Mobility Limitation and Changes in Personal Goals among Older Women

Milla Saajanaho MSc, Anne Viljanen PhD, Sanna Read PhD, Johanna Eronen MSc, Jaakko Kaprio MD, PhD, Marja Jylhää MD, PhD, Taina Rantanen PhD

Author Note

Milla Saajanaho, Anne Viljanen, Johanna Eronen and Taina Rantanen, Gerontology Research Center*, Department of Health Sciences, University of Jyväskylä, 40014 Jyväskylä, Finland; Sanna Read, Department of Population Health, London School of Hygiene and Tropical Medicine, London WC1E 7HT, UK; Jaakko Kaprio, Department of Public Health and Institute for Molecular Medicine, University of Helsinki, 00014 Helsinki, Finland & Department of Mental Health and Substance Abuse Services, National Institute for Health and Welfare, 00271 Helsinki, Finland; Marja Jylhä, Gerontology Research Center*, School of Health Sciences, University of Tampere, 33014 Tampere, Finland.

*Gerontology Research Center is a joint effort between the University of Jyväskylä and the University of Tampere.

Corresponding concerning this article should be addressed to Milla Saajanaho, Gerontology Research Center, Department of Health Sciences, PO Box 35, 40014 Jyväskylä, Finland, Phone +358 40 805 4536, E-mail: milla.saajanaho@jyu.fi
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Abstract

Objectives. Several theoretical viewpoints suggest that older adults need to modify their personal goals in the face of functional decline. The aim of this study was to investigate longitudinally the association of mobility limitation with changes in personal goals among older women.

Methods. Eight-year follow-up of 205 women aged 66 to 78 years at baseline.

Results. Health-related goals were the most common at both measurements. Goals related to independent living almost doubled and goals related to exercise and to cultural activities substantially decreased during the follow-up. Higher age decreased the likelihood for engaging in new goals related to cultural activities and disengaging from goals related to independent living. Women who had developed mobility limitation during the follow-up were less likely to engage in new goals related to exercise and more likely to disengage from goals related to cultural activities and to health and functioning.

Discussion. The results of this study support theories suggesting that age-related losses such as mobility limitation may result in older adults modifying or disengaging from personal goals.

Keywords: Personal goals, aging, goal modification, goal disengagement, mobility
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Introduction

Personal goals are defined as states that people strive to achieve or avoid in the future (Freund & Riediger, 2006). During the life course, people constantly select and reselect personal goals, act towards attaining selected goals, and abandon goals if they become futile or too difficult to reach (Heckhausen, Wrosch & Schulz, 2010). Personal goals in old age have been rarely studied, and thus far the most often reported goals relate to health, close relationships, basic daily activities, independent living and leisure time activities (Lapierre, Bouffard, & Bastin, 1992-93; Lawton, Moss, Winter, & Hoffmann, 2002; Saajanaho et al., 2013). Compared to younger adults, older people focus more on striving for maintenance or avoiding losses instead of aiming for growth (Ebner, Freund, & Baltes, 2006), and more often have goals that support each other, and thus are easier to achieve simultaneously (Riediger, Freund, & Baltes, 2005). Older adults usually have fewer goals than younger people, and they often focus on goals related to the present or near future rather than longer time spans (Penningroth & Scott, 2012). Some gender differences have also been found in personal goals among older adults. Compared to men, women seem to focus more on goals related to close relationships (Holahan & Chapman, 2002; Lapierre et al., 1992-93), safety, independent living (Rapkin & Fischer, 1992), and basic daily activities, such as personal care and eating/meal preparation (Lawton et al., 2002). Overall, personal goals reflect, for example, personality (McAdams & Olson, 2010), life situation, and environmental features (Little, 2007), and thus, also older adults have diverse and individualized personal goals (Smith & Freund, 2002).

Based on cross-sectional studies, goals related to intellectual (e.g. reading, education) and recreational activities (e.g. culture, exercise, travel), and home planning goals (e.g. moving, arranging the home) are less common among the oldest old people (e.g. Lapierre et
al., 1992-93; Lawton et al., 2002). Health-related goals (Frazier, Johnson, Gonzalez, & Kafka, 2002), especially health maintenance goals (Lapierre et al., 1992-93), are more common among the oldest age groups. In addition, older old people have more often goals related to safe environment, independent living (Rapkin & Fischer, 1992), and spiritual activities reflecting philosophy of life and religious conviction (Lawton et al., 2002), as well as goals related to dying (Lapierre et al., 1992-93), than younger older people. Goals relating to other people are common throughout old age (Lawton et al., 2002), in terms that goals for meeting other people are more emphasized among the oldest of the population, while altruistic goals (e.g. helping others) are more common among the young-old people (Lapierre et al., 1992-93).

Only limited knowledge exists on longitudinal changes in personal goals in old age. Smith and Freund (2002) studied changes in older adults’ possible selves in a four-year follow-up. Possible selves are hoped-for and feared images of future self, which reflect similar contents and strivings as personal goals. The study found that possible selves related to personal characteristics, including hopes and fears concerning personality dispositions, and life events (e.g. moving, death), were more often abandoned than adopted in old age. During the follow-up, health-related possible selves (e.g. maintaining current health status), were more often adopted than abandoned, while possible selves concerning social relationships and personal interests and activities were rather stable. For the possible hoped-for selves maintenance orientation, reflecting the desire to maintain things as they are, became more common over the follow-up, while an orientation towards improving the current situation remained rather stable over years. The desire to avoid feared possible selves (e.g. an illness) remained stable over years.

Besides age, diminished resources are seen as a factor that typically affects older adults’ goal setting (Ebner et al., 2006). There are three commonly accepted theories that
address goal modification due to age-related losses in resources: the model of selective
optimization with compensation (SOC) by Baltes and Baltes (1990), the dual-process model
of developmental regulation by Brandstätter (e.g. 2009), and the motivational theory of life-
span development by Heckhausen et al. (2010). The SOC-model states that older adults need
to use coping methods to adapt to the age-related changes in, for example, biological, mental,
and societal resources. Selection is conceptualized as setting personal goals that are
compatible with the resources one has, and modifying existing goals when needed (Freund &
Riediger, 2006). With selection, older adults can focus on the most important goals, and
optimize their efforts in striving for them. When needed, compensation, such as assistive
devices, is used to enable goal pursuit in the selected areas of life (Baltes & Baltes, 1990).

The dual-process model of developmental regulation describes two coping methods
that people use to control their life. Assimilation (i.e. tenacious goal pursuit) includes efforts
to modify life situation and action for attaining current personal goals. However, when
resources diminish, for example with aging, and attaining current goals seems too difficult,
people may use accommodation (i.e. flexible goal adjustment); that is, modify goals and
expectations to be compatible with diminished resources (Brandstätter, 2009). A similar
approach is included in the motivational theory of life-span development with primary and
secondary control. Primary control refers to efforts targeted to reaching one’s goals by
modifying environment (cf. assimilation), and secondary control to inner motivational
processes such as goal modification and reconsideration of previous expectations and values
(cf. accommodation). As both the SOC-model and the dual-process model, this theory also
suggests that the need for goal modification (secondary control) is emphasized in old age due
to resource deficits (Heckhausen et al., 2010).

Although the need for older adults to modify their personal goals has a strong
theoretical foundation, and the benefits of goal modification for well-being are recognized
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*(e.g. Boerner, 2004; Dunne, Wrosch, & Miller, 2011; Garnefski et al., 2009), empirical evidence on changes in older adults’ personal goals is scarce and typically based on cross-sectional data (e.g. Penningroth & Scott, 2012; Salmela-Aro, Nurmi, Aro, Poppius, & Riste, 1993). In the current study, we addressed the issue by examining the changes in older women’s personal goals, and the associations of these changes with mobility limitation. Mobility, defined as the ability to move around independently, often declines with aging (Rantakokko, Mänty, & Rantanen, 2013). Besides walking difficulties, mobility limitation may refer to problems driving a car or using public transportation, all of which are important elements for participation in out-of-home activities (Satariano et al., 2012). It can therefore be presumed that mobility limitation may be a powerful influence on personal goal setting and goal modification in old age.

In the current study, we aimed to study the changes in older women’s personal goals in an eight-year follow-up, and the associations of these changes with age and mobility limitation. The above discussed theories lead to similar hypotheses on the associations of age and mobility limitation with changes in personal goals. We predicted that the participants would have abandoned some of their personal goals (cf. selection/goal accommodation/secondary control), and that mobility limitation would be associated with goal disengagement. Based on earlier literature on older adults’ personal goals (Lawton et al., 2002; Rapkin & Fischer, 1992), we hypothesized that older women would disengage especially from goals related to different activities, but that there would be more stability in goals related to close relationships. In addition, we predicted that selection would lead to an increase in goals that are more prioritized with increasing age or with mobility limitation, most likely related to health and independent living.

**Methods**

**Participants**
The present data were drawn from the Finnish Twin Study on Aging (FITSA). The recruitment procedure of the study is described in detail elsewhere (Pajala et al., 2006). The first FITSA data wave was implemented in 2000-2001. The baseline of the present analysis is the time of the second data wave in 2003-2004, when 308 women participated in a structured interview based on the Personal Project Analysis inventory (Little 1983), which was added to the study protocol at that time. Only women who were able to travel to the research center for the interview were included in this study. Between baseline and the follow-up in 2011, 25 of the participants had died, 15 were unable or unwilling to participate and six could not be reached. A further 57 women did not answer the postal questionnaire on personal goals at follow-up and therefore could not be included in the study. This left 205 women, who had reported their personal goals both at baseline and follow-up, and hence were included in the study. Participants were slightly younger at baseline (70.9 vs. 71.8 yrs., p=.05) than non-participants. There were no differences between the participants and non-participants in self-rated health, mobility limitations or personal goals at baseline.

This study was approved by the Ethics Committee of the Central Finland Health Care District and the participants gave their written informed consent.

**Procedure**

**Personal goals.** Personal Project Analysis (PPA), developed by Brian R. Little (1983), was used to study the content of the participants’ personal goals. In PPA, people are asked to generate a listing of as many personal projects/goals they can think of, and rate a subset of them on a set of dimensions (e.g. goal importance, control). The PPA was developed as a tool to assess human personality in a social-ecological context, and as such, may be used to address, for example, the contextual and personal features affecting goal setting (Little 2007; Little & Gee, 2007). For the FITSA study, PPA was revised for the purpose of studying older people, and only the content of four current personal goals was
asked. At baseline, PPA was conducted via interview, with the following question: “People have many kinds of things that they think about, hope for and hope to accomplish. Think about the kinds of personal goals/projects you have in your life at the moment. The goals/projects may be related to any life domain, such as hobbies, work, family, friends or yourself.” In the follow-up postal questionnaire, the question on personal goals was introduced with similar wording. Personal goals were classified on the basis of their content by two trained assessors independently. The percentage rate of agreement between the two assessors was 91% at baseline, as reported by Salmela-Aro et al. (2009), and 84% at follow-up. Discrepancies between the assessors were discussed until total agreement was achieved. The same coding scheme with 19 personal goal categories was used on both occasions, and each personal goal category was coded on a dichotomous scale. The coding scheme was developed by Salmela-Aro et al. (2009) to be similar with schemes used in earlier studies (Little, 1983). A person could have goals in several different categories or several goals in one category. The coding scheme and examples of personal goals in each category are presented in Table 1.

Age. Participants’ date of birth was derived from a national register.

Mobility limitations. Self-reported difficulties in walking two kilometers was asked with the question “Do you have difficulties in walking two kilometers due to your health or physical condition?”, difficulties in climbing stairs was asked with the question “Do you have difficulties in climbing one flight of stairs due to your health or physical condition?” and difficulties in using public transportation with the question “Do you have difficulties in using public transportation due to your health or physical condition?”. The response options for all of these questions were no difficulties, minor difficulties, major difficulties and need help/cannot. For further analysis, the answers were dichotomized (having at least minor
difficulties vs. having no difficulties). Because 52% of the participants had never had a driver’s license, we were not able to include driving as one of the mobility indicators.

**Descriptive characteristics.** We used structured questionnaires at both baseline and follow-up. The information used as descriptive characteristics included years of education, depressive symptoms (Center for Epidemiologic Studies Depression Scale, CES-D Score; Radloff 1977), marital status (single, married, remarried, cohabiting, divorced or separated and widowed; dichotomized as in a relationship vs. not in a relationship), perceived economic situation (self-reported with the options very good, good, moderate, poor, very poor; dichotomized as good or very good vs. moderate, poor or very poor) and self-rated health (very good, good, moderate, poor, very poor; categorized as good or very good, moderate and poor or very poor).

**Data analysis**

The descriptive characteristics for all the participants are reported as mean values and standard deviations for continuous variables and percentage distributions for categorical variables. The McNemar test was used to test the significance of changes in the total proportions of participants reporting goals in each category between baseline and follow-up. Logistic regression models were used to analyze the association between age, mobility limitations and changes in personal goals. For each personal goal category, we first formulated univariate logistic regression models for age and each baseline mobility indicator. In the univariate models each variable was entered in the model separately, first with “engaged in a goal” as the dependent variable (compared to “did not engage in a goal”). When predicting engagement in a goal, the model only included participants who did not have any goals in the goal category at baseline. Each variable was then entered in the model with “disengaged from goals” as the dependent variable (compared to “maintained goals”). When predicting disengagement from goals, the model included only participants who had at
least one goal in the goal category at baseline. Finally, we formulated similar univariate models for each goal category, using the follow-up mobility indicators and adjusting these models with the baseline information of the same mobility indicators. Due to small number of participants, we were not able to adjust the models for other baseline characteristics.

The twin sample was treated as a set of individuals and the statistical interdependency between twins was taken into account in all the analyses. Stata statistical software (version 13.0) was used in the analysis (StataCorp., College Station, TX).

Results

Participant characteristics. The characteristics for the participants are presented in Table 2. Mean age was 70.9 (SD 3.2) at baseline and 78.9 (SD 3.3) at follow-up. Most rated their health as moderate, good or very good at both baseline and follow-up. At baseline, 33% of the participants reported having difficulties in walking two kilometers, 27% in climbing stairs and 11% in using public transportation. Of those with no difficulties in the respective mobility indicator at baseline, 42% developed difficulties in walking two kilometers, 29% in climbing stairs and 27% in using public transportation during the follow-up (Table 3).

The frequencies of participants reporting at least one goal in a goal category at baseline and at follow-up are presented in Table 1. The most common goal category at both measurement points was health and functioning, followed by exercise, close relationships and cultural activities at baseline, and independent living and close relationships at follow-up. At both times, only three participants did not mention a single goal. Only five most common goal categories were included in the current analysis, as for the other goal categories (others’ health, busying oneself around the home, social activities, memory, care of others, travel, living with symptoms/illness, diet/outlook, self-development, economic issues, politics, religion, work, and other) further meaningful analysis could not be carried out, because they
were reported by less than 40 participants both at baseline and follow-up, which did not allow additional categorizations.

Changes in personal goals. Of the 152 people (74%) who reported goals related to health and functioning at baseline 57 (38%, p=.011) disengaged from this goal, while 32 (60%) of those who did not report this goal at baseline reported it at follow-up. The proportion of women reporting goals related to exercise and cultural activities decreased by 80% at follow-up (p<.001), which was accompanied by only few people engaging in these goals over the years (6% for exercise and 9% for cultural activities). Disengagement from goals related to close relationships and to independent living was also relatively common (70% and 53%, respectively), although, during the follow-up years, these goals were commonly adopted (27% and 40%, respectively). Independent living was the only goal category to show a significant increase in the total proportion of women reporting them (p<.001) (Table 4).

The association of age with changes in personal goals. The results of all the logistic regression analyses predicting engagement in and disengagement from personal goals in relation to age and to changes in mobility limitations are provided as supplementary data and only statistically significant associations are reported below. Higher age decreased the likelihood for engaging in new goals related to cultural activities over time (OR 0.74, 95% CI 0.62 – 0.87) and disengaging from goals related to independent living (OR 0.81, 95% CI 0.66 – 0.99).

The association of mobility limitation with changes in personal goals. Incident difficulties in walking two kilometers significantly decreased the odds for engaging in new goals related to exercise (OR 0.05, 95% CI 0.01 – 0.39) and increased the odds for disengaging from goals related to cultural activities (OR 7.68, 95% CI 1.26 – 46.74). Incident difficulties in climbing stairs increased the odds for disengaging from goals related to health
and functioning (OR 2.46, 95% CI 1.10 – 5.51), and incident difficulties in using public
transportation increased the odds for engaging in a new goal related to close relationships
(OR 2.79, 95% CI 1.18 – 6.58). In addition, we noticed a trend for incident difficulties in
walking two kilometers to decrease the odds for engaging in goals related to cultural
activities and for disengaging from goals related to independent living. Incident difficulties in
climbing stairs seemed to decrease the odds for engaging in goals related to exercise and to
cultural activities and to increase the odds for disengaging from goals related to cultural
activities.

Discussion
Based on three acknowledged theories – the model of selective optimization with
compensation (SOC; Baltes & Baltes, 1990), the dual-process model of developmental
regulation (Brandstädter, 2009), and the motivational theory of life-span development
(Heckhausen et al., 2010), we predicted to find associations between mobility limitation and
changes in personal goals among older women. As predicted, the results of this study suggest
that mobility limitation may restrain older adults from engaging in goals related to exercise
and lead to disengaging from goals related to cultural activities. The decrease in the total
proportion of women reporting goals related to exercise and cultural activities during the
follow-up was substantial, as was the increase in women reporting goals related to
independent living. Higher age was associated with not engaging in goals related to cultural
activities and with maintaining goals related to independent living. Health and relationship
goals were both abandoned and adopted over years, but remained rather common throughout
the follow-up time.

In line with our hypotheses, the current results showed that walking difficulties may
inhibit older people from setting goals for activities such as exercise or cultural interests, and
lead to goal disengagement. Women who had developed mobility limitation during the
follow-up were less likely to engage in new goals related to exercise and more likely to
disengage from goals related to cultural activities. This finding supports the theoretical
reasoning that age-related losses may lead to goal modification (Baltes & Baltes, 1990;
Brandtstädter, 2009; Heckhausen et al., 2010). The result is in line with previous studies
indicating that when functioning declines, people focus on more pressing things in life
instead of leisure time activities (Schindler & Staudinger, 2008), and select activities that are
compatible with their current capabilities (Rush, Watts, & Stanbury, 2011). Participating in
many cultural and exercise activities requires the ability to access outdoors (Rantanen, 2013),
which makes it understandable that walking difficulties may lead to not striving for goals
requiring venturing outside the home. With increasing age, disengagement from goals related
to leisure-time activities seems to be common among older women, as the decrease in the
proportion of women reporting goals related to exercise and cultural activities from baseline
to follow-up was substantial. This result was expected, and similar to previous cross-sectional
research indicating fewer activity goals with increasing age among older adults (Lawton et
al., 2002). As predicted by the dual-process model of developmental regulation, people often
abandon goals that seem too difficult to attain (Brandtstädter 2009), and it is reasonable to
assume that, during the follow-up, these women experienced obstacles in realizing some of
their goals. The result is also in line with disengagement theory, which suggests that aging
leads to withdrawal from social participation, which is presumed to be an inevitable, but
adaptive process related to aging (Cumming & Henry, 1961). Also abandoning goals that are
too difficult to reach is considered as an important strategy for adjusting to age-related
changes (Freund, Nikitin, & Ritter, 2009), and the ability to modify goals when encountering
functional decline is an adaptive process, which may promote the well-being of older adults
(Baltes & Baltes 1990; Brandtstädter 2009; Freund et al., 2009).
We expected to see an increase in goals related to health and independent living during the follow-up, but independent living was the only goal category that became more frequent over time. This might be due to increasing age, which causes the need to ponder the choices one has as functioning declines. Striving for independent living has previously been associated with higher age (Rapkin & Fischer, 1992), as was also the case in the present study, where higher age decreased the odds for disengaging from these goals. It seems that with age, independent living is prioritized, and older people select more goals related to it, as we hypothesized based on the SOC-model. Maintaining an independent lifestyle is even more important for older adults in present-day society, when families and public services do not support them as strongly as before (Denton et al. 2004). Problems related to institutional care are often discussed in the media, which may also induce hopes on being able to live on at home for as long as possible.

Previously health-related goals have been found to be more common among the oldest age groups (Frazier et al., 2002), whereas in the present study, against our hypothesis, the prevalence of health-related goals among older women diminished over time, while nevertheless remaining high. The high prevalence of health-related goals among older adults is typically explained by the fact that on the one hand health declines in old age, and on the other hand, that sufficient health is a prerequisite for pursuing other meaningful life goals (Boersma, Maes, & Joekes, 2005; Martos, Thege, & Kopp, 2010). As health-related goals may relate more to rumination over health issues than striving for better health (Smith & Freund, 2002), their high prevalence in older adults may also result simply from health problems (Frazier et al., 2002). However, in the present study, difficulties in climbing stairs at follow-up increased the likelihood for disengaging from health-related goals during the study period. The women who reported health-related goals at follow-up also rated their health as good or very good more often than women who did not report these goals (31% vs.
18%, p=.053). It may be that more emphasis is placed on health-related goals when no severe
health problems are present and striving to maintain the current health status is perceived as
satisfactory.

Difficulties in using public transportation increased the odds for engaging in goals
related to close relationships. This may indicate a tendency for striving towards closeness
when encountering difficulties, such as functional problems. The finding that relationship
goals were rather common at both measurements is in line with our hypothesis, and with the
socioemotional selectivity theory, which states that in old age, when the future time
perspective is limited, people typically strive for emotional closeness (Fung & Carstensen,
2006). This also emerged in a study by Lawton et al. (2002), where family and friends were
the most common goal categories among older people. Helping other people is important for
many older adults (Beadle, Sheehan, Dahlben, & Gutchess, 2013), which may contribute to
setting goals related to close relationships. Striving for intimacy is central across the whole
human life span, and the importance of emotionally meaningful relationships does not vanish
with aging (Sheldon & Kasser, 2001) or with health problems. The present results support
this, as mobility limitations did not lead to disengagement from relationship goals.

Maintaining relationship goals even with functional decline is important, as especially
relations with friends are important for the well-being of older people (Huxhold, Miche, &
Schüz, 2014).

The strengths of this study include a longitudinal design, which provided new
information on changes in older women’s personal goals. Age-related losses have been
suggested to affect older people’s goal setting in three acknowledged theories (Baltes &
Baltes, 1990; Brandstädter 2009; Heckhausen et al., 2010), but there has been little empirical
evidence on the changes in personal goals in old age. The present study supports these
theories, as we found that goal disengagement occurs with aging and may be related to
problems in functioning. We were able to detect associations between mobility limitation and changes in personal goals, despite the fact that our sample consisted of high-functioning older women of whom only a few reported more than minor difficulties in walking two kilometers, that is, in a relatively demanding mobility task (Rantanen, 2013). This shows that even minor mobility limitation may affect older women’s goal setting and prevent striving for exercise or cultural activities. The measures of mobility limitations in this study were self-reported, and thus, reflect the participants’ own evaluation of their problems in a specific environment and in activities that are relevant for them (Rantanen, 2013).

This study has also some important limitations. Due to the FITSA study protocol, the participants represent the healthiest women in their age group, as they needed to be able to travel to the research center, even from a considerable distance. Although twins do not differ from other members of the population in e.g. health habits or mortality, they may benefit from having support from a twin sibling throughout their lives. The fact that the present participants were twins was statistically taken into account in the analysis. This study addressed only the personal goals of older women, which restricts the generalization of the results to the whole aging population. Older women’s goals often differ from men’s goals (e.g. Rapkin & Fischer, 1992), and women also have more mobility limitations from midlife to old age (Rohlfsen, & Kronenfeld, 2014), which may have affected the results of this study. The Personal Project Analysis inventory was conducted as a face-to-face interview at baseline and via a postal questionnaire at follow-up, which may have had an effect on the participants’ answers. Some participants did not answer the question at follow-up, which may be due to it being the last question on a long postal questionnaire. Even though the same coding scheme was used, the personal goals reported by the participants were classified at baseline and follow-up by different raters, which may have caused some differences in the content of each goal category. The goal category of health and functioning was large and
included all kinds of goals related to health, whether they indicated striving for better health, avoiding illnesses or just maintaining health as it is. Some intuitively important goals were reported by so few people that we were unable to analyze them in a meaningful way, and, consequently, only five goal categories were analyzed relative to mobility limitations. Due to small number of participants in the current analysis, we need to confirm the results in the future with a larger study population. Further, the follow-up time of this study was perhaps too long, and does not allow us to make conclusions about the cause and effect relationships between mobility limitation and changes in personal goals.

The personal goals of older adults reflect the most pressing concerns in old age, and most often include striving for health. Based on this study it seems that, in old age, developing mobility limitation may result in goal disengagement and not engaging in new goals related to activities such as exercise. Goal accommodation is associated with well-being in old age (Heyl, Wahl, & Mollenkopf, 2007), and by modifying their personal goals older adults may continue striving for meaningful activities even in the face of functional decline. Physical functioning has a strong effect on well-being in old age (Windsor, Burns, & Byles, 2013), but the ability to modify personal goals may adjust the negative effect of poor functioning, and improve older people’s well-being (e.g. Boerner, 2004). By decreasing motivation, declining health may also result in less activity participation (Hess, Emery, & Neupert, 2012), but with other helpful resources, and with more tenacious goal pursuit (Heyl et al., 2007) older adults could continue participation in chosen activities, even with mobility limitation (Morrow-Howell et al., 2014). This is important, as striving for engagement in e.g. exercise goals might help prevent further mobility decline (Rantanen, 2013). In line with the United Nations Principles for Older People, the policy framework of World Health Organization states that active aging may be enhanced by diverse participation in community life, which enables self-fulfillment in activities according to a person’s capabilities and
preferences (World Health Organization, 2002). This may be reached when older adults are
supported in striving for meaningful personal goals throughout their later years of life.

Declaration of Conflicting Interests

The authors declare that there are no potential conflicts of interest with respect to the
research, authorship, and/or publication of this article.

Funding

This research was supported by the University of Jyväskylä. The Finnish Twin Study
on Aging has been financially supported by the Academy of Finland and the Finnish Ministry
of Education and Culture. AV was supported by the Academy of Finland (grant 251723). JE
was funded by the Finnish Cultural Foundation, Central Finland Regional Fund and the
Finnish Ministry of Education and Culture. JK was supported by the Academy of Finland
(grants 265240 and 263278).

Word Count: 4954
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Table 1. The coding scheme for personal goals, frequencies of women reporting at least one goal in a category both at baseline and follow-up, and examples of the content of goal categories (n=205)

<table>
<thead>
<tr>
<th>Personal goal category</th>
<th>% (n) endorsing</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>At baseline</td>
<td>At follow-up</td>
</tr>
<tr>
<td>Health and functioning</td>
<td>74 (152)</td>
<td>62 (127)</td>
</tr>
<tr>
<td></td>
<td>“To stay healthy” / “To maintain functioning”</td>
<td></td>
</tr>
<tr>
<td>Exercise</td>
<td>38 (78)</td>
<td>11 (22)</td>
</tr>
<tr>
<td></td>
<td>“To exercise more”</td>
<td></td>
</tr>
<tr>
<td>Close relationships</td>
<td>36 (74)</td>
<td>28 (57)</td>
</tr>
<tr>
<td></td>
<td>“Good relationships with close ones”</td>
<td></td>
</tr>
<tr>
<td>Cultural activities</td>
<td>28 (57)</td>
<td>12 (24)</td>
</tr>
<tr>
<td></td>
<td>“To learn to play an instrument”</td>
<td></td>
</tr>
<tr>
<td>Independent living</td>
<td>24 (49)</td>
<td>42 (86)</td>
</tr>
<tr>
<td></td>
<td>“To be able to live at home as long as possible”</td>
<td></td>
</tr>
<tr>
<td>Others’ health</td>
<td>17 (34)</td>
<td>11 (23)</td>
</tr>
<tr>
<td></td>
<td>“That children and their families would stay healthy”</td>
<td></td>
</tr>
<tr>
<td>Busying oneself around the home</td>
<td>14 (29)</td>
<td>10 (21)</td>
</tr>
<tr>
<td></td>
<td>“Do the housework without help from others”</td>
<td></td>
</tr>
<tr>
<td>Social activities</td>
<td>13 (27)</td>
<td>3 (6)</td>
</tr>
<tr>
<td></td>
<td>“To participate in activities at the sheltered home”</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>7 (14)</td>
<td>9 (19)</td>
</tr>
<tr>
<td></td>
<td>“Not to lose memory”</td>
<td></td>
</tr>
<tr>
<td>Care of others</td>
<td>6 (12)</td>
<td>3 (7)</td>
</tr>
<tr>
<td></td>
<td>“To be able to take care of my husband”</td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td>6 (13)</td>
<td>5 (11)</td>
</tr>
<tr>
<td></td>
<td>“Travelling to some place warm”</td>
<td></td>
</tr>
<tr>
<td>Living with symptoms/illness</td>
<td>6 (12)</td>
<td>9 (18)</td>
</tr>
<tr>
<td></td>
<td>“To get a hearing aid”</td>
<td></td>
</tr>
<tr>
<td>Diet/outlook</td>
<td>5 (11)</td>
<td>2 (3)</td>
</tr>
<tr>
<td></td>
<td>“To lose a little weight”</td>
<td></td>
</tr>
<tr>
<td>Self-development</td>
<td>4 (8)</td>
<td>6 (13)</td>
</tr>
<tr>
<td></td>
<td>“To be able to give up things when needed”</td>
<td></td>
</tr>
<tr>
<td>Economic issues</td>
<td>3 (6)</td>
<td>4 (9)</td>
</tr>
<tr>
<td></td>
<td>“To improve own economic situation”</td>
<td></td>
</tr>
<tr>
<td>Politics</td>
<td>1 (2)</td>
<td>5 (11)</td>
</tr>
<tr>
<td></td>
<td>“Peace”</td>
<td></td>
</tr>
<tr>
<td>Religion</td>
<td>1(2)</td>
<td>2 (3)</td>
</tr>
<tr>
<td></td>
<td>“To believe in Jesus”</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>1 (2)</td>
<td>2 (3)</td>
</tr>
<tr>
<td></td>
<td>“Christmas preparations”</td>
<td></td>
</tr>
<tr>
<td>Work</td>
<td>0 (0)</td>
<td>0 (0)</td>
</tr>
<tr>
<td></td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

MOBILITY LIMITATION AND PERSONAL GOALS
Table 2: Descriptive statistics of the study participants at baseline and follow-up (n=205)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mean, SD)</td>
<td>(mean, SD)</td>
</tr>
<tr>
<td>Age</td>
<td>70.9 (3.2)</td>
<td>78.9 (3.3)</td>
</tr>
<tr>
<td>Years of education</td>
<td>9.0 (3.2)</td>
<td>Not asked</td>
</tr>
<tr>
<td>CES-D score</td>
<td>11.1 (7.2)</td>
<td>14.1 (7.6)</td>
</tr>
<tr>
<td>In a relationship</td>
<td>47</td>
<td>38</td>
</tr>
<tr>
<td>Good economic situation</td>
<td>27</td>
<td>30</td>
</tr>
<tr>
<td>Self-rated health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good or very good</td>
<td>31</td>
<td>29</td>
</tr>
<tr>
<td>Moderate</td>
<td>65</td>
<td>64</td>
</tr>
<tr>
<td>Bad or very bad</td>
<td>4</td>
<td>7</td>
</tr>
</tbody>
</table>

Note. Years of education, n=202; Economic situation and in a relationship at follow-up, n=202; Self-rated health at follow-up, n=203; CES-D at follow-up, n=194.
### Table 3: Frequencies of mobility limitation among older women at baseline and follow-up (n=205)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Baseline No difficulties</th>
<th>Baseline Difficulties</th>
<th>Follow-up No difficulties</th>
<th>Follow-up Difficulties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking 2 km</td>
<td>67 (137)</td>
<td>33 (68)</td>
<td>58 (76)*</td>
<td>9 (6)#</td>
</tr>
<tr>
<td>Climbing stairs</td>
<td>73 (149)</td>
<td>27 (56)</td>
<td>71 (103)*</td>
<td>26 (14)#</td>
</tr>
<tr>
<td>Using public transportation</td>
<td>89 (183)</td>
<td>11 (22)</td>
<td>73 (130)*</td>
<td>27 (47)#</td>
</tr>
</tbody>
</table>

* Proportion of those with no difficulties at baseline

# Proportion of those with difficulties at baseline

Note. Walking 2 km at follow-up, n=200; Climbing stairs at follow-up and using public transportation at follow-up, n=199.
### Table 4: Frequencies of older women’s personal goals at baseline, at follow-up and by changes in personal goals (n=205)

<table>
<thead>
<tr>
<th>Personal goal category</th>
<th>Baseline % (n)</th>
<th>Follow-up % (n)</th>
<th>Engaged in a goal % (n)*</th>
<th>Did not engage in a goal % (n)*</th>
<th>Disengaged from goals % (n)#</th>
<th>Maintained goals % (n)#</th>
<th>p-value¤</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health and functioning</td>
<td>74 (152)</td>
<td>62 (127)</td>
<td>60 (32)</td>
<td>40 (21)</td>
<td>38 (57)</td>
<td>63 (95)</td>
<td>.011</td>
</tr>
<tr>
<td>Exercise</td>
<td>38 (78)</td>
<td>11 (22)</td>
<td>6 (8)</td>
<td>94 (119)</td>
<td>82 (64)</td>
<td>18 (14)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Close relationships</td>
<td>36 (74)</td>
<td>28 (57)</td>
<td>27 (35)</td>
<td>73 (96)</td>
<td>70 (52)</td>
<td>30 (22)</td>
<td>.086</td>
</tr>
<tr>
<td>Cultural activities</td>
<td>28 (57)</td>
<td>12 (24)</td>
<td>9 (13)</td>
<td>91 (135)</td>
<td>81 (46)</td>
<td>19 (11)</td>
<td>&lt;.001</td>
</tr>
<tr>
<td>Independent living</td>
<td>24 (49)</td>
<td>42 (86)</td>
<td>40 (63)</td>
<td>60 (93)</td>
<td>53 (26)</td>
<td>47 (23)</td>
<td>&lt;.001</td>
</tr>
</tbody>
</table>

* Percentage of those who did not have goals in the category at baseline

# Percentage of those who had at least one goal in the category at baseline

¤ McNemar test for the significance of change in the total proportion of participants reporting personal goals in a category

Note: Engaged in a goal, meaning those who did not have a goal in the category at baseline but did have at least one goal in the category at follow-up; did not engage in a goal, meaning those who did not have a goal in the category at either baseline or follow-up; disengaged from goals, meaning those who had a goal in the category at baseline but did not at follow-up; maintained goals, meaning those who had a goal in the category at both baseline and follow-up.