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In press, forthcoming or conditionally accepted for publication

Bloem, B.A., Van Tilburg, T.G., & Thomése, G.C.F. (accepted). Starting relationships with neighbors after a move later in life: An exploratory study. *Journal of Housing for the Elderly*.  
[www.tandfonline.com/toc/wjhe20/current](http://www.tandfonline.com/toc/wjhe20/current)

We examined eight personal and contextual conditions associated with starting new relationships with neighbors after short and long-distance moves. A total of 625 Dutch movers and 1,936 non-movers (57-93 years old) were selected from the Longitudinal Aging Study Amsterdam. OLS linear regression analyses showed that short-distance movers mainly started relationships with neighbors when they did volunteer work. Long-distance movers who moved to rural areas and felt safe in their new neighborhood, or moved to areas with lower priced homes also started new relationships with neighbors. Contextual conditions appear to play a larger role than personal ones, especially after long-distance moves.

Tolkacheva, N., Broese van Groenou, M.I., & Van Tilburg, T.G. (accepted). Sibling similarities and sharing the care of older parents. *Journal of Family Issues*.

<http://jfi.sagepub.com/content/early/recent> ISSN 0192-513X (print) 1552-5481 (electronic)

This study examines the degree to which the sharing of parental care, as indicated by the amount of children participating in caregiving and by equality in caregiving intensity, is associated with similarities among sibling characteristics. A selected sample of 186 parents with at least two children was asked to report on the assistance provided by all their children. Results reveal that in most families the care was shared between children. However, there was a large variation in caregiving intensity. Multivariate regression analyses show that similarities in employment status among children predicted a higher chance that the care was shared and a higher degree of equality in caregiving intensity among siblings. Similarities in partner status and emotional support exchanges with parents were associated with the equality among siblings in caregiving intensity. Results from this study suggest that siblings with similar characteristics and opportunities are more likely to share care (equally).

Online first

Cozijnsen, R., Stevens, N.L., & Van Tilburg, T.G. (2012). The trend in sport participation among Dutch retirees, 1983-2007. *Ageing & Society*. <http://dx.doi.org/10.1017/S0144686X12000189> ISSN 0144-686X

This paper investigates the trend in sport participation among retirees between 1983 and 2007. Sport participation is important for retirees because of its health benefits and the opportunities it offers for social interaction. Factors that influence sport participation such as educational level, physical limitations, and occupational background have changed during the last decades, possibly accounting for changes in sport participation. Data are from the Amenities and Services Utilization Survey (AVO), a nationally representative Dutch survey with seven observations between 1983 and 2007. The trend in sport involvement, sports club membership, and competition was investigated in a sample of 2,497 male and 1,559 female retirees aged 58-67 years. Increases in participation were observed in sport involvement and sports club membership. This trend can partially be explained by increases in educational level, decreases in the number of retirees with physical limitations, and in those retiring from sedentary jobs. Yet, sport participation seems to

have increased for all retirees, regardless of their socio-economic background and health status. Alternative explanations for the observed trend are discussed.

Geurts, T., Van Tilburg, T.G., & Poortman, A.-R. (2011). The grandparent - grandchild relationship in childhood and adulthood: A matter of continuation? *Personal Relationships*.

<http://dx.doi.org/10.1111/j.1475-6811.2011.01354.x> ISSN 1350-4126

This study examined whether grandparents perceive adult grandchildren as frequent and important contacts by analyzing network membership. It additionally examined whether this network membership is related to relationship intensity during childhood. Network membership was assessed in 1992 (397 grandparents, 1,594 adult grandchildren) and at the 2005–2006 follow-up (155 grandparents, 429 adult grandchildren) from the Longitudinal Aging Study Amsterdam. Relationship intensity during childhood was assessed in 1992. One out of 4 grandparents identified at least 1 adult grandchild in their personal network. Adult grandchildren who had an intense relationship with their grandparents during childhood were more often in grandparents' network than others. An intense relationship during childhood promotes continuation of the relationship into adulthood and might contribute to grandparent's support potential.

2012

Broese van Groenou, M.I., & Van Tilburg, T.G. (2012). Six-year follow-up on volunteering in later life: A cohort comparison in the Netherlands. *European Sociological Review*, 28, 1-11.

<http://dx.doi.org/10.1093/esr/jcq043> ISSN 0266-7215

Given population aging and the productive potential of older people, it is important to examine how individual and societal developments affect social engagement in later life. The study aimed to disentangle the effects of age, aging, and cohort on volunteering among the young old. Using data from the Longitudinal Aging Study Amsterdam, we examined volunteering rates of young olds (N=2,745) in two decades: those being 55-69 years old in 1992 and their age-peers in 2002. Six-year follow-up on both cohorts allowed for cohort-sequential analyses. Multilevel logistic regression analyses revealed that (i) regardless of age, the 2002 cohort volunteered more often than the 1992 cohort, (ii) in 6 years' time volunteering increased for the 55- to 59-year-olds, stabilized among the 60- to 64-year-olds, and declined among the 65- to 69-year-olds, and (iii) these age-differential changes were observed in both cohorts. These effects remained significant after adjusting for gender, education, religious involvement, health, employment status, network size, and partner status. A higher education, religious involvement, staying in good health, and maintaining a large network increased the likelihood of volunteering. Unobserved factors, such as a more positive view on aging within society, may also account for the large increase in volunteering among the recent cohort of young olds.

Geurts, T., Poortman, A.-R., & Van Tilburg, T.G. (2012). Older parents providing child care for adult children: Does it pay off? *Journal of Marriage and Family*, 74, 239-250.

<http://dx.doi.org/10.1111/j.1741-3737.2011.00952.x> ISSN 0022-2445

This study examined whether past grandparental child care is related to present support from adult children. On the basis of social exchange theory, the authors expected that grandparental child care creates a debt that is repaid in the form of receiving support later in life. Using data from the Longitudinal Aging Study Amsterdam (N = 349 parents, N = 812 adult children), the authors found that grandparents who frequently provided child care for sons in the past more often received instrumental and emotional support from these sons approximately 13 years later than grandparents who less frequently provided child care. Investments in daughters did not pay off. Instrumental support other than child-care provision did not predict receiving support from either sons or daughters, but emotional support did. These results support the notion of long-term reciprocity in parent-child relationships, but its importance depends on the child's gender and the type of earlier investment.

Holwerda, T.J., Beekman, A.T.F., Deeg, D.J.H., Stek, M.L., Van Tilburg, T.G., Visser, P.J., Schmand, B., Jonker, C., & Schoevers, R.A. (2012). Increased risk of mortality associated with social isolation in older men: Only when feeling lonely? Results from the Amsterdam Study of the Elderly (AMSTEL). *Psychological Medicine*, 42, 843-853.

<http://dx.doi.org/10.1017/S0033291711001772>

Background. Loneliness has a significant influence on both physical and mental health. Few studies have investigated the possible associations of loneliness with mortality risk, impact on men and women and whether this impact concerns the situation of being alone (social isolation), experiencing loneliness (feeling lonely) or both. The current study investigated whether social isolation and feelings of loneliness in older men and women were associated with increased mortality risk, controlling for depression and other potentially confounding factors. Method. In our prospective cohort study of 4004 older persons aged 65–84 years with a 10-year follow-up of mortality data a Cox proportional hazard regression analysis was used to test whether social isolation factors and feelings of loneliness predicted an increased risk of mortality, controlling for psychiatric disorders and medical conditions, cognitive functioning, functional status and sociodemographic factors. Results. At 10 years follow-up, significantly more men than women with feelings of loneliness at baseline had died. After adjustment for explanatory variables including social isolation, the mortality hazard ratio for feelings of loneliness was 1.30 [95% confidence interval (CI) 1.04–1.63] in men and 1.04 (95% CI 0.90–1.24) in women. No higher risk of mortality was found for social isolation. Conclusions. Feelings of loneliness rather than social isolation factors were found to be a major risk factor for increasing mortality in older men. Developing a better understanding of the nature of this association may help us to improve quality of life and longevity, especially in older men.

Komp, K., Van Tilburg, T.G., & Broese van Groenou, M.I. (2012). Age, retirement, and health as factors in volunteering in later life. *Nonprofit and Voluntary Sector Quarterly*, 41, 280-299.

<http://dx.doi.org/10.1177/0899764011402697>

Volunteering in later life attracts attention because its benefits older volunteers, voluntary associations, and society. Unfortunately, researchers and practitioners struggle with the complexity of predicting who volunteers. The authors ask whether a rough identification of older volunteers solely based on age is possible. The authors answer this question by means of structural equation modeling, analyzing international survey data. The findings show that the direct effect of age on the time older people spend volunteering is negligible. Moreover, the age patterns in volunteering created by retirement and declining health are weak. Those findings make age an unsuitable indicator for volunteering in later life. The authors recommend that voluntary organizations and policy makers use personal characteristics, such as health status, when defining their target groups for programs that encourage volunteering. In addition, researchers should not use an age group when referring to the third age, meaning the active and productive part of old age.

Schoenmakers, E.C., Van Tilburg, T.G., & Fokkema, T. (2012). Coping with loneliness: What do older adults suggest? *Aging & Mental Health*, 16, 353-360.

<http://dx.doi.org/10.1080/13607863.2011.630373> ISSN 1360-7863

Objectives: A limited amount of information is available on how older adults cope with loneliness. Two ways of coping are distinguished here, i.e., active coping by improving relationships and regulative coping by lowering expectations about relationships. We explore how often older adults suggest these options to their lonely peers in various situations and to what extent individual resources influence their suggestions. Method: After introducing them to four vignettes of lonely individuals, discriminating with regard to age, partner status, and health, 1187 respondents aged 62-100 from the Longitudinal Aging Study Amsterdam were asked whether this loneliness can be alleviated by using various ways of coping. Results: In general, both ways of coping were often suggested. However, regression analyses revealed that active coping was suggested less often to people who are older, in poor health, or lonely and by older adults who were employed in midlife and have high self-esteem. Regulative coping was suggested more often to people who are older and by older adults with a low educational level and with low mastery. Conclusions: Coping with loneliness by actively removing the stressor is less often seen as an option for and by the people who could benefit most from it. This underlines the difficulty of combating loneliness.

Stevens, N.L., & Van Tilburg, T.G. (2012). Vriendschap wordt belangrijker. In T. Verlaan & M. de Coole (Red.), *Ouder worden in de 21e eeuw* (pp. 91-97). Amsterdam: SWP. [Herdruk van: *Gerōn, Tijdschrift over ouder worden en maatschappij*, 12 (3), 4-7.] ISBN 9789088502842

Het sociale leven van oudere volwassenen is gedurende de laatste twee decennia behoorlijk

veranderd als gevolg van maatschappelijke ontwikkelingen. Onderliggende processen bij deze veranderingen zijn individualisering en het loslaten van tradities. Er is meer persoonlijke vrijheid in de keuze van leefstijl en identiteit, en grotere persoonlijke verantwoordelijkheid voor het ontwikkelen en in stand houden van een persoonlijk netwerk van sociale relaties. Vriendschappen worden belangrijker.

Suanet, B.A., Broese van Groenou, M.I., & Van Tilburg, T.G. (2012). Informal and formal home care use among older adults in Europe: Can cross-national differences be explained by societal context and composition? *Ageing and Society*, 23, 491-515.

<http://dx.doi.org/10.1017/S0144686X11000390> ISSN 0144-686X

Cross-national comparisons used welfare state regimes to explain differences in care use in the European older population, yet these classifications do not cover all care-related societal characteristics and limit our understanding of which specific societal characteristics are most important. This study explores to the familialistic culture, welfare state context, and socio-economic and demographic composition add to our understanding of informal and formal care use of older adults in 11 European countries. Using the Survey of Ageing, Health and Retirement (2006), multilevel logistic regression analyses show that, in addition to individual determinants, societal determinants are salient for understanding informal and formal care use. In countries with a less familialistic culture, a high availability of home based services, a larger proportion of women in part-time work and a smaller proportion of 65 years and older in the population, older adults are more likely to receive formal home care, particularly when they have functional limitations. In countries with more residential care, more spending in pensions, more women in part-time employment and a more aged population, older adults with functional limitations are less likely to receive informal care. We can tentatively conclude that the incorporation of societal determinants rather than commonly used welfare state classifications yields more insight in factors that determine older adults informal and formal care use.

2011

Alma, M.A., Van der Mei, S.F., Feitsma, W.N., Groothoff, J.W., Van Tilburg, T.G., & Suurmeijer, T.P.B.M. (2011). Loneliness and self-management abilities in the visually impaired elderly. *Journal of Aging and Health*, 23, 843-861. <http://dx.doi.org/10.1177/0898264311399758>

Objectives: To describe the degree of loneliness among the visually impaired elderly and to make a comparison with a matched reference group of the normally sighted elderly. In addition, we examined self-management abilities (SMAs) as determinants of loneliness among the visually impaired elderly. Method: In a cross-sectional study, 173 visually impaired elderly persons completed telephone interviews. Loneliness and SMAs were assessed with the Loneliness Scale of De Jong Gierveld and the SMAS-30, respectively. Results: The prevalence of loneliness among the visually impaired elderly was higher compared with the reference group (50% vs. 29%;  $p < .001$ ). Multivariate hierarchical regression analysis showed that the SMA self-efficacy, partner status, and self-esteem were determinants of loneliness. Severity and duration of visual impairment had no effect on loneliness. Discussion: The relationship between SMAs (i.e., self-efficacy) and loneliness is promising, as SMAs can be learned through training. Consequently, self-management training may reduce feelings of loneliness.

Alma, M.A., Van der Mei, S.F., Melis-Dankers, B.J.M., Van Tilburg, T.G., Groothoff, J.W., & Suurmeijer, T.P.B.M. (2011). Participation of the elderly after vision loss. *Disability and Rehabilitation*, 33, 63-72. <http://dx.doi.org/10.3109/09638288.2010.488711>

Purpose. To assess the degree of participation of the visually impaired elderly and to make a comparison with population-based reference data. Method. This cross-sectional study included visually impaired elderly persons ( $\geq 55$  years;  $n=173$ ) who were referred to a low-vision rehabilitation centre. Based on the International Classification of Functioning, Disability and Health (ICF) participation in: 1) domestic life, 2) interpersonal interactions and relationships, 3) major life areas, and 4) community, social and civic life was assessed by means of telephone interviews. In addition, we assessed perceived participation restrictions. Results. Comparison with reference data of the elderly showed that visually impaired elderly persons participated less in heavy household activities, recreational activities and sports activities. No differences were found for the

interpersonal interactions and relationships domain. Participants experienced restrictions in household activities (84%), socializing (53%), paid or voluntary work (92%), and leisure activities (88%). Conclusions. Visually impaired elderly persons participate in society, but they participate less than their peers. They experience restrictions as a result of vision loss. These findings are relevant, since participation is an indicator for successful aging and has a positive influence on health and subjective well-being.

De Jong Gierveld, J., Fokkema, T., & Van Tilburg, T. G. (2011). Alleviating loneliness among older adults: Possibilities and constraints of interventions. In *Safeguarding the convoy: A call to action from the campaign to end loneliness* (pp. 41-45). Oxon, UK: Age UK Oxfordshire.  
[www.campaigntoendloneliness.org.uk/](http://www.campaigntoendloneliness.org.uk/) <http://hdl.handle.net/1871/24372>

Huisman, M., Poppelaars, J., Van der Horst, M., Beekman, A.T.F., Brug, J., Van Tilburg, T.G., & Deeg, D.J.H. (2011). Cohort profile: The Longitudinal Aging Study Amsterdam. *International Journal of Epidemiology*, 40, 868-876. <http://dx.doi.org/10.1093/ije/dyq219>

Plaisier, I., Van Tilburg, T.G., & Deeg, D.J.H. (2011). *Mogelijkheden voor preventie van AWBZ-gebruik: Netwerken van zelfstandig wonende ouderen*. Vrije Universiteit Amsterdam, Rapport uitgebracht aan het Ministerie van Volksgezondheid, Welzijn en Sport.  
<http://hdl.handle.net/1871/24373>

Pronk, M., Deeg, D.J.H., Smits, C., Van Tilburg, T.G., Kuik, D.J., Festen, J.M., & Kramer, S.E. (2011). Prospective effects of hearing status on loneliness and depression in older persons: Identification of subgroups. *International Journal of Audiology*, 50, 887-896.  
<http://dx.doi.org/10.3109/14992027.2011.599871> ISSN 1708-8186

Objective: To determine the possible longitudinal relationships between hearing status and depression, and hearing status and loneliness in the older population. Design: Multiple linear regression analyses were used to assess the associations between baseline hearing and 4-year follow-up of depression, social loneliness, and emotional loneliness. Hearing was measured both by self-report and a speech-in-noise test. Each model was corrected for age, gender, hearing aid use, baseline wellbeing, and relevant confounders. Subgroup effects were tested using interaction terms. Study sample: We used data from two waves of the Longitudinal Aging Study Amsterdam (2001–02 and 2005–06, ages 63–93). Sample sizes were 996 (self-report (SR) analyses) and 830 (speech-in-noise test (SNT) analyses). Results: Both hearing measures showed significant adverse associations with both loneliness measures ( $p < 0.05$ ). However, stratified analyses showed that these effects were restricted to specific subgroups. For instance, effects were significant only for non-hearing aid users (SR-social loneliness model) and men (SR and SNT-emotional loneliness model). No significant effects appeared for depression. Conclusions: We found significant adverse effects of poor hearing on emotional and social loneliness for specific subgroups of older persons. Future research should confirm the subgroup effects and may contribute to the development of tailored prevention and intervention programs.

Stevens, N.L., & Van Tilburg, T.G. (2011). Cohort differences in having and retaining friends in personal networks in later life. *Journal of Social and Personal Relationships*, 28, 24-43.  
<http://dx.doi.org/10.1177/0265407510386191> ISSN 0265-4075

Friendship has increased in importance during the last few decades. The study examines whether friendship has become more prevalent in personal networks of older adults. Three cohorts of older persons have been followed since 1992 for 17 years in the Longitudinal Aging Study Amsterdam. The younger cohort had friends more often and retained friends longer than two older cohorts. The differences are related to personal choice, relational competence and greater structural opportunities for making and keeping friends that were available to the younger cohort. Women retained same-sex friends longer than men. The oldest women lost cross-sex friends more often than did men. This is related to different gender-specific survival rates and to women's tendency to retain friendships longer.

Tolkacheva, N., Broese van Groenou, M.I., De Boer, A., & Van Tilburg, T.G. (2011). The impact of informal care-giving networks on adult child's care-giver burden. *Ageing and Society*, 31, 34-51.

<http://dx.doi.org/10.1017/S0144686X10000711> ISSN 0144-686X

Previous research on the care-giver burden experienced by adult children has typically focused on the adult child and parent dyad. This study uses information on multiple informal care-givers and examines how characteristics of the informal care-giving network affect the adult child's care-giver burden. In 2007, 602 Dutch care-givers who were assisting their older parents reported on parental and personal characteristics, care activities, experienced burden and characteristics of other informal care-givers. A path model was applied to assess the relative impact of the informal care-giving network characteristics on the care-giver burden. An adult child experienced lower care-giver burden when the informal care-giving network size was larger, when more types of tasks were shared across the network, when care was shared for a longer period, and when the adult child had no disagreements with the other members of the network. Considering that the need for care of older parents is growing, being in an informal care-giving network will be of increasing benefit for adult children involved in long-term care. More care-givers will turn into managers of care, as they increasingly have to organise the sharing of care among informal helpers and cope with disagreements among the members of the network.

Van Tilburg, T.G. (2011). Sociale relaties. In M.J. Aartsen, D.J.H. Deeg, C.P.M. Knipscheer, N.L. Stevens, G. Bosman & M. van Boxtel (Red.), *De canon van de gerontologie*. [www.canongerontologie.nl/samenleving/sociale\\_relaties](http://www.canongerontologie.nl/samenleving/sociale_relaties)

Van Tilburg, T.G. (2011). Geen bewijs voor meer eenzaamheid. In D.J.H. Deeg, M. van der Horst, N. Sant & M. Evenbrij (Red.), *Licht op later: Twintig jaar onderzoek naar ouder worden* (pp. 35-36). Amsterdam: VU Uitgeverij. ISBN 9789086595846 <http://hdl.handle.net/1871/28763>

2010

Aartsen, M.J., Comijs, H.C., & Van Tilburg, T.G. (2010). *Ouderen en verslaving: Een overzichtstudie*. Vrije Universiteit: Rapport uitgebracht aan ZonMW.

Cozijnsen, R., Stevens, N.L., & Van Tilburg, T.G. (2010). Maintaining work-related personal ties following retirement. *Personal Relationships*, 17, 345-356. <http://dx.doi.org/10.1111/j.1475-6811.2010.01283.x> ISSN 1350-4126

This study examines the consequences of retirement for the continuation of work-related personal ties. The hypothesis is that their inclusion in personal networks after retirement has become more likely because these relationships have become less role based in today's social-cultural context. Data are from the Longitudinal Aging Study Amsterdam. Members of two cohorts born during the periods 1928-1937 (N = 109) and 1938-1947 (N = 131) were interviewed in 1992 and 2002, respectively, with a follow-up 3 years later. Among retirees, the likelihood of having work-related relationships in their personal network after retirement increased by 19% in 10 years. This suggests that retirement has become less disruptive. Retirees seem more inclined to form intrinsically rewarding work-related relationships that continue to be important following retirement.

De Jong Gierveld, J., & Van Tilburg, T.G. (2010). The De Jong Gierveld short scales for emotional and social loneliness: Tested on data from seven countries in the UN Generations and Gender Surveys. *European Journal of Ageing*, 7, 121-130. <http://dx.doi.org/10.1007/s10433-010-0144-6> ISSN 1613-9372

Loneliness concerns the subjective evaluation of the situation individuals are involved in, characterized either by a number of relationships with friends and colleagues which is smaller than is considered desirable (social loneliness), as well as situations where the intimacy in confidant relationships one wishes for has not been realized (emotional loneliness). To identify people who are lonely direct questions are not sufficient; loneliness scales are preferred. In this article, the quality of the three-item scale for emotional loneliness and the three-item scale for social loneliness has been investigated for use in the following countries participating in the United Nations Generations and Gender Surveys: France, Germany, the Netherlands, Russia, Bulgaria, Georgia, and Japan. Sample sizes for the 7 countries varied between 8,158 and 12,828. Translations of the De Jong Gierveld loneliness scale have been tested using reliability and validity

tests including a confirmatory factor analysis to test the two-dimensional structure of loneliness. Test outcomes indicated for each of the countries under investigation reliable and valid scales for emotional and social loneliness, respectively.

Kaptijn, R., Thomése, G.C.F., Van Tilburg, T.G., & Liefbroer, A.C. (2010). How grandparents matter: Support for the cooperative breeding hypothesis in a contemporary Dutch population. *Human Nature*, 21, 393-405. <http://dx.doi.org/10.1007/s12110-010-9098-9> ISSN 1045-6767 (print version) 1936-4776 (electronic version)

Low birth rates in developed societies reflect women's difficulties in combining work and motherhood. While demographic research has focused on the role of formal childcare in easing this dilemma, evolutionary theory points to the importance of kin. The cooperative breeding hypothesis states that the wider kin group has facilitated women's reproduction during our evolutionary history. This mechanism has been demonstrated in pre-industrial societies, but there is no direct evidence of beneficial effects of kin's support on parents' reproduction in modern societies. Using three-generation longitudinal data anchored in a sample of grandparents aged 55 and over in 1992 in the Netherlands, we show that childcare support from grandparents increases the probability that parents have additional children in the next 8 to 10 years. Grandparental childcare provided to a nephew or niece of childless children did not significantly increase the probability that those children started a family. These results suggest that childcare support by grandparents can enhance their children's reproductive success in modern societies and is an important factor in people's fertility decisions, along with the availability of formal childcare.

Kaptijn, R., Thomése, G.C.F., Van Tilburg, T.G., Liefbroer, A.C., & Deeg, D.J.H. (2010). Low fertility in contemporary humans and the mate value of their children: Sex specific effects on social status indicators. *Evolution and Human Behavior*, 31, 59-68.

<http://dx.doi.org/10.1016/j.evolhumbehav.2009.07.007> ISSN 1090-5138

Evolutionary explanations of low fertility in modern affluent societies commonly state that low fertility is the outcome of high parental investments in the quality of their children. Although the empirical evidence that modern parents do face a quantity–quality trade-off is strong, two issues that are relevant from an evolutionary perspective have not received much attention. First, sex differences in the proximate aspects of quality have been largely ignored. Second, the relationship between the quantity of children and their reproductive success in contemporary low-fertility societies remains unclear. In this article, we study the quantity–quality trade-off as a trade-off between the number of children and the mate value and reproductive success of those children. We examine the trade-off in two steps. First, a lower number of children is expected to increase the mate value of these children. Second, greater mate value is expected to lead to greater reproductive success. Using sex-specific indicators of mate value, we test these hypotheses in a representative sample of the Dutch population aged 55–85 in 1992 ( $n = 3229$ ). This sample contains information on three successive generations in which the middle generation has completed fertility. We find support for the first hypothesis, but only partial support for the second hypothesis. A higher number of children is traded off against the mate value of the children, but not against their reproductive success. We conclude that the conditions under which the quantity of children is traded off against their reproductive success depend on the social environment.

Komp, K., & Van Tilburg, T.G. (2010). Ageing societies and the welfare state: Where the inter-generational contract is not breached. *International Journal of Ageing and Later Life*, 5, 7-11.

<http://dx.doi.org/10.3384/ijal.1652-8670.10517> ISSN 1652-8670

Komp, K., Van Tilburg, T.G., & Broese van Groenou, M.I. (2010). Paid work between age 60 and 70 years in Europe: A matter of socio-economic status? *International Journal of Ageing and Later Life*, 5, 45-75. <http://dx.doi.org/10.3384/ijal.1652-8670.105145> ISSN 1652-8670

Over the past years, older persons' workforce participation has increased and, after years of studying early retirement, the focus has gradually shifted to workforce participation between age 60 and 70 years. Those are the years directly below and above the mandatory retirement age in most of the European countries. We investigate the influence of socio-economic status (SES) on older persons' workforce participation. Moreover, we study whether the importance of private pensions in a country modifies the effect of SES. Survey data from eleven European countries are analysed in

multilevel analyses. Results show that paid work in old age is the domain of persons with high SES. Moreover, a high share of private pensions in a country diminishes the influence of occupational prestige on men's workforce participation. This suggests that older persons with low SES deserve particular attention in labour market reforms. Additionally, it suggests that pension reforms be monitored concerning their effects on social inequalities.

Savelkoul, M., & Van Tilburg, T.G. (2010). Eenzaamheid. In: *Volksgezondheid Toekomst Verkenning, Nationaal Kompas Volksgezondheid*. Bilthoven: RIVM.

[www.nationaalkompas.nl/gezondheidsdeterminanten/omgeving/leefomgeving/eenzaamheid/](http://www.nationaalkompas.nl/gezondheidsdeterminanten/omgeving/leefomgeving/eenzaamheid/)

Stevens, N.L., & Van Tilburg, T.G. (2010). Vriendschap wordt belangrijker. *Gerōn, Tijdschrift over ouder worden en maatschappij*, 12 (3), 4-7. ISSN 1389-143X

<http://dare.ubvu.vu.nl/handle/1871/17039> <http://geron.swptijdschriften.nl/Magazine/Article/930>

Het sociale leven van oudere volwassenen is gedurende de laatste twee decennia behoorlijk veranderd als gevolg van maatschappelijke ontwikkelingen. Onderliggende processen bij deze veranderingen zijn individualisering en het loslaten van tradities. Er is meer persoonlijke vrijheid in de keuze van leefstijl en identiteit, en grotere persoonlijke verantwoordelijkheid voor het ontwikkelen en in stand houden van een persoonlijk netwerk van sociale relaties. Vriendschappen worden belangrijker.

Tolkacheva, N., Broese van Groenou, M.I., & Van Tilburg, T.G. (2010). Sibling influence on care given by children to older parents. *Research on Aging*, 32, 739-759.

<http://dx.doi.org/10.1177/0164027510383532> ISSN 0164-0275

This study examines the degree to which siblings' behaviors and characteristics influence a child's caregiving. A sample of 186 older parents in need of care with at least two adult children reported on characteristics and caregiving of all their children (N = 703). Multilevel regression models show that there is evidence of children's joint caregiving efforts: The more care siblings give, the more care the child gives. Results demonstrate that the more sisters a child has, the less care that child gives. Children also substitute and support each other: The greater the number of siblings with partners and the lower the frequency of sibling emotional support exchanges with a parent, the more care the child gives. The study reflects the various outcomes of sibling solidarity when older parents become dependent.

Van der Pas, S., & Van Tilburg, T.G. (2010). The influence of family structure on the contact between older parents and their adult biological children and stepchildren in the Netherlands.

*Journal of Gerontology: Social Sciences*, 65B, 236-245. <http://dx.doi.org/10.1093/geronb/gbp108>

ISSN 1079-5014; eISSN 079-5014

This article examines the effect that family structure has on the contact between older adults and their (step)children. A comparison is made among three family structures: biological families, complex stepfamilies, and simple stepfamilies. The sample consists of respondents aged 55 years or older from the "Living Arrangements and Social Networks of Older Adults in the Netherlands" survey of 1992. The contact between biological relationships and steprelationships is measured by means of two items: contact frequency and whether contact is perceived as regular and important. Parents have less contact with their biological children in stepfamilies compared with parents with their children in biological families. The contact with biological children is perceived as more often regular and important in biological families and complex stepfamilies compared with simple stepfamilies. No difference was found in the contact between stepparents and stepchildren in simple and complex stepfamilies. However, the contact with stepchildren is perceived as more often regular and important in simple stepfamilies in comparison to complex stepfamilies. It is not so much the difference between biological children and stepchildren that counts when studying the contact between (step)parents and (step)children, as what the structure of the aging (step)family is.

Van Tilburg, T.G. (2010). Gevoelens van sociale onveiligheid onder ouderen. In *Alcohol, sociale veiligheid, empowerment* (pp. 28-41). Vrije Universiteit Amsterdam, Rapport uitgebracht aan het Ministerie van Volksgezondheid, Welzijn en Sport.

Van Tilburg, T.G., & Thomése, G.C.F. (2010). Societal dynamics in personal networks. In D. Dannefer & C.R. Phillipson (Eds.), *The Sage handbook of social gerontology* (pp. 215-225). London: Sage. ISBN 9781412934640 <http://dx.doi.org/10.4135/978-1-4462-0093-3.n16>

2009

Geurts, T., Poortman, A.-R., Van Tilburg, T.G., & Dykstra, P.A. (2009). Contact between adults and their grandparents in early adulthood. *Journal of Family Issues*, 30, 1698-1713. <http://dx.doi.org/10.1177/0192513X09336340> ISSN 0192-513X (print) 1552-5481 (electronic) Using cross-sectional data from the Netherlands Kinship Panel Study (N = 1,231), this study examines the relationship between grandchildren and their grandparents across early adulthood. age is used as a proxy for change during the grandchild's life course and the influence of major life course characteristics is examined. Results indicate that the majority of young adult grandchildren have contact with their grandparents, but the average frequency is low. age differences in contact frequency suggest a decline in grandparent-grandchild contact across early adulthood. Multilevel analyses show that grandchildren's employment status, partner, and parenthood status do not affect contact frequency with grandparents. Rather, the results point at the importance of the parental home for facilitating grandparent-grandchild contact as age-related differences are accounted for by whether grandchildren left the parental home. Furthermore, most of the variance in grandparent-grandchild contact is attributable to differences between family of the mother's and family of the father's side.

Komp, K., & Van Tilburg, T.G., & Broese van Groenou, M.I. (2009). The influence of the welfare state on the number of young old persons. *Ageing and Society*, 29, 609-624. <http://dx.doi.org/10.1017/S0144686X08007927> ISSN 0144-686X; eISSN 1469-1779 Many current discussions of welfare state reforms focus on the 'young old', a group now generally perceived as healthy people past retirement age without a legal responsibility for dependent persons in need of care. For the welfare state, they constitute a resource whose activities are hard to steer. This article focuses on the influence of the welfare state on the number of 'young old' people. It describes different ways in which the welfare state influences the number of young old persons, and investigates whether variations in the regulations for the ages of normal, early and late retirement are the prime cause. The paper also estimates the share of the young old among those aged 50–90 years in 10 European countries in 2004 using comparable survey data. These shares ranged between 36 and 49 per cent for men and between 35 and 52 per cent for women. High shares were found in continental European countries, and low shares in Scandinavian countries and the United Kingdom. The shares in southern European countries varied among the countries and by gender. To explain the variations in the share, country differences in retirement regulations proved helpful but insufficient. When the overall influence of the welfare state on the share of young old persons in the population was analysed, a country-characteristic pattern emerged.

Van Tilburg, T.G. (2009). Retirement: Effects on relationships. In H.T. Reis & S. Sprecher (Eds.), *Encyclopedia of human relationships* (Vol. 3, pp. 1376-1378). Thousand Oaks, CA: Sage. ISBN 978 1 41295 846 2 [To publisher http://dare.ubvu.vu.nl/handle/1871/17040](http://dare.ubvu.vu.nl/handle/1871/17040)

2008

Bloem, B.A., Van Tilburg, T.G., & Thomése, G.C.F. (2008). Changes in older Dutch adults' role networks after moving. *Personal Relationships*, 15, 465-478. <http://dx.doi.org/10.1111/j.1475-6811.2008.00210.x> ISSN 1350-4126; eISSN 1475-6811 Using the convoy model (Kahn & Antonucci, 1980), this study examined the differential impact of relocation, depending on the distance moved, on the size of three types of role networks. A total of 890 Dutch non-movers and 445 movers (aged 55 - 86) were selected from the Longitudinal Aging Study Amsterdam. Results of analyses of variance showed that the neighbor networks changed most after relocation. Long-distance movers discontinued the largest number of relationships with fellow club members. As expected, moving did not affect co-worker networks. The findings show

that, consistent with the convoy model, role networks proved to be unstable. Older adults, however, restored their partial networks at the second observation by starting new relationships.

Bloem, B.A., Van Tilburg, T.G., & Thomése, G.C.F. (2008). Residential mobility in older Dutch adults: Influence of later life events. *International Journal of Ageing and Later Life*, 3, 21-44.

<http://dx.doi.org/10.3384/ijal.1652-8670.083121> ISSN 1652-8670

In this study, we examined life course events of older Dutch adults in relation to three types of moves and the moving distance. Using the frameworks developed by Litwak and Longino (1987) and Mulder and Hooimeijer (1999), we stipulated life events or triggers and conditions in various life domains. We selected a total of 1160 men and 1321 women (aged 54 to 91) from the Longitudinal Aging Study Amsterdam. We conducted multinomial logistic regression analyses to predict moves to a residential care facility, adapted housing or regular housing and to predict the moving distance. Retirement, an empty nest, widowhood and a decline in health each triggered specific moves. In additional analyses, the effects of triggers, especially health changes, were moderated by conditions. There is no indication of a specific trajectory of moves associated with consecutive life events, as suggested by Litwak and Longino. By combining triggers and conditions, however, the framework developed by Mulder and Hooimeijer allows for a more valid analysis.

De Jong Gierveld, J., & Van Tilburg, T.G. (2008). De ingekorte schaal voor algemene, emotionele en sociale eenzaamheid [A shortened scale for overall, emotional and social loneliness]. *Tijdschrift voor Gerontologie en Geriatrie*, 39, 4-15. <http://dx.doi.org/10.1007/BF03078118> ISSN 0167-9228

Loneliness is an indicator of social well-being and pertains to the feeling of missing an intimate relationship (emotional loneliness) or missing a wider social network (social loneliness). The 11-item De Jong Gierveld scale has proved to be a valid and reliable measuring instrument for overall, emotional and social loneliness, although its length has sometimes rendered it difficult to use the scale in large surveys. In this study, we empirically tested a shortened version of the scale on data from two surveys (N = 9448). Confirmatory factor analyses confirmed the specification of two latent factors. Congruent validity and the relationship with determinants (partner status, health) proved to be optimal. The 6-item De Jong Gierveld scale is a reliable and valid measuring instrument for overall, emotional and social loneliness, which is suitable for large surveys.

Eenzaamheid wordt algemeen beschouwd als belangrijke indicator van sociaal welbevinden en betreft gevoelens verbonden aan het missen van een intieme relatie (emotionele eenzaamheid) en/of een tekort en gemis betreffende het bredere sociale netwerk (sociale eenzaamheid). De 11-item De Jong Gierveld schaal is uitgebreid getoetst en daarvan is bewezen dat het een valide en betrouwbaar meetinstrument vormt voor eenzaamheid in het algemeen, maar ook voor emotionele en sociale eenzaamheid. De lengte van deze schaal vormde soms een bezwaar voor gebruik in grootschalige surveys. In deze studie wordt de kwaliteit van een verkorte versie van deze schaal getoetst in nieuwe surveys (N = 9448).

Hoogendijk, E.O., Broese van Groenou, M.I., Van Tilburg, T.G., & Deeg, D.J.H. (2008). Educational differences in functional limitations: Comparisons of 55-65-year-olds in the Netherlands in 1992 and 2002. *International Journal of Public Health*, 53, 281-289.

<http://dx.doi.org/10.1007/s00038-008-8079-9> ISSN 1661-8556; eISSN 1661-8564

Objectives: This study compares educational differences in the functional limitations of 55-65-year-olds in the Netherlands in 1992 and 2002 and examines whether changes are explained by cohort lifestyle and psychosocial changes. Methods: Data from two cohorts of 55-65-year-olds (n = 948 in 1992 and n = 980 in 2002) in the Longitudinal Aging Study Amsterdam are analysed. Results: Men's disability ratios are similar in both cohorts. The women's disability ratio is higher in 2002 than in 1992. In 2002 the male and female cohorts both report unhealthier behavior than in 1992. Multivariate logistic regression analyses show that adjusted for age, cohort, lifestyle and psychosocial resources, poorly educated men have higher odds of functional limitations than well-educated men (OR = 2.62, 95% CI = 1.57-4.37). Analyses among women show a significant interaction effect between education and cohort. Poorly educated women have higher odds of functional limitations in 2002 than in 1992 (OR = 3.33, 95% CI = 1.02-10.87). Conclusions: The results underscore the need for policies focused on improving the health and lifestyle of the poorly educated.

Korporaal, M., Broese van Groenou, M.I., & Van Tilburg, T.G. (2008). Effects of own and spousal disability on loneliness among older adults. *Journal of Aging and Health*, 20, 306-325.

<http://dx.doi.org/10.1177/0898264308315431> ISSN 0898-2643; eISSN 1552-6887

Objectives: This study examines the effects of own and spousal disability on social and emotional loneliness among married adults aged 65 and older. Method: Data from 710 men and 379 women of a Dutch community sample were analyzed with linear regression analyses. Results: For men, only their wives' disability was related to higher levels of social loneliness, whereas for women mainly their own disability was related to higher levels of social loneliness. Own disability and spousal disability were related to higher levels of emotional loneliness among both men and women. Effects of disability remained unaffected after controlling for characteristics of the social network and the marital relationship. Discussion: Findings underscore the importance of considering effects of both spouses' health on measures of individual well-being. Also, the traditional division of social roles makes older married men relatively vulnerable to social loneliness when their wives suffer from disability.

Thomése, G.C.F., & Van Tilburg, T.G. (2008). Sociale gerontologie tussen toen en straks. *Gerōn, Tijdschrift over ouder worden en maatschappij*, 10(4), 9-12. ISSN 1389-143X

<http://hdl.handle.net/1871/18928>

Er was eens een tijd dat gerontologen allemaal gerontologen waren en er een sterke band bestond met beleid en praktijk van het gerontologisch onderzoek. Maar in de latere jaren negentig tekenden zich veranderingen af. Specialisatie binnen de gerontologie nam toe en de band tussen wetenschap en praktijk werd lossler. Een overzicht van deze ontwikkelingen binnen de sociale gerontologie en van daaruit de blik op de toekomst.

Van Tilburg, T.G. (2008). Social integration/isolation, later life. In D. Carr, R. Crosnoe, M.E. Hughes & A. Pienta (Eds.), *Encyclopedia of the life course and human development* (Vol. 3: Later life, pp. 378-381). Detroit: Macmillan Reference USA. ISBN-13 978 002866165 0 [To publisher](#)

Van Tilburg, T.G., & Dykstra, P.A. (2008). Differences in older adult's loneliness and depression across Europe. In P.A. Dykstra (Ed.), *Ageing, intergenerational solidarity and age-specific vulnerabilities* (pp. 141-153). The Hague: NIDI (NIDI report 77). [To publisher](#) ISSN 0922-7210. ISBN 978 90 6984 576 0.

Differences in emotional well-being across several European regions have been observed for both loneliness and depression. These differences can be explained partly by individual characteristics, such as gender, age, marital status and household composition, and the support provided within relationships with kin and other members of the personal network. Previous research into loneliness adopted the view that variegating cultural values also contribute to the understanding of regional differences. In regions characterized by a family orientation, such as southern Europe, living alone is loneliness-provoking since people without a partner are expected to live with their families. In case of an individualistic orientation, such as in Northern regions, older adults without a partner prefer to live alone. With respect to regional differences in depression, no attempt has been made as yet to explain these from cultural values in society. The present paper presents an overview of regional differences in well-being and related characteristics and attempts to link these differences to societal values.

Van Tilburg, T.G., & Van der Pas, S. (2008). The intergenerational care potential of Dutch older adults in 1992 and 2002. In C. Saraceno (Ed.), *Families, ageing and social policy: Generational solidarity in European welfare states* (pp. 217-235). Cheltenham, UK: Edward Elgar. ISBN 978 1 84720 648 0; ISBN 978 1 84844 514 7 [To publisher](#) [Google Books](#)

2007

Bras, H., & Van Tilburg, T.G. (2007). Kinship and social networks: A regional analysis of sibling relations in twentieth-century Netherlands. *Journal of Family History*, 32, 296-322.

<http://dx.doi.org/10.1177/0363199007300244>

Given the paucity of information on historical kin relations, this study uses survey data in order to

investigate how family forms influenced the relationships among elderly siblings born in farming families between 1903 and 1937 in three regions of the Netherlands. In the area with stem families, impartible inheritance, and a custom of neighbor help, social networks are largest and contain more siblings. Multilevel analyses show that even when controlling for other factors, this particular family form positively affects contact frequency in sibling relationships. Our results not only show the persistence of differential kinship values. Since respondents' networks were linked back to their families of socialization in the early twentieth century, findings also reflect regional disparities in kin relations in the past.

Broese van Groenou, M.I., & Van Tilburg, T.G. (2007). Network analysis. In J.E. Birren (Ed.), *Encyclopedia of gerontology (Second edition): Age, aging, and the aged* (Vol. 2, pp. 242-250). San Diego, CA: Elsevier. ISBN 0-12-370530-4; 978-0-1237-0530-3 <http://hdl.handle.net/1871/18930>

The personal networks of older people reflect their social opportunities and personal choices to maintain a specific set of relationships with relatives, neighbors, friends, acquaintances and so on. Network analysis is the method used to identify and examine the structural and functional features of the network of the older adult. The conceptualization and operationalization of the personal network depend on the subject of research. Five approaches to define personal network membership are presented and discussed. The five approaches differ regarding the part of the personal network that is mapped, and result in networks of different sizes and compositions. Regardless of the type of network delineation, a distinction can be drawn between the star network (data available on relationships with the focal person) and the full network (data available on all the network relationships). Features of the structure and content of both types of personal networks are presented. Finally, network analysis methods are presented and discussed, including ways to analyze hierarchical databases.

Broese van Groenou, M.I., & Van Tilburg, T.G. (2007). Ouder worden in sociaal-relatieel perspectief. In A. Pot, Y. Kuin & M. Vink (Eds.), *Handboek ouderenpsychologie* (pp. 51-63). Utrecht: De Tijdstroom. ISBN 90-5898-110-X <http://hdl.handle.net/1871/18931>

Ouderen met kleine netwerken van persoonlijke relaties waarin weinig familieleden en buurtgenoten zijn opgenomen, hebben een verhoogd risico voor sociale isolatie en psychische gezondheidsproblemen. Vooral 75-plussers, alleenstaande mannen, ouderen met een laag-economische status, die wonen in een grote stad behoren met name tot deze risicogroep. Ouderen die niet regelmatig steun uitwisselen met leden van hun netwerk, hebben een verhoogd risico op het ontberen van steun op latere leeftijd. Vorming en onderhoud van netwerken vindt tijdens de levensloop continu plaats; op latere leeftijd moet men 'oogsten' wat men eerder in het leven in relaties heeft geïnvesteerd. Informele zorg is een taak voor verschillende leden van het persoonlijk relatienetwerk, waarbij overleg moet plaatsvinden over afstemming en samenwerking. Eenzaamheid is het resultaat van een tekort schietend netwerk; er zijn onvoldoende relaties of men krijgt niet de ondersteuning die men zich wenst. Voorafgaand aan een interventie moet eerst de oorzaak van eenzaamheid achterhaald worden.

Broese van Groenou, M.I., & Van Tilburg, T.G. (2007). Het zorgpotentieel in de netwerken van ouderen. In A. de Boer (Red.), *Toekomstverkenning informele zorg* (pp. 45-64). Den Haag: Sociaal en Cultureel Planbureau. ISBN 978-90-377-0319-1 [www.scp.nl/Publicaties/Alle\\_publicaties/Publicaties\\_2007/Toekomstverkenning\\_informele\\_zorg](http://www.scp.nl/Publicaties/Alle_publicaties/Publicaties_2007/Toekomstverkenning_informele_zorg)

Hoe zal de informele zorg er in 2020 eruit zien? Wat kan de overheid doen aan eventuele knelpunten in de informele zorg? Vaak wordt aangenomen dat er in de toekomst minder informele zorg zal zijn. Ramingen laten echter zien dat ook in de toekomst het aantal hulpverleners en ontvangers in evenwicht zal blijven. Niettemin zijn er belangrijke sociale en culturele trends die de informele zorgverlening onder druk zetten. De stijgende arbeidsparticipatie van vrouwen en ouderen, de toenemende geografische afstand tussen verwanten en een hoger opleidingsniveau hebben een negatieve invloed op het zorgaanbod. Daarnaast is het zo dat veel hulpbehoevenden juist professionele zorg prefereren omdat zij zich bezwaard voelen om hulp van hun naasten te ontvangen. Er zijn ook positieve ontwikkelingen, zoals de stijging van het aantal potentiële hulpverleners bij ouderen. De balans van aanbod en gebruik hangt niet alleen af van de keuzes die de mensen zelf maken. Het overheidsbeleid is wel degelijk van invloed. Zo combineren steeds meer mensen arbeid en zorg. Dit betekent dat het belang van de verlofregelingen alleen maar

groter wordt. In deze uitgave heeft het SCP, op verzoek van het ministerie van Volksgezondheid, Welzijn en Sport, een aantal achtergrondstudies over de toekomst van de informele zorg gebundeld. In juni 2007 is hiervan reeds een samenvatting uitgebracht onder de titel *Blijvend in balans*.

Comijs, H.C., Beekman, A.T.F., Smit, F., Bremmer, M., Van Tilburg, T.G., & Deeg, D.J.H. (2007). Childhood adversity, recent life events and depression in late life. *Journal of Affective Disorders*, 103, 243-246. <http://dx.doi.org/10.1016/j.jad.2007.01.012>

Background. The study investigates whether persons who have experienced childhood adversity are more likely to develop depressive symptoms when faced with recent events. Method. Data were used from a population-based sample, aged 55 to 85 years ( $n = 1887$ ), which were not depressed at baseline. Childhood adversities and recent stressful life events were retrospectively assessed. Depressive symptoms were measured with the CES-D. Results. 14.4% of our sample experienced adverse events during childhood (< 18 yrs) and 35.4% experienced recent events. Associations of depressive symptoms were found with both, childhood adversity (OR 1.80, 95% CI 1.21–2.69) and recent life events (OR 1.42, 95% CI 1.01–2.00). The effect of recent events on depressive symptoms was not modified by childhood adversity. Limitations. Underreporting may be present due to unwillingness to report embarrassing events or to disclose painful memories. Conclusions. No evidence was found for the assumption that older persons were more vulnerable for depression in reaction to recent life events when they were exposed to childhood adversity.

Fokkema, T., & Van Tilburg, T.G. (2007). Zin en onzin van eenzaamheidsinterventies bij ouderen [Loneliness interventions among older adults: Sense or nonsense?]. *Tijdschrift voor Gerontologie en Geriatrie*, 38, 185-203 [online: 161-177]. <http://dx.doi.org/10.1007/BF03074846> ISSN 0167-9228

This article focuses on the most important findings of a unique evaluation study of loneliness interventions among older adults. Eighteen interventions have recently been carried out and closely monitored in various parts of the Netherlands. In ten of these interventions the number of participants was sufficiently large to quantitatively determine the effect of the intervention on loneliness. It does not appear to be easy to overcome loneliness: no more than two of the ten interventions resulted in a reduction in loneliness among participants that may be attributed to the intervention. Two other interventions may have had a preventive effect: whereas loneliness increased among members of the control group, it remained more or less constant over time among participants. The effect measurements were followed by process evaluations in an effort to gain insight into the possible reasons why feelings of loneliness were not alleviated among participants in the case of most of the interventions. This resulted in a number of lessons for the future, which may be used as a checklist when designing new interventions projects.

Guiaux, M., Van Tilburg, T.G., & Broese van Groenou, M.I. (2007). Changes in contact and support exchange in personal networks after widowhood. *Personal Relationships*, 14, 457-473. <http://dx.doi.org/10.1111/j.1475-6811.2007.00165.x>

The convoy model conceptualizes older adults' networks of personal relationships as convoys of social support. This prospective study examined how contact and support in several relationships changed due to widowhood. Using observations between 1992 and 2002 from the Longitudinal Aging Study Amsterdam, multilevel models describe change in contact and support of 227 widowed and 408 married older adults. Contact and support were low before widowhood, and increased in all relationships after widowhood, and more so in child and sibling relationships. Around 2.5 years after widowhood, contact and support started to decrease. Our findings increase our understanding of the heterogeneity of network changes in old age and of the instability of the network as a social convoy in late life.

Terhell, E.L., Broese van Groenou, M.I., & Van Tilburg, T.G. (2007). Network contact changes in early and later postseparation years. *Social Networks*, 29, 11-24. <http://dx.doi.org/10.1016/j.socnet.2005.11.006> ISSN 0378-8733

This study explains changes in contact frequency in relationships of the pre-separation personal network in the early and later years after partners separate. The explanation includes general and separation-related characteristics of the network relationship and the individual. Personal

interviews were conducted in three waves of a 12-year longitudinal study with 40 men and 64 women who separated in 1987 or 1988. Multilevel analyses on 1639 network ties showed that multiplex and kin relationships remained over the long term. Contact changes depended on network relationship characteristics, structural conditions, perceived restrictions, and alternative network relationships. Separation-related characteristics were more important in the early years, general characteristics in the later years after the separation.

Van der Pas, S., Van Tilburg, T.G., & Knipscheer, C.P.M. (2007). Changes in contact and support within intergenerational relationships in the Netherlands: A cohort and time-sequential perspective. In T. Owens & J.J. Sutor (Eds.), *Advances in life course research: Interpersonal relations across the life course* (Vol. 12; pp. 243-274). London: Elsevier Science. ISSN 1040-2608; ISBN-13: 978-0-7623-1292-4; ISBN-10: 0-7623-1292-0 <http://dx.doi.org/10.1016/S1040-2608%2807%2912009-8> This study investigates whether the frequency of contact and support exchanged in relationships between parents and adult children declines over successive cohorts and over individual time in the Netherlands. Respondents included a birth cohort from 1928 - 1937 with data collected in 1992 (N = 941) and in 2002 (N = 574) and a birth cohort from 1938 - 1947 with data collected in 2002 (N = 884). We assessed cohort and time-sequential changes. Parents of the later cohort had more contact and support exchanges with their children than the earlier cohort, revealing that families have not declined in importance. Furthermore, longitudinally, contact and supportive exchanges with adult children decreased, suggesting that parents and children devote less time to intergenerational relationships during this 'empty nest' phase.

Van Tilburg, T.G. (2007). Eenzaamheid: Een overzicht. *Zin in zorg*, 9 (4), 5-7. ISSN 1389-6490 Eenzaamheid komt onder alle geleidingen van de bevolking voor, bij jong en oud, zowel binnen als buiten de zorg. Het artikel geeft een overzicht van wat onder eenzaamheid verstaan wordt, wat er tegen te doen valt. De bijdrage is toegespitst op de zorg.

Van Tilburg, T.G., & De Jong Gierveld, J. (Red.) (2007). *Zicht op eenzaamheid: Achtergronden, oorzaken en aanpak*. Assen: Van Gorcum. ISBN 978 90 232 4344 1 [Naar uitgever Google Books](#) Dit boek neemt de lezer in begrijpelijke taal mee langs de verschillende aspecten van eenzaamheid en levert duidelijke antwoorden op veel gestelde vragen. In deel 1 staat de begripsvorming centraal: Wat is eenzaamheid? Welke vormen kunnen we onderscheiden en hoe vaak komen die in ons land voor? Deel 2 behandelt de mogelijke verklaringen voor het feit dat mensen zich eenzaam voelen. Heeft dat te maken met het aantal vrienden en kennissen dat men heeft? Heeft dat te maken met de buurt waarin ze wonen? Welke risicogroepen zijn er? In deel 3 is er aandacht voor het voorkómen, oplossen en/of verwerken van eenzaamheid, waarbij nadrukkelijk wordt gekeken naar de bijdrage die mensen daaraan zélf kunnen leveren. Natuurlijk komen ook de mogelijke betekenis en invloed van de omgeving – familieleden, vrienden en kennissen – aan de orde, evenals de mogelijkheden van eenzaamheidsinterventies.

Hoofdstukken:

De Jong Gierveld, J., & Van Tilburg, T.G. Inleiding (pp. 1-3)

De Jong Gierveld, J., & Van Tilburg, T.G. Uitwerking en definitie van het begrip eenzaamheid (pp. 7-14)

Van Tilburg, T.G., & De Jong Gierveld, J. Het vaststellen van eenzaamheid (pp. 15-23)

Van Tilburg, T.G. Prevalentie (pp. 24-30)

Van Tilburg, T.G. Typen van eenzaamheid (pp. 31-37)

Van Tilburg, T.G. De partner (pp. 41-50)

Broese van Groenou, M.I., & Van Tilburg, T.G. Andere persoonlijke relaties (pp. 51-59)

Broese van Groenou, M.I. Deelname aan activiteiten (pp. 60-64)

Thomése, G.C.F. Woonomgeving (pp. 65-73)

Dykstra, P.A. Relatiestandaards (pp. 74-80)

De Jong Gierveld, J. Persoonlijke banden – maatschappelijke randvoorwaarden (pp. 81-86)

Stevens, N.L. Verwerking van eenzaamheid (pp. 89-94)

Fokkema, T., & Stevens, N.L. Typen van interventies (pp. 95-99)

Fokkema, T., & Stevens, N.L. Interventieprojecten uitgelicht (pp. 100-104)

Fokkema, T. Werken aan verwerking (pp. 105-109)

De Jong Gierveld, J. Tot slot (p. 110)

Bloem, B.A., & Van Tilburg, T.G. (2006). Minder eenzaam na verhuizing? *Rooilijn, Tijdschrift voor wetenschap en beleid in de ruimtelijke ordening*, 39, 221-226. ISSN 1380-2860.

<http://hdl.handle.net/1871/19008>

'Oude bomen moet je niet verplanten' luidt een bekend spreekwoord en ook het ouderenbeleid voor wonen is op deze wijsheid geënt. Maar zijn ouderen die zelfstandig blijven wonen wel altijd beter af dan hun leeftijdsgenoten die naar voor ouderen bestemde woningen of woonvormen verhuizen? Bij een kleine groep ouderen met ernstige gezondheidsproblemen vermindert juist de eenzaamheid na een verhuizing naar een verzorgings- of verpleeghuis. Sommige oude bomen bloeien weer op.

Braam, A.W., Bramsen, I., Van Tilburg, T.G., Van der Ploeg, H.M., & Deeg, D.J.H. (2006). Cosmic transcendence and framework of meaning in life: Patterns among older adults in The Netherlands. *Journal of Gerontology: Social Sciences*, 61B, S121-S128.

<http://psychsocgerontology.oxfordjournals.org/content/61/3/S121.full.pdf+html> ISSN 1079-5014

Objectives. Gerotranscendence has been conceptualized as a potential development accompanying normal aging. Gerotranscendence is defined as a shift in metaperspective from a materialistic and pragmatic world view to a more cosmic and transcendent one. In the past decade, population-based studies have tested Tornstam's Gerotranscendence Scale. Its Cosmic Transcendence subscale, in particular, emerged as consistent. The aim of the present study was to examine (a) how cosmic transcendence relates to having a framework of meaning in life and (b) whether religiousness and demographic characteristics influence possible relationships. Methods. Participants were 928 older Dutch adults who responded to a questionnaire that included the Cosmic Transcendence scale, aspects of religiousness, and the Framework of Meaning in Life subscale of the Life Regard Index. Results. A substantial, positive association between cosmic transcendence and framework of meaning in life was observed. This association was much more pronounced among participants who were less involved in religion, who were women, who were age 75 or older, or who were widowed. Discussion. The current study indicates that the personal relevance of cosmic transcendence depends on cultural factors such as secularization. Furthermore, cosmic transcendence seems to unfold as an important domain in the life view of women, the older old, and the widowed.

De Jong Gierveld, J., Van Tilburg, T.G., & Dykstra, P.A. (2006). Loneliness and social isolation. In D. Perlman & A. Vangelisti (Eds.), *The Cambridge handbook of personal relationships* (pp. 485-500). Cambridge, UK: Cambridge University Press. ISBN-13 978-0-521-82617-4, ISBN-10 0-521-82617-9 hardback; ISBN-13 978-0-521-53359-1, ISBN-10 0-521-53359-7 paperback. [To publisher](#)

<http://hdl.handle.net/1871/18934>

De Jong Gierveld, J., & Van Tilburg, T.G. (2006). A 6-item scale for overall, emotional, and social loneliness: Confirmatory tests on survey data. *Research on Aging*, 28, 582-598.

<http://dx.doi.org/10.1177/0164027506289723> ISSN 0164-0275

Loneliness is an indicator of social well-being and pertains to the feeling of missing an intimate relationship (emotional loneliness) or missing a wider social network (social loneliness). The 11-item De Jong Gierveld Loneliness Scale has proved to be a valid and reliable measurement instrument for overall, emotional, and social loneliness, although its length has sometimes rendered it difficult to use in large surveys. In this study, the authors empirically tested a shortened version of the scale on data from two surveys (N = 9,448). Confirmatory factor analyses confirmed the specification of two latent factors. Congruent validity and the relationship with determinants (partner status, health) proved to be optimal. The 6-item De Jong Gierveld Loneliness Scale is a reliable and valid measurement instrument for overall, emotional, and social loneliness that is suitable for large surveys.

Fokkema, T., & Van Tilburg, T.G. (2006). Een panacee voor eenzaamheid bestaat niet: Bestrijding en preventie vereist zeer gerichte aanpak. *Gerōn, Tijdschrift over ouder worden en maatschappij*, 8, 43-47. ISSN 1389-143X <http://hdl.handle.net/1871/18935>

Vanaf 2001 heeft de Stichting Sluyterman van Loo – *Stimuleringsfonds ouderenprojecten* via het thematisch subsidieprogramma: *Eenzaamheid onder ouderen* – de uitvoering en het onderzoek van achttien verschillende interventieprojecten gefinancierd. Het onderzoek door het Nederlands Interdisciplinair Demografisch Instituut (NIDI) en de Vrije Universiteit – Sociale Gerontologie – Amsterdam richtte zich op de effectiviteit van de projecten. Inmiddels is het onderzoek afgerond. Tijd om de eindbalans op te maken.

Fokkema, T., & Van Tilburg, T.G. (2006). *Aanpak van eenzaamheid: Helpt het? Een vergelijkend effect- en procesevaluatieonderzoek naar interventies ter voorkoming en vermindering van eenzaamheid onder ouderen* [Addressing loneliness: Does it work? A comparative evaluation of loneliness interventions among older adults]. Den Haag, Nederlands Interdisciplinair Demografisch Instituut, rapport no. 69. ISSN 0922-7210; ISBN 90-70990-98-9.  
[www.nidi.knaw.nl/content/nidi/output/reports/nidi-report-69.pdf](http://www.nidi.knaw.nl/content/nidi/output/reports/nidi-report-69.pdf) <http://hdl.handle.net/1871/18932>

Van Tilburg, T.G. (2006). Sociaal kapitaal in de derde en vierde levensfase. *Gerōn, Tijdschrift over ouder worden en maatschappij*, 8, 15-18. ISSN 1389-143X <http://hdl.handle.net/1871/18936>  
Het onderscheid tussen jonge en oude ouderen wordt vaak gemaakt. In deze bijdrage wordt het verschil tussen deze twee levensfasen ter discussie gesteld. Betoogd wordt dat het onderscheid teveel verabsoluteerd wordt: beide fasen worden gekenmerkt door verlies aan sociaal kapitaal. Wel is het zo dat verliezen zich opstapelen, zodat strategieën voor aanpassing aan verliezen moeten verschillen tussen de beide levensfasen.

2005

Aartsen, M.J., Van Tilburg, T.G., Smits, C.H.M., Comijs, H.C., & Knipscheer, C.P.M. (2005). Does widowhood affect memory performance of older persons? *Psychological Medicine*, 35, 217-226.  
<http://dx.doi.org/10.1017/S0033291704002831>

Background. The loss of a spouse has been found to have a negative effect on physical and mental health and leads to increased mortality. Whether conjugal bereavement also affects memory functioning has largely been unexamined. The present study investigates the effect of widowhood on memory functioning in older persons. Method. The sample consisted of 474 married women and 690 married men aged 60–85 years in 1992, followed up in 1995 and 1998. During the study 135 (28%) of the women and 69 (10%) of the men lost their spouse. Linear regression analysis was used to examine whether widowed men and women differed from those who had not been widowed in rate of memory change over 6 years. Cross-domain latent-change models were subsequently used to evaluate the extent to which changes in memory are related to changes in other domains of functioning that may be affected by widowhood. Results. Older adults who lost a spouse during follow-up showed a greater decline in memory over 6 years than those who remained married. A higher level of depressive symptoms at baseline was related to lower levels of memory functioning and a greater decline. Memory decline was unrelated to changes in depressive symptoms and physical health. Conclusions. Loss of the spouse is related to a greater decline in memory in older adults. The absence of an association with physical functioning and the weak association with mental functioning suggest that losing a spouse has an independent effect on memory functioning.

Dykstra, P.A., Van Tilburg, T.G., & De Jong Gierveld, J. (2005). Changes in older adult loneliness: Results from a seven-year longitudinal study. *Research on Aging*, 26, 725-747.  
<http://dx.doi.org/10.1177/0164027505279712>

This study examines loneliness and its correlates – health, residential care, partner status, and network size – over a seven-year period among adults born between 1908 and 1937. The four waves of data are from the Dutch ‘Living Arrangements and Social Networks of Older Adults’ and the ‘Longitudinal Aging Study of Amsterdam’ programs. Data from at least two waves are available for 2925 respondents. Results show that older adults generally become lonelier as time passes. The increase is greater for the oldest, the partnered, and those with a better functional capacity at baseline. Older adults who lose their partner by death show the greatest increase in loneliness. Not all older adults become more lonely: improvement in functional capacity and network expansion

lead to less loneliness. Entry into residential care does not affect loneliness. The longitudinal design provides new insights into factors that protect against loneliness compared to cross-sectional studies.

Fokkema, T., & Van Tilburg, T.G. (2005). Eenzaamheidsinterventies in woonzorgcentra: Helpen ze echt? *Gerōn, Tijdschrift over ouder worden en maatschappij*, 7, 72-75.  
<http://hdl.handle.net/1871/18938>

In toenemende mate worden in woonzorgcentra initiatieven ondernomen om de eenzaamheid van bewoners aan te pakken. Of deze interventies ook echt effectief zijn, is niet duidelijk. Reinoud Adviesgroep en WoonZorgAdvies zijn in 2002 met het project 'Aanpak van eenzaamheid onder ouderen in woonzorgcentra' begonnen, met financiële ondersteuning van Stichting Sluyterman van Loo. In een eerder nummer van *Gerōn* is ingegaan op de opzet van het project. In dit artikel komen de belangrijkste uitkomsten van de evaluatie en het effectonderzoek aan bod.

Fokkema, T., & Van Tilburg, T.G. (2005). *Eenzaam en dan? De (on-)mogelijkheden van interventies bij ouderen*. Nederlands Interdisciplinair Demografisch Instituut, Den Haag / Vrije Universiteit Amsterdam. [Full text](http://hdl.handle.net/1871/18937) ISBN 90-810191-1-2 <http://hdl.handle.net/1871/18937>  
Eindrapportage aan de Stichting Sluyterman van Loo van een vergelijkend effect- en procesevaluatieonderzoek naar interventies ter voorkoming en vermindering van eenzaamheid onder ouderen.

Poortman, A., & Van Tilburg, T.G. (2005). Past experiences and older adults' attitudes: A lifecourse perspective. *Ageing and Society*, 25, 19-39. <http://dx.doi.org/10.1017/S0144686X04002557>  
In this study we apply a lifecourse perspective to an examination of older adults' attitudes about gender roles and moral issues. The study goes beyond previous research in that it examines the relationships between older adults' attitudes and: (a) experiences in the parental home, (b) people's own marital and work experiences through the entire lifecourse, and (c) the marital and work experiences of their children. The sample consists of respondents aged 55 or more years from the 'Living Arrangements and Social Networks of Older Adults in The Netherlands' survey of 1992 and the 'Longitudinal Ageing Study Amsterdam'. It is shown that a large majority of older adults subscribe to the view that people have the freedom to make their own choices about the issues of voluntary childlessness, abortion and euthanasia. Similarly, most older adults favour equality between men and women. Multivariate analyses show that people's attitudes are generally consistent with their lifecourse experiences. It is found that unconventional lifecourse experiences, particularly with respect to childbearing, associate with more progressive attitudes in late life. The behaviour and lifecourse experiences of their children are also related to older adults' attitudes. Particularly, if their children co-habited, older adults tend to be more progressive. These findings suggest that an important mechanism by which societal change may have affected older adults is through their children's experiences.

Roorda, L.D., Roebroek, M.E., Van Tilburg, T.G., Molenaar, I.W., Lankhorst, G.J., & Bouter, L.M. (2005). Measuring activity limitations in walking: Development of a hierarchical scale for patients with lower-extremity disorders who live at home. *Archives of Physical Medicine and Rehabilitation*, 86, 2277-2283. <http://dx.doi.org/10.1016/j.apmr.2005.06.014>  
Objective: To develop a hierarchical scale that measures activity limitations in walking in patients with lower-extremity disorders who live at home. Design: Cross-sectional study. Setting: Orthopedic workshops and outpatient clinics of secondary and tertiary care centers. Participants: Patients (N=981; mean +/- age standard deviation, 58.6 +/- 15.4y; 46% men) living at home, with different lower-extremity disorders: stroke, poliomyelitis, osteoarthritis, amputation, complex regional pain syndrome type 1, and diabetic and degenerative foot disorders. Interventions: Not applicable. Main Outcome Measures: (1) Fit of the monotone homogeneity model, indicating whether items can be used for measuring patients; (2) fit of the double monotonicity model, indicating invariant (hierarchical) item ordering; (3) intratest reliability, indicating repeatability of the sum score; (4) robustness, addressing the clinimetric properties within subgroups of patients; and (5) differential item functioning, addressing the validity of comparisons between subgroups of patients. Results: Thirty-five of 41 dichotomous items had (1) good fit of the monotone homogeneity model (coefficient H=.50), (2) good fit of the double monotonicity model (coefficient

$H^T=.33$ ), (3) good intratest reliability (coefficient  $\rho=.95$ ), (4) satisfactory robustness (within subgroups of patients defined by age, sex, and diagnosis), and (5) some differential item functioning (6 items in amputees compared with nonamputees). Conclusions: A hierarchical scale, with excellent scaling characteristics, was developed to measure activity limitations in walking in patients with lower-extremity disorders who live at home. The measurements should be interpreted cautiously when making comparisons between amputees and nonamputees.

Thomése, G.C.F., Van Tilburg, T.G., Broese van Groenou, M.I., & Knipscheer, C.P.M. (2005). Network dynamics in later life. In M.L. Johnson & V.L. Bengtson (Eds.), *The Cambridge handbook of age and ageing* (pp. 463-468). Cambridge, UK: Cambridge University Press. ISBN-10: 0521533708, ISBN-13: 9780521533706 [To publisher http://hdl.handle.net/1871/19009](http://hdl.handle.net/1871/19009)

Van der Pas, S., Van Tilburg, T.G., & Knipscheer, C.P.M. (2005). Measuring older adults' filial responsibility expectations: Exploring the application of a vignette technique and an item scale. *Educational and Psychological Measurement*, 65, 1026-1045. <http://dx.doi.org/10.1177/0013164405278559>

This study focused on two conceptually distinct measures of the filial responsibility expectations of older adults: a vignette technique and an attitude item scale. Data were based on 1,553 respondents aged 61 to 92 years who participated in the Longitudinal Aging Study Amsterdam in 1998 to 1999. The results showed that the item scale had multiple dimensions of filial expectations. Older adults distinguished between emotional-, instrumental-, contact-, and information-oriented expectations. The vignette technique resulted in a unidimensional measurement of expectations. The intercorrelation between the scores of the item scale and vignette technique was modest, indicating a certain amount of overlap. Child characteristics incorporated into the vignettes added to the specificity of measurements of the filial expectations. The authors observed that older adults were more likely to have expectations for care from an adult child who is not employed and does not have children. Minor differences between sons and daughters were observed.

Van Tilburg, T.G. (2005). *Gesloten uitbreiding: Sociaal kapitaal in de derde en vierde levensfase*. Rede uitgesproken bij de aanvaarding van het ambt van hoogleraar Sociale Gerontologie aan de faculteit der Sociale Wetenschappen van de Vrije Universiteit op 8 december 2005. ISBN-10: 90-81019-1-20; ISBN-13: 978-90-81019-1-25 <http://hdl.handle.net/1871/18939>

Tegenwoordig onderscheidt men vier levensfasen, waarvan twee binnen de ouderdom. In de derde levensfase is men niet meer productief via arbeid, maar is men over het algemeen goed gezond. De vierde levensfase kent een problematische gezondheid. Er is achtereenvolgens een optimistische, positieve ouderdom en een melancholieke, negatieve ouderdom. Ondanks deze verschillen staat in beide fasen het verlies centraal. Maatschappelijke uitsluiting als gevolg van rolverlies en rolbeperking zijn karakteristiek voor de ouderdom. In dit proces wordt sociaal kapitaal verloren. Dit kapitaal betreft sociale hulpbronnen die aangewend worden om allerlei doelen te verwezenlijken. Men heeft sociaal kapitaal als men emotionele en instrumentele bindingen met mensen om zich heen heeft; ook voelt men zich deel van een gemeenschap. Met een tweede soort sociaal kapitaal heeft men toegang tot mensen buiten de eigen kring en tot maatschappelijke organisaties waarin vertrouwen bestaat dat zij iets voor je kunnen betekenen. Onderzoeksgegevens laten zien dat beide vormen van sociaal kapitaal zowel in de derde als in de vierde levensfase sterk verminderen als gevolg van verlies van arbeid en gezondheid. Men kan zich in eerste instantie aan dit verlies aanpassen. Belangrijke levensdoelen worden dan nog gehandhaafd. Op den duur blijkt dit niet meer vol te houden. Oplopende verliezen in de vierde levensfase noodzaken tot steeds meer inspanningen en aanwending van meer bronnen, die steeds minder beschikbaar zijn. Doelen moeten worden losgelaten. Geconcludeerd wordt dat de ouderdom met de uitbreiding met een derde levensfase nog niet wezenlijk is veranderd.

Van Tilburg, T.G. (2005). Het belang van aantallen en het beklimmen van een berg. In *Over de toekomst van de sociale gerontologie* (pp. 19-20). Album amicorum ter gelegenheid van het emeritaat van prof. dr. C.P.M. Knipscheer. Amsterdam, Vrije Universiteit, Faculteit der Sociale Wetenschappen. [Tekst](#)

Aartsen, M.J., Van Tilburg, T.G., Smits, C.H.M., & Knipscheer, C.P.M. (2004). A longitudinal study on the impact of physical and cognitive decline on the personal network in old age. *Journal of Social and Personal Relationships*, 21, 249-266. <http://dx.doi.org/10.1177/0265407504041386>

The effects of cognitive and physical decline on changes in the size and composition of four types of personal networks over a period of six years were investigated in a Dutch sample of 1552 older adults, aged 55–85 years. The effects of age and a decline in cognitive and physical functioning on the probability of changes in all possible network types were investigated. Transitions related to age and to cognitive and physical decline were observed for about one-third of the study sample. Greater age was associated with an increase in the number of family members in the network. Physical decline was associated with a replacement of friends and neighbors by family members only if the network was large. In small networks, no such association occurred. Cognitive decline was associated with a loss of relationships, most likely friends and neighbors, who were not found to be replaced by family members. Physical decline appears to be associated with an increase in the potential number of supporters in the network, whereas cognitive decline is associated with a decrease in the number of potential supporters.

Comijs, H.C., Van Tilburg, T.G., Geerlings, S.W., Jonker, C., Deeg, D.J.H., Van Tilburg, W., & Beekman, A.T.F. (2004). Do severity and duration of depressive symptoms predict cognitive decline in older persons? Results of the Longitudinal Aging Study Amsterdam. *Aging, Clinical and Experimental Research*, 16, 226-232.

Background and Aims: Some prospective studies show that depression is a risk factor for cognitive decline. Thus far, the explanation for the background of this association remained unclear. In the present study it is investigated (1) whether depression is etiologically linked to cognitive decline; (2) whether depression and cognitive decline may be the consequence of the same underlying subcortical pathology, or (3) whether depression is a reaction to global cognitive deterioration.

Methods: A cohort of 133 depressed and 144 non-depressed older persons, was followed at eight successive observations during three years. All subjects were participants of the Longitudinal Aging Study Amsterdam (LASA). Depression symptoms were measured by means of the CES-D at eight successive waves. Cognitive function (memory function, information processing speed and global cognitive functioning) was assessed at baseline and at the last CES-D measurement.

Results: Our results show that the severity and duration of depressive symptoms were not associated with subsequent decline in memory functioning or global cognitive decline. There was an association between both chronic mild depression and chronic depression, and decline in speed of information processing.

Conclusions: These results support the hypothesis that in older persons chronic depression as well as cognitive decline may be the consequence of the same underlying subcortical pathology.

Roorda, L.D., Roebroek, M.E., Van Tilburg, T.G., Lankhorst, G.J., & Bouter, L.M. (2004). Measuring activity limitations in climbing stairs: Development of a hierarchical scale for patients with lower-extremity disorders living at home. *Archives of Physical Medicine and Rehabilitation*, 85, 967-971. <http://dx.doi.org/10.1016/j.apmr.2003.11.018>

Objective. To develop a hierarchical scale that measures activity limitations in climbing stairs in patients with lower-extremity disorders living at home. Design. Cross-sectional study with Mokken scale analysis of 15 dichotomous items. Setting. Outpatient clinics of secondary and tertiary care centers. Participants. Patients (N = 759; mean age +/- standard deviation, 59.8 +/- 15.0y; 48% men) living at home, with different lower-extremity disorders: stroke, poliomyelitis, osteoarthritis, amputation, complex regional pain syndrome type I, and diabetic foot problems. Interventions. Not applicable. Main outcome measures (1) Fit of the monotone homogeneity model, indicating whether items can be used for measuring patients; (2) fit of the double monotonicity model, indicating invariant (hierarchical) item ordering; (3) intratest reliability, indicating repeatability of the sum score; and (4) differential item functioning, addressing the validity of comparisons between subgroups of patients. Results. There was (1) good fit of the monotone homogeneity model (coefficient H = .50) for all items for all patients, and for subgroups defined by age, gender, and diagnosis; (2) good fit of the double monotonicity model (coefficient HT = .58); (3) good intratest reliability (coefficient [rho] = .90); and (4) no differential item functioning with respect to age and

gender, but differential item functioning for 4 items in amputees compared with nonamputees. Conclusions. A hierarchical scale, with excellent scaling characteristics, has been developed for measuring activity limitations in climbing stairs in patients with lower-extremity disorders who live at home. However, measurements should be interpreted with caution when comparisons are made between patients with and without amputation.

Terhell, E.L., Broese van Groenou, M.I., & Van Tilburg, T.G. (2004). Network dynamics in the long-term period after divorce. *Journal of Social and Personal Relationships*, 21, 719-738.

<http://dx.doi.org/10.1177/0265407504047833>

This study first identified types of change in the size of the personal network over a period of 12 years following divorce. Second, differences in network change were explained by taking into account divorce characteristics, personal capacities, and structural conditions. Personal interviews were conducted in three waves of a 12-year longitudinal study with 40 men and 64 women who divorced in 1987 or 1988. Most divorcees experienced network losses shortly after the divorce and in half of the cases these losses were not compensated for in the later years after divorce. For some, divorce brought merely network gains, albeit in the longer term. Personal capacities and structural conditions did not differ significantly across participants in different types of network change. Characteristics of the divorce (attitude toward divorce and conflicts with the ex-partner after divorce) partly explained differences in network change after divorce.

Van Tilburg, T.G., Havens, B., & De Jong Gierveld, J. (2004). Loneliness among older adults in the Netherlands, Italy and Canada: A multifaceted comparison. *Canadian Journal on Aging*, 23, 169-180. [http://muse.jhu.edu/journals/canadian\\_journal\\_on\\_aging/toc/cja23.2.html](http://muse.jhu.edu/journals/canadian_journal_on_aging/toc/cja23.2.html)

Loneliness is experienced in many cultures. To properly assess cross-cultural differences, attention should be paid to the level, determinants and measurement of loneliness. However, cross-cultural studies have rarely taken into account more than one of these. Differences in the level of loneliness were hypothesized on the basis of national differences in partnership, kinship and friendship, which were assumed to be related to cultural standards within a society. Differences were examined among married and widowed older adults aged 70 to 89 years living independently in the Netherlands (N = 1847), Tuscany, Italy (N = 562) and Manitoba, Canada (N = 1134). Loneliness was measured with an 11-item scale. The Manitobans were high on emotional loneliness and the Tuscans were high on social loneliness. Partner status excepted, the determinants were nearly the same across the three locations. Differential item functioning (DIF) related to the three locations was observed for most items. Interactions with gender and the availability of a partner relationship were observed.

2003

Bisschop, M.I., Kriegsman, D.M.W., Van Tilburg, T.G., Penninx, B.W.J.H., Van Eijk, J.T.M., & Deeg, D.J.H. (2003). The influence of differing social ties on decline in physical functioning among older people with and without chronic diseases: The Longitudinal Aging Study Amsterdam. *Aging, Clinical and Experimental Research*, 15, 164-173.

Objectives. Global social support measures have been shown to be related to several health outcomes, but little is known about the effects of different social ties and their support on the risk for decline in physical functioning among older people without as compared to those with chronic diseases. This study examines whether different types of social ties and support differentially mitigate the negative effects of chronic diseases on decline in physical functioning. Methods. Using data from two cycles of the Longitudinal Aging Study Amsterdam (N = 2357), logistic regression analyses adjusted for baseline functioning, age, gender, and incidence of chronic diseases were conducted to assess the effect of different social ties for subgroups with different numbers of chronic diseases. Information about presence of different social ties included partner status and numbers of daughters, sons, other family members and non-kin relationships. Social support included instrumental and emotional support and the experience of loneliness. Decline in physical functioning was determined by substantial change after three years on a 6-item self-report scale. Results. Having a partner had a protective effect on decline in physical functioning in people without chronic diseases at baseline, but this was not found for those with chronic diseases. Total network size had an adverse effect in older people without chronic diseases, but a positive effect

when chronic diseases were present. This was mainly due to a positive effect for the number of daughters and non-kin relationships. Discussion. Our results provide evidence that different types of social relationships and the support they provide differentially influence the risk for decline in physical functioning in older people with or without a chronic disease.

Broese van Groenou, M.I., & Van Tilburg, T.G. (2003). Network size and support in old age: Differentials by socio-economic status in childhood and adulthood. *Ageing and Society*, 23, 625-635. <http://dx.doi.org/10.1017/S0144686X0300134X>

This paper examines the impact of childhood and adulthood socio-economic status (SES) on personal network characteristics in later life. Data are derived from 2,285 married older adults (born between 1903 and 1937) who participated in face-to-face interviews for the Dutch survey on 'Living arrangements and social networks of older adults' conducted in 1992. Childhood and adulthood SES were indicated by the father's and own level of education and occupation. Multivariate analyses showed that SES in adulthood has more impact on network features in old age than father's SES. People with lifetime low SES or with downward SES mobility had small networks, low instrumental and emotional support from non kin, but high instrumental support from kin when compared with the upwardly mobile or those with high lifetime SES. The level of education was a better indicator of network differences than occupational prestige. It is concluded that obtaining a high SES during life pays off in terms of having more supportive non kin relationships in old age. The small networks and less supportive non-kin relationships of low status older adults make them more vulnerable to situations in which kin are unavailable or less willing to provide support. This study underscores the distinction between types of support and types of relationships in the SES – network association. Further research on the social pathways of socio-economic inequality of health and wellbeing should take these distinctions into account.

Fokkema, T., & Van Tilburg, T.G. (2003). *Een vergelijkend effectonderzoek naar interventies ter voorkoming en vermindering van eenzaamheid onder ouderen: Tussenrapportage*. Nederlands Interdisciplinair Demografisch Instituut, Den Haag / Vrije Universiteit Amsterdam, Rapport uitgebracht aan de stichting Sluyterman van Loo. <http://hdl.handle.net/1871/18940>

Knipscheer, C.P.M., & Van Tilburg, T.G. (2003). Family characteristics and loneliness among older parents. In V.L. Bengtson & A. Lowenstein (Eds.), *Global aging and challenges to families* (pp. 143-158). Hawthorne, NY: Aldine de Gruyter. ISBN 9780202306872  
<http://hdl.handle.net/1871/19006>

Thomése, G.C.F., Van Tilburg, T.G., & Knipscheer, C.P.M. (2003). Continuation of exchange with neighbors in later life: The importance of the neighborhood context. *Personal Relationships*, 10, 535-550. <http://dx.doi.org/10.1046/j.1475-6811.2003.00064.x>

Relationships with neighbors are considered exchange relationships, in which the continuation of exchanges depends on balance in previous exchanges. Our study tested whether this is the case. An exchange relationship implies that neighbor relationships are isolated units. We expected, however, that neighborhood integration also affects the continuation of exchange among neighbors. Data were from a longitudinal study among 1,692 independently living Dutch adults of ages 55 to 85 years at baseline and their 7,415 relationships with proximate network members. At a four-year follow-up, both perceived balance and neighborhood integration at baseline increased the chance of instrumental support exchange occurring. We concluded that it is too limited to view relationships between neighbors as exchange relationships, as these relationships are embedded in larger communities, where such communities exist.

Van Tilburg, T.G. (2003). Consequences of men's retirement for the continuation of work-related personal relationships. *Ageing International*, 28, 345-358. <http://dx.doi.org/10.1007/s12126-003-1008-6> ISSN 0163-5158 (Print) 1936-606X (Online)

Retirement is an important life cycle marker and has a major impact on an individual's functioning. Based upon the social convoy model, it is hypothesized that retirement decreases the likelihood of continuation of coworker relationships. Socio-emotional selectivity theory predicts a decline in the number of peripheral relationships with aging and thereby in network size and number of coworker

relationships among working and retired people. Data comes from the Longitudinal Aging Study Amsterdam with five observations between 1992 and 2002. At baseline 226 men aged 54-81 years were employed; 166 men retired in the course of the study. The results of multilevel regression analyses showed a stable network size both for working and retired men. Among all men the number of work-related network members declined, but more strongly among retirees. It is concluded that the convoy model fits better with the data than socio-emotional selectivity theory.

2002

Aartsen, M.J., Smits, C.H.M., Van Tilburg, T.G., Knipscheer, C.P.M., & Deeg, D.J.H. (2002). Activity in older adults: Cause or consequence of cognitive functioning? A longitudinal study on everyday activities and cognitive performance in older adults. *Journal of Gerontology: Psychological Sciences*, 57B, P153-P162.

<http://psychsoc.gerontologyjournals.org/cgi/content/abstract/57/2/P153>

<http://dx.doi.org/10.1093/geronb/57.2.P153>

The impact of three types of everyday activities (i.e., social, experiential, and developmental) on four cognitive functions (i.e., immediate recall, learning, fluid intelligence, and information-processing speed) and one global indicator of cognitive functioning (Mini-Mental State Exam score) over a period of 6 years was studied in a large 55-85 year-old population-based sample (N = 2,076). A cross-lagged regression model with latent variables was applied to each combination of 1 cognitive function and 1 type of activity, resulting in 15 (3 x 5) different models. None of the activities were found to enhance cognitive functioning 6 years later when controlling for age, gender, level of education, and health, as well as for unknown confounding variables. Conversely, one cognitive function (i.e., information-processing speed) appeared to affect developmental activity. It is suggested that no specific activity, but rather socioeconomic status to which activities are closely connected, contributes to maintenance of cognitive functions.

Van Tilburg, T.G., & Bloem, B.A. (2002). Kenmerken van wonen, woning en verhuizen. In D.J.H. Deeg & L.M. Horn (Red.), *Ouderen in de toekomst* (pp. 14-17). Vrije Universiteit Amsterdam, Rapport uitgebracht aan de Directie Verpleging, Verzorging en Ouderen, Ministerie van Volksgezondheid, Welzijn en Sport. <http://hdl.handle.net/1871/19011>

Deeg, D.J.H., Van Tilburg, T.G., Smit, J.H., & De Leeuw, E.D. (2002). Attrition in the Longitudinal Aging Study Amsterdam: The effect of differential inclusion in side studies. *Journal of Clinical Epidemiology*, 55, 319-328. [http://dx.doi.org/10.1016/S0895-4356\(01\)00475-9](http://dx.doi.org/10.1016/S0895-4356(01)00475-9)

This study addresses the relation between attrition and characteristics of the study protocol, specifically contact frequency, and respondent burden. The study is based on data from a longitudinal study with side studies on various topics, so that respondents have differential exposure to these study characteristics. Attrition outcomes are refusal and ineligibility through frailty. The effect of side study contact frequency and respondent burden on these outcomes is examined in two analytical samples: (1) baseline participants surviving to the first follow-up after 10 months (sample I), and (2) first follow-up participants surviving to the second follow-up after 3 years (sample II). Attrition during the first study interval was higher than during the second study interval, 15.5 and 5.4%, respectively. In sample I, the request to participate in a side study on social network implied an increased risk of refusal to participate at first follow-up if subjects refused the request (RR 8.34). However, if subjects participated in the network study, their risk of refusal was decreased (RR 0.42). In sample II, requests to participate in one to four side study cycles increased the risk of refusal to participate at second follow-up if subjects participated in fewer cycles than requested (RR 9.21). If subjects participated in all side study cycles that they were approached for, even if the number of cycles was five or more, this had an opposite effect: it decreased the risk of refusal (RR 0.18). Ineligibility was not significantly associated with contact frequency or respondent burden. Furthermore, neither contact frequency nor respondent burden related refusal was selective with respect to socio-demographic characteristics and physical and mental health indicators. It is concluded that contact frequency is nonlinearly associated with attrition. The findings further suggest that designing a series of side studies within the "longitudinal paradigm" does not severely damage the study's validity in terms of selective attrition.

Van Tilburg, T.G. (2002). Commentary: Heterogeneity in late life. *Newsletter of the International Society for the Study of Behavioural Development*, 41, 1, 19. <http://hdl.handle.net/1871/18941>

Van Tilburg, T.G., & Broese van Groenou, M.I. (2002). Network and health changes among older Dutch adults. *Journal of Social Issues*, 58, 697-713. <http://dx.doi.org/10.1111/1540-4560.00041>  
A negative effect of good health on the instrumental support received can be viewed as an effect of the mobilization of helpers. A positive effect of good health on the personal network size and the instrumental support given demonstrates that people in poor health have difficulty actively maintaining their relationships. Furthermore, the support received and given is positively related to the support given and received in the past. In four waves of a seven-year longitudinal study, personal interviews were conducted with 2,302 older Dutch adults (aged 60 to 85) who live on their own. The hypotheses have been confirmed. An implication is that investing in relationships by giving support might pay off in times of need.

2001

Terhell, E.L., Broese van Groenou, M.I., & Van Tilburg, T.G. (2001). Verschillen in het steunnetwerk en de sociale participatie van gescheiden mannen en vrouwen [Differences in the support network and social participation of divorced men and women]. *Sociale Wetenschappen*, 44, 2, 93-114. <http://hdl.handle.net/1871/18950>

In dit onderzoek worden verschillen in het steunnetwerk en de sociale participatie van (ooit) gescheidenen verklaard vanuit partnerstatus, kenmerken van de huidige levenssituatie, het (verbroken) huwelijk, en persoonlijkheid. In 1998 werden in het kader van het survey 'Scheiden in Nederland' 722 mannen en 1073 vrouwen, gescheiden tussen 1947 en 1997, ondervraagd. Steunnetwerken van alleenstaande vrouwen omvatten het grootste aandeel familieleden en het kleinste aandeel nieuwe relaties. Alleenstaande mannen hadden de minste familieleden en mannen die samenwonen met een partner hadden de meeste nieuwe steunrelaties. Degenen die samenwonen met een partner scoorden hoger op aspecten van sociale participatie dan alleenstaanden. Multivariate regressieanalyses toonden aan dat voor zowel mannen als vrouwen verschillen in het steunnetwerk en sociale participatie vooral verklaard worden door structurele condities in het heden (beschikbaarheid van een partner, opleidingsniveau, betaald werk en zorg voor thuiswonende kinderen) en in mindere mate door kenmerken van het verbroken huwelijk (overlap huwelijksnetwerken) en persoonlijkheid (extraversie).

The study explains differences in the support network and social participation of divorced men and women by taking into account partner status, current living conditions, characteristics of the disrupted marriage, and personality. A sample of 722 men and 1073 women, divorced between 1947 and 1997 in the Netherlands, participated in a survey conducted in 1998. Support networks of single women contained the largest proportion of kin and the smallest proportion of post-divorce contacts. Single men had the least kin and men living with a new partner had the most post-divorce contacts. Compared to single men and women those living with a partner had higher rates of social participation. Multivariate regression analyses indicated that, for both men and women, differences in network features and social participation after divorce were best explained by current structural conditions (availability of a partner, level of education, employment and child care), and to a lesser degree by characteristics of the disrupted marriage (overlap in marital networks) and by one's personality (extraversion).

Terhell, E.L., Broese van Groenou, M.I., & Van Tilburg, T.G. (2001). Steun na scheiding: Een kwestie van persoonlijkheid? [Support after divorce: A matter of personality?] *Nederlands Tijdschrift voor de Psychologie*, 56, 166-176. <http://hdl.handle.net/1871/18949>

Divorce is a life transition that is attended by major changes in the structure of the personal network. This study is aimed at (1) describing differences in the number of emotional and instrumental supportive relations between married, divorced, and remarried men and women in the Netherlands, and (2) explaining these differences by taking into account differences in extraversion and emotional stability. Cross-sectional data were analyzed on supportive relations of a representative sample of 2346 married and divorced (single as well as remarried) men and women who participated in a large survey conducted in the Netherlands in 1998-1999. Results show that the divorced who remained single had the largest support networks. Networks of the married and

remarried comprised equal numbers of supporters. Personality characteristics offered a relatively small though unique contribution to the explanation of differences in the number of supporters. Respondents high in extraversion had a relatively large number of emotional and instrumental supporters. The emotionally stable had relatively small numbers of emotional supporters and the emotionally stable divorced relatively large numbers of instrumental supporters.

Scheiding is een ingrijpende gebeurtenis met een grote impact op het aantal persoonlijke relaties. Dit artikel richt zich op het verklaren van verschillen in aantal steunrelaties vanuit scheiding c.q. hertrouw, sekse, en persoonlijkheid. In 1998 zijn in het kader van het survey 'Scheiden in Nederland' 2346 gehuwde en (ooit) gescheiden mannen en vrouwen ondervraagd. Multivariate analyses laten zien dat alleen staan na een scheiding, afzonderlijk en in combinatie met sekse en persoonlijkheid, van belang is voor het aantal steunrelaties. Verschillen tussen hertrouwen en gehuwden werden niet gevonden. Persoonlijkheid levert kleine unieke bijdrage aan de verklaring van verschillen in het aantal steunrelaties. Extraversie draagt bij, voor zowel gescheidenen als gehuwden en hertrouwen, aan een groter aantal emotionele en instrumentele steunrelaties. Emotionele stabiliteit draagt voor een ieder bij aan een kleiner aantal emotionele steunrelaties. Alleen voor alleenstaande gescheidenen draagt emotionele stabiliteit bij aan een groter aantal emotionele steunrelaties. Steun blijkt deels een kwestie van persoonlijkheid, ook na scheiding.

Van der Zouwen, J., & Van Tilburg, T.G. (2001). Reactivity in panel studies and its consequences for testing causal hypotheses. *Sociological Methods & Research*, 30, 35-56.

<http://dx.doi.org/10.1177/0049124101030001003>

The procedure of standardized repeated measurement, as used in panel studies, may hamper the quality of the data, due to the potential 'reactivity' of survey interviewing on respondents' attitudes and behavior. In case respondents are interviewed in subsequent waves by different interviewers, differential interviewer effects may occur. These threats to data quality are illustrated with data from a longitudinal study among 2,819 older adults, conducted in The Netherlands. From an analysis of 100 interview protocols it appears that the behavior of the interviewers has a significant impact on the data obtained. Interviewers seem to adjust their interviewing strategy, on the one hand to a norm regarding a 'normal' personal network, and on the other hand to a norm about the appropriate interviewing time. Suggestions are formulated to prevent misestimating of actual change within respondents over time leading to incorrect conclusions about causal relationships.

2000

Aartsen, M.J., Van Tilburg, T.G., & Smits, C.H.M. (2000). Cognitieve achteruitgang: Ook verlies van het persoonlijk netwerk? In D.J.H. Deeg, R.J. Bosscher, M.I. Broese van Groenou, L.M. Horn, & C. Jonker (Eds.), *Ouder worden in Nederland: Tien jaar Longitudinal Aging Study Amsterdam* (pp. 183-191). Amsterdam: Thela-thesis. <http://hdl.handle.net/1871/18952>

Stevens, N.L., & Van Tilburg, T.G. (2000). Stimulating friendship in later life: A strategy for reducing loneliness among older women. *Educational Gerontology*, 26, 15-35.

<http://dx.doi.org/10.1080/036012700267376>

In order to promote well-being and alleviate loneliness among older women, a course was developed to help them improve or develop new friendships. Thirty-two participants in the course were interviewed on their friendships and loneliness at two points in time, immediately following the course and a year later. Loneliness scores were compared to those of a matched control group. Both groups were very lonely initially and demonstrated a significant reduction in loneliness a year later. However, more women in the friendship course were successful in reducing their loneliness; a majority had made new friends, slightly less than half had improved existing friendships. There was a significant increase in the complexity of their friendship networks following the course.

Thomése, G.C.F., & Van Tilburg, T.G. (2000). Neighbouring networks and environmental dependency: Differential effects of neighbourhood characteristics on the relative size and composition of neighbouring networks of older adults in The Netherlands. *Ageing and Society*, 20, 55-78. <http://dx.doi.org/10.1017/S0144686X9900762X>

The effects of four social-structural neighbourhood characteristics on the relative size and the

composition of neighbouring networks are tested in a sample of 3,504 older adults born between 1908 and 1937 and living in three regions in the Netherlands. Interactions with individual income and ADL capacity are included in multilevel regression analyses, to test effects of older adults' environmental dependency. Population density and residential mobility both have a negative effect on the relative size of neighbouring networks, and the effect of urbanisation is strongest among poorer respondents. These findings suggest first that the structural effects of urbanisation work at the level of concentration vs. dispersion of personal networks, and second that there is no general mechanism of environmental dependency.

Van Tilburg, T.G. (2000). Persoonlijke relatienetwerken van ouderen: Een inleiding. In D.J.H. Deeg, R.J. Bosscher, M.I. Broese van Groenou, L.M. Horn, & C. Jonker (Eds.), *Ouder worden in Nederland: Tien jaar Longitudinal Aging Study Amsterdam* (pp. 131-136). Amsterdam: Thela. <http://hdl.handle.net/1871/18953>

Van Tilburg, T.G., Aartsen, M.J., & Knipscheer, C.P.M. (2000). Gevolgen van veranderingen in fysiek functioneren voor het persoonlijk relatienetwerk bij het ouder worden [Effects of a change in physical capacity on the personal network among older adults]. *Tijdschrift voor Gerontologie en Geriatrie*, 31, 190-197. <http://hdl.handle.net/1871/18951>

The aim of the research is to assess whether there is change in the size and composition of older adults' personal network. Furthermore, change in contact frequency and received instrumental support within the relationships is studied. Five relationship types are distinguished: children, other kin, friends, neighbors and acquaintances. Older adults with a decline in physical capacity are compared with those with stable and increased capacities. Furthermore, differences according to (change in) partner status and age are investigated. Data are from the Longitudinal Aging Study Amsterdam, including the first and fourth observation of 1634 older adults living independently. The observation interval is 7 years. A decline in physical capacities is observed for 35% of the older adults, the capacities are stable for 60% and an increase is observed for 5%. In general, network size and composition did not change. The frequency of contact within the relationships decreased. Decline was high for parent - child relationships, but relatively low among older adults who faced a moderate to strong physical decline. Among older adults who did not have a partner at the fourth observation and among the oldest the frequency of contact with children increased independent from the degree of physical decline. The decline in contact with neighbors was nearly absent for older adults who faced a moderate to strong physical decline; the contact increased when there was no partner at the fourth observation. The instrumental support received increased within all relationship types, independent from the degree of physical decline. It is concluded that research into determinants of the decline in parent-child contacts is needed and that the meaning of neighbors should receive attention.

1999

Broese van Groenou, M.I., Van Tilburg, T.G., & De Jong Gierveld, J. (1999). Eenzaamheid bij ouderen en kenmerken van de omgeving [Loneliness among older adults: Geographical and neighborhood characteristics]. *Mens & Maatschappij*, 74, 235-249.

The question of interest is whether differences between regions, rural and urban communities and neighbourhoods contribute to older adult loneliness, when their health and social circumstances are also taken into account. The data are from nine research projects involving older persons in several regions in the Netherlands. Six were carried out by Community Health Departments (GGD's) in 's-Hertogenbosch, Oss, Drenthe, Nijmegen, the Achterhoek and in the city triangle Apeldoorn-Deventer-Zutphen. Three other data sets are from the NESTOR-program 'Living arrangements and social networks of older adults' (LSN), in which older adults in Amsterdam and surroundings, Zwolle and surroundings and Oss and surroundings, participated. The LSN-respondents were distinguished by region, leading to three sub-populations (LSN-West, LSN-East and LSN-South). Multivariate multilevel regression analysis show that, controlling for the health and social circumstances of the older adults, regional differences in loneliness are small, and that living in an urbanised area and in a neighbourhood with relatively few older people, contributes to more intense feelings of loneliness.

De Jong Gierveld, J., & Van Tilburg, T.G. (1999). Living arrangements of older adults in the Netherlands and Italy: Coresidence values and behaviour and their consequences for loneliness. *Journal of Cross-Cultural Gerontology*, 14, 1-24. <http://dx.doi.org/10.1023/A:1006600825693>

Value studies indicate that the process of individualization in Europe started in Sweden and Norway, and continued via France and the Netherlands; the southern European countries lag behind, and are still characterized by more traditional family orientations. Starting from this point of view, this paper investigates the effects of differences between the Netherlands and Italy in the field of living arrangements of older adults with and without partners. The consequence of living alone and of coresidence with adult children have been further investigated, using loneliness as the dependent variable. The size and support functions of the network of social relationships, socioeconomic resources, health, sex and age are also taken into account. Data come from face-to-face surveys among a random sample of older adults (55 to 89 year old women and men) in the Netherlands (N = 4,494) and in Italy (N = 1,570), using the same research design and questionnaire. The data show country-specific differences in household types of older adults: The proportion living alone is much higher among older people without partners in the Netherlands; the proportion coresiding with their adult children is higher in Italy than in the Netherlands. Controlling for age, health, sex, size and support of the network, and for differences in socioeconomic resources, household composition is still the most important determinant of loneliness. Living without a partner in the same household as one's adult children yields country-specific correlations that correspond with differences in value orientations: less loneliness in Italy, more loneliness in the Netherlands.

De Jong Gierveld, J., & Van Tilburg, T.G. (1999). *Manual of the Loneliness Scale*. Dept. of Social Research Methodology, Vrije Universiteit Amsterdam. ISBN 90-9012523-X. [Full text http://hdl.handle.net/1871/18954](http://hdl.handle.net/1871/18954)

Klein Ikkink, C.E., & Van Tilburg, T.G. (1999). Broken ties: Reciprocity and other effects on the ending of older adult's relationships. *Social Networks*, 21, 131-146. [http://dx.doi.org/10.1016/S0378-8733\(99\)00005-2](http://dx.doi.org/10.1016/S0378-8733(99)00005-2)

Exchange theory assumes that people prefer balanced support exchanges in their relationships. If there is an imbalance and no expectation of change in the future, a relationship might be terminated. The question is which relationships are discontinued. The data are from a longitudinal study of 2,057 older adults who identify 18,915 relationships at T1. A relationship is regarded as discontinued if it is not identified by the older adult at the second and third measurement moments. Of the T1 relationships, 4,042 have since been discontinued. The results of a multilevel logistic regression analysis show that the more intensive the support exchanges are at T1, the more likely it is for relationships to be continued. Relationships where older adults are overbenefited with instrumental support, i.e. receive more than they give, have a higher chance of being continued. However, if older adults are overbenefited with emotional support, this decreases the chance of the relationships continuing. The type of relationship has a significant effect on whether or not it is continued. Close kin relationships are most likely to be continued, and relationships with less close kin, friends and neighbors have a higher chance of being discontinued. The costs of the relationship are also decisive; the higher the contact frequency and the lower the traveling time to the network member, the higher the chance of the relationship being continued. Furthermore, the larger the network of the older adult, the more likely it is for an unbalanced relationship to be discontinued.

Klein Ikkink, C.E., Van Tilburg, T.G., & Knipscheer, C.P.M. (1999). Perceived instrumental support exchanges in relationships between elderly parents and their adult children: Normative and structural explanations. *Journal of Marriage and the Family*, 61, 831-844. <http://dx.doi.org/10.2307/354006>

If the norm of filial responsibility is apparent, children should give relatively much instrumental support to their parents. Structural circumstances of adult children such as being employed or having young children, and of their parents such as having small families influence the amount of instrumental support the elderly parents receive. Data are from a sample of 365 elderly adults and 634 of their children. The higher the filial responsibility of both parent and children, the more support the parent receives. Mothers, old parents, parents in need of support and without a partner

receive relatively much support. The structural circumstances of the children do not have any effect on parent's receipts. Reciprocity is an important determinant of the support the parent receives.

Penninx, B.W.J.H., Van Tilburg, T.G., Kriegsman, D.M.W., Boeke, A.J.P., Deeg, D.J.H., & Van Eijk, J.T.M. (1999). Social network, social support, and loneliness in older persons with different chronic diseases. *Journal of Aging and Health*, 11, 151-168.

<http://jah.sagepub.com/cgi/reprint/11/2/151> <http://dx.doi.org/10.1177/089826439901100202>

Objective: This study examines whether patterns of social network size, functional social support and loneliness are different for older persons with different types of chronic diseases. Methods: In a community-based sample of 2,788 men and women aged 55 to 85 years participating in the Longitudinal Aging Study Amsterdam, chronic diseases status, social network size, support exchanges and loneliness were assessed. Results: Social network size and emotional support exchanges were not associated with disease status. The only differences between healthy and chronically ill people were found for receipt of instrumental support and loneliness. Disease characteristics played a differential role: higher feelings of loneliness was mainly found for persons with lung disease or arthritis, and receiving more instrumental support was mainly found for persons with arthritis or stroke. Discussion: The specifics of a disease appear to play a (small) role in the receipt of instrumental support and feelings of loneliness of chronically ill older persons.

Van Tilburg, T.G. (1999). Changes over time in the personal networks and health of older adults. *Gedrag & Gezondheid*, 27, 61-66.

Changes in the networks and the health of a general sample of 2,903 Dutch older adults were studied, based on three observations with a total time span of four years. The better the functional capacity and the self-rated health of the old people, the larger their network was, the less instrumental support was received from their network members, and the more instrumental support was given. The positive effect of poor health on instrumental support received can be considered as an effect of the mobilization of helpers. The negative effect of poor health on instrumental support given, reflects the fact that people in poor health have difficulty in actively maintaining their relationships. Both tendencies affect the network size in different directions, which might be a reason for the relatively small effect of health on the network size. An extended version is published as: Van Tilburg, T.G. (1998). Changes over time in the personal networks and health of older adults. In D.J.H. Deeg, A.T.F. Beekman, D.M.W. Kriegsman, & M. Westendorp-de Serière (Eds.), *Autonomy and well-being in the aging population II: Report from the Longitudinal Aging Study Amsterdam 1992-1996* (pp. 123-140). Amsterdam: VU University Press.

Van Tilburg, T.G., & De Jong Gierveld, J. (1999). Cesuurbepaling van de eenzaamheidsschaal [Cutting scores on the De Jong Gierveld Loneliness Scale]. *Tijdschrift voor Gerontologie en Geriatrie*, 30, 158-163.

Deze bijdrage is gericht op een cesuurbepaling van de meting van eenzaamheid met de schaal van De Jong Gierveld. Gegevens van 3823 zelfstandig wonende mondeling ondervraagden (54-89 jaar) zijn geanalyseerd. Gebruik is gemaakt van een zelfindicatie van eenzaamheid. Daarmee is, meer dan het geval is bij een willekeurige cesuurbepaling, aangesloten bij de beleving van individuen. Van de ouderen in Nederland is 68% niet, 28% matig en 4% sterk eenzaam. In eerder onderzoek werd een veel lagere cesuur gehanteerd en werd derhalve een veel groter aantal eenzamen gevonden.

This article focuses on the cutting scores for the measurement of loneliness on the Loneliness Scale (De Jong Gierveld & Kamphuis, 1985). A cutting score is used to distinguish the lonely from the not lonely. Data have been analyzed relating to interviews with 3,823 respondents (54-89 years old) who live independently. Use has been made of the individuals' self-assessed level of loneliness. More than would be the case with arbitrary cutting scores, this is in keeping with the individuals' own perception. The figures show that 68% of the elderly persons in the Netherlands are not lonely, 28% are moderately lonely, and 4% are quite lonely. Previous research used a lower cutting score and, consequently, observed that much more people are lonely.

1998

Braam, A.W., Deeg, D.J.H., Van Tilburg, T.G., Beekman, A.T.F., & Van Tilburg, W. (1998). Gerotranscendentie en het competentie-model: Eerste verkenningen in Nederland. In P.W. Huijbers & M.M. van Santvoort, *Ouder worden '98*. Utrecht: Nederlands Instituut voor Gerontologie. ISBN 90-70911-39-5

Braam, A.W., Deeg, D.J.H., Van Tilburg, T.G., Beekman, A.T.F., & Van Tilburg, W. (1998). Gerotranscendentie als levensperspectief: Een eerste empirische benadering bij ouderen in Nederland [Gerotranscendence as a life cycle perspective: A first empirical approach among older adults in the Netherlands]. *Tijdschrift voor Gerontologie en Geriatrie*, 29, 24-32.

<http://hdl.handle.net/1871/18956>

Gerotranscendence has been defined as a shift in meta-perspective, from a materialistic and rationalistic perspective to a more cosmic and transcendent one that accompanies the process of aging. The present study describes scale characteristics of the Dutch translation of Tornstam's gerotranscendence scale, using data from a sample among adults aged 56-76 years (N=556). Two subscales evolve from scale analysis, similar to those found by Tornstam: cosmic transcendence and egotranscendence. Scores on both subscales are higher for the older old, as well as for the unmarried, divorced or widowed respondents who suffer from physical impairments. Scale scores are also higher for respondents with depressive complaints. On the subscale cosmic transcendence Roman Catholics have higher scores than Protestants and non-church members. On the subscale egotranscendence well educated respondents and those with few social contacts have higher scores than persons with less education and those with many contacts. The strength of the associations is modest and the variance explained is small. The findings warrant further research into the question whether gerotranscendence adds to competence in later life.

Deeg, D.J.H., Smits, C.H.M., Van Tilburg, T.G., & Beekman, A.T.F. (1998). Empirische dimensies van autonomie bij ouderen. In P.W. Huijbers & M.M. van Santvoort, *Ouder worden '98*. Utrecht: Nederlands Instituut voor Gerontologie. ISBN 90-70911-39-5

Klein Ikkink, C.E., & Van Tilburg, T.G. (1998). Do older adults' network members continue to provide instrumental support in unbalanced relationships? *Journal of Personal and Social Relationships*, 15, 59-75. <http://dx.doi.org/10.1177/0265407598151004>

Exchange theory assumes that people strive towards a balance in their personal relationships. The question is why the balance is not restored in unbalanced relationships where older adults receive more instrumental support than they give. The data are from a longitudinal study of 408 older adults and 2044 of their network members. At T1, the older adults received more instrumental support than they gave in 335 (17%) of their relationships. The instrumental support balance in these relationships at T1 was also assessed. The results of a multilevel regression analysis show that network members continue giving support to older adults who are in poor health. If the network member is in poor health, the balance is likely to be restored. Four other reasons for continuing the imbalance were also examined. No evidence was found to back the idea that a lack of instrumental reciprocity could be compensated by the older adults giving more emotional support. The second hypothesis (that close relationships often involve social norms that make it difficult to withdraw from unreciprocated support giving) was confirmed: in kin relationships and friendships, the imbalance persisted over time, while neighbor and other non-kin relationships returned to balance. Thirdly, it was hypothesized that if there were a small number of alternative supporters, it would be hard to withdraw from unreciprocated support giving. However, it was found that if the network was small, the imbalance was not likely to endure. Finally, as predicted, if there was generalized network reciprocity, the balance in particular relationships was not restored.

Klein Ikkink, C.E., Van Tilburg, T.G., & Knipscheer, C.P.M. (1998). Instrumentele steunuitwisselingen tussen ouderen en hun volwassen kinderen: Normatieve en structurele verklaringen. In P. W. Huijbers & M. M. van Santvoort (Eds.), *Ouder worden '98*. Utrecht: Nederlands Instituut voor Gerontologie. ISBN 90-70911-39-5

Knipscheer, C.P.M., Dykstra, P.A., Van Tilburg, T.G., & De Jong Gierveld, J. (1998). Leefvormen en sociale netwerken van ouderen: Een selectie van bevindingen uit een NESTOR-studie [Living arrangements and social networks of older adults: A selection of findings from a NESTOR-study]. *Tijdschrift voor Gerontologie en Geriatrie*, 29, 110-119. <http://hdl.handle.net/1871/18957>

This article presents an overview of the design and results of the NESTOR survey 'Living Arrangements and Social Networks of Older Adults', an empirical study, started in 1992, among a representative sample of 4494 people, aged 55-89, selected from the population registers of 11 municipalities in the Netherlands. Questions were asked about living arrangements, the composition and functions of social networks, and important transitions in the marital, parental and occupational careers. The results indicated a wide diversity in living arrangements and social networks, a diversity which is particularly visible among the young old. They not only have larger networks, but are also more likely to live alone, to be divorced and to participate in shared housing arrangements. The networks vary considerably in size, from 0 to more than 40 important relationships. The decrease in network size with age appears to be directly related to specific life events such as widowhood, physical handicaps, residential moves etc. About 2/3 of the relationships are family relationships: parents, children (in law), grandchildren (in law), brothers and sisters (in law), uncles and aunts. Older people tend to be in touch at least once a month with the majority of close family members. The intensity of supportive exchanges (giving and receiving instrumental and emotional support in the twelve relationships with the highest levels of contact) is moderate, however mostly in balance. Only the very old receive somewhat more instrumental support and give considerably less than the 'young-old'. We studied the shift in balance between giving and receiving over a period of 12 months among a small proportion of the sample, checking a central hypothesis of exchange theory. In some cases a new balance evolves. In others the relationship continues to exist for a number of reasons, despite the imbalance. Early life experiences appear to be important for later life outcomes. Those who experienced the divorce of their parents before the age of 15 or those whose parents lived apart permanently (e.g. unmarried mothers) have a smaller social network and feel more lonely. Marital history has an impact on patterns of informal and formal care. E.g., those respondents without a partner who have children are less likely to use formal care than those who are childless. Among divorced elderly the use of formal care not only varies between men and women but also differs according to the marriage in which the children are born, first or second marriage. Occupational history is strongly related to the income level of older women living alone.

Knipscheer, C.P.M., Van Tilburg, T.G., & Broese van Groenou, M.I. (1998). Scenario: Social involvement and aging. In D.J.H. Deeg, A.T.F. Beekman, D.M.W. Kriegsman, & M. Westendorp-De Serière (Eds.), *Autonomy and well-being in the aging population II: Report from the Longitudinal Aging Study Amsterdam 1992-1996* (pp. 117-121). Amsterdam: VU University Press. ISBN 90-50383622-5

Penninx, B.W.J.H., Van Tilburg, T.G., Boeke, A.J.P., Deeg, D.J.H., Kriegsman, D.M.W., & Van Eijk, J.T.M. (1998). Effects of social support and personal coping resources on depressive symptoms: Different for various chronic diseases? *Health Psychology*, 17, 551-558. [Full text http://dx.doi.org/10.1037/0278-6133.17.6.551](http://dx.doi.org/10.1037/0278-6133.17.6.551)

Effects of psychosocial coping resources on depressive symptoms were examined and compared in older persons with no chronic disease or with recently symptomatic diabetes mellitus, lung disease, cardiac disease, arthritis, or cancer. The 719 persons without diseases reported less depressive symptoms than the chronically ill. Direct favorable effects on depressive symptoms were found for having a partner, having many close relationships, greater feelings of mastery, greater self-efficacy expectations, and high self-esteem. Buffer effects were observed for feelings of mastery, having many diffuse relationships, and receiving emotional support. Buffer effects were differential across diseases for emotional support (in cardiac disease and arthritis only) and for diffuse relationships (in lung disease). Receiving instrumental support was associated with more depressive symptoms, especially in diabetes patients.

Van Tilburg, T.G. (1998). Losing and gaining in old age: Changes in personal network size and social support in a four-year longitudinal study. *Journal of Gerontology: Social Sciences*, 53B, S313-S323. <http://dx.doi.org/10.1093/geronb/53B.6.S313>

Objectives. Previous studies have shown that most older people have a significant number of relationships. However, the question of whether the aging of old people produces losses in their personal network remains open for discussion. This study models the individual variability of the changes affecting multiple personal network characteristics. Methods. Personal interviews were conducted with 2,903 older Dutch adults (aged 55-85) in three waves of a four-year longitudinal study. Results. A stable total network size was observed, with an increasing number of close relatives and a decreasing number of friends. Contact frequency decreased in relationships, and the instrumental support received and emotional support given increased. Age moderated the effect of time for some of the network characteristics and for many of them, effects of regression towards the mean were detected. Furthermore, major variations in the direction and the speed of the changes were detected among individual respondents, and non-linear trends were observed. Discussion. The widely varying patterns of losses and gains among the respondents squares with the focus on the heterogeneity of developments among aging people. The instability of the network composition might reflect the natural circulation in the membership of networks.

Van Tilburg, T.G. (1998). Changes over time in the personal networks and health of older adults. In D.J.H. Deeg, A.T.F. Beekman, D.M.W. Kriegsman & M. Westendorp-De Serière (Eds.), *Autonomy and well-being in the aging population II: Report from the Longitudinal Aging Study Amsterdam 1992-1996* (pp. 123-140). Amsterdam: VU University Press. ISBN 90-50383622-5

<http://hdl.handle.net/1871/18955>

Changes in the networks and the health of a general sample of 2,903 Dutch older adults were studied, based on three observations with a total time span of four years. The better the functional capacity and the self-rated health of the old people, the larger their network was, the less instrumental support was received from their network members, and the more instrumental support was given. The positive effect of poor health on instrumental support received can be considered as an effect of the mobilization of helpers. The negative effect of poor health on instrumental support given, reflects the fact that people in poor health have difficulty in actively maintaining their relationships. Both tendencies affect the network size in different directions, which might be a reason for the relatively small effect of health on the network size.

Van Tilburg, T.G. (1998). Interviewer effects in the measurement of personal network size: A nonexperimental study. *Sociological Methods & Research*, 26, 300-328.

<http://dx.doi.org/10.1177/0049124198026003002>

Methods for delineating personal networks in surveys contain complex instructions for the interviewers. It is assumed that the interviewers' experience and education influence their ability to follow these instructions. The magnitude of the interviewer effects on the personal network size has been investigated, and differences among interviewers have been explained on the basis of their experience and education. The data are from a survey among 4,059 older adults in the Netherlands interviewed in 1992 by 87 interviewers. A strong interviewer effect was observed. Furthermore, the results of a multilevel regression analysis showed that, controlled for respondent characteristics, well-educated interviewers with minor experience prior to the project and major experience within the project (i.e. the high sequence number of the interview) generated relatively large networks.

Van Tilburg, T.G. (1998). Reciprociteit in intergenerationele relaties van ouderen. In P. W. Huijbers & M. M. van Santvoort (Eds.), *Ouder worden '98*. Utrecht: Nederlands Instituut voor Gerontologie. ISBN 90-70911-39-5 <http://hdl.handle.net/1871/18958>

Van Tilburg, T.G., De Jong Gierveld, J., Lecchini, L., & Marsiglia, D. (1998). Social integration and loneliness: A comparative study among older adults in the Netherlands and Tuscany, Italy. *Journal of Personal and Social Relationships*, 15, 740-754. <http://dx.doi.org/10.1177/0265407598156002>

On the average, older adults in Italy are lonelier than those in the Netherlands. The results of a study by Jylhä & Jokela (1990) showed that loneliness was more prevalent in regions of Europe where living alone was rarest and where community bonds were strongest. This inverse macro-level association, an increasing proportion of lonely older people and a decreasing proportion of older people who live alone from northern to southern Europe, could not be explained by differences in individual social integration. The aim of the current study was to reinvestigate this

association. The data were from surveys conducted in the Netherlands (N = 3,750) and northwestern Tuscany, Italy (N = 1,543). Fewer older adults lived alone in Tuscany than in the Netherlands, indicating that the Dutch were less integrated. As regards their participation in social organizations and personal networks, the Tuscan older adults were less integrated. To a large extent, loneliness among the Dutch and Tuscans based on differences in social integration could be similarly explained, and regional loneliness differences could be attributed to individual situations and characteristics.

1997

Beekman, A.T.F., Deeg, D.J.H., Van Tilburg, T.G., Schoevers, R.A., Smit, J.H., Hooijer, C., & Van Tilburg, W. (1997). Depressie bij ouderen in de Nederlandse bevolking: Een onderzoek naar de prevalentie en risicofactoren [The prevalence and risk factors associated with major and minor depression in later life]. *Tijdschrift voor Psychiatrie*, 39, 294-308. <http://hdl.handle.net/1871/18942>  
Studied depression at the syndrome level and at the diagnostic level in a large random sample of older adults as part of the Longitudinal Aging Study Amsterdam (Deeg et al, 1993). Human Ss: 3,056 male and female Dutch middle-age, old, and very old adults (aged 55-85 yrs) (major depression in some Ss) (residents of 3 regions of the Netherlands). Ss were interviewed. A 2-stage screening procedure was used to diagnose depression. The Diagnostic and Statistical Manual of Mental Disorders-III (DSM-III) criteria for major depression were used. Tests used: The Center for Epidemiologic Studies Depression Scale, the Diagnostic Interview Schedule; National Institute of Mental Health and the Mini-Mental State Examination.

Braam, A.W., Beekman, A.T.F., Van Tilburg, T.G., Deeg, D.J.H., & Van Tilburg, W. (1997). Religious involvement and depression in older Dutch citizens. *Social Psychiatry and Psychiatric Epidemiology*, 32, 284-291. <http://dx.doi.org/10.1007/BF00789041>  
Examined the association between religious involvement and depression in older Dutch citizens, focusing on models of the mechanism in which religious involvement impacts other factors related to depression. Ss were 2,817 older adults aged 55-85 years living in the community who participated in the Longitudinal Aging Study Amsterdam. Depressive symptoms were assessed using the Center for Epidemiologic Studies Depression Scale, and religious involvement was assessed using items on frequency of church attendance and strength of church affiliation. Further data were collected on physical health, size of social network, social support, sense of mastery, and self-esteem. As in North American studies, religious involvement appeared to be inversely associated with depression, both on symptom and syndrome levels. Controlling for sociodemographics, physical impairment and network support did not substantially affect this association, particularly among 75-85 year old Ss. The inverse association between religious involvement and depression was not selectively more pronounced among older people with physical impairments. However, the association appeared to be most specific for Ss with a small social network and those with a low sense of mastery.

Broese van Groenou, M.I., & Van Tilburg, T.G. (1997). Changes in the support networks of older adults in the Netherlands. *Journal of Cross-Cultural Gerontology*, 12, 23-44. <http://dx.doi.org/10.1023/A:1006580708223>  
Examined the type and stability of social support networks providing instrumental and/or emotional support to a sample of 2,709 older Dutch adults aged 55-89 yrs. Results show that the hierarchy of instrumental support differs by partner status of the older adult, but the hierarchy in emotional support does not vary with the availability of partner or children. Multi-level regression analyses using data at an 11 month follow-up indicate that 46 bereaved older adults received increased instrumental support from their network, while their receipt of emotional support remained unchanged. Shifts in the hierarchy of instrumental support were observed, but not in the hierarchy of emotional support. Older people who suffered a decrease in physical mobility received more instrumental and emotional support, but the ranking of supporter types changed little. It is concluded that despite changes in intensity of support, the hierarchies of types of supporters have generally remained stable over time.

De Jong Gierveld, J., Van Tilburg, T.G., & Lecchini, L. (1997). Socio-economic resources, household composition, and the social network as determinants of well-being among Dutch and Tuscan older adults. *Genus, Rivista Internazionale di Demografia*, *LIII*, 75-100.  
<http://hdl.handle.net/1871/18944>

De Jong Gierveld, J., Van Tilburg, T.G., & Plomp, R. (1997). Feminisering van de armoede onder ouderen in Nederland [Feminization of poverty among older adults in the Netherlands]. *Mens en Maatschappij*, *72*, 248-262. <http://hdl.handle.net/1871/18943>  
The financial position of older adults in the Netherlands is a heterogeneous one. Gender, living arrangement and age are among the most important determinants of household income levels, as has been illustrated with macro level data. However, the interconnectedness of current characteristics of older males and females with life-course experiences in the field of labor market participation and partner relationships, is hypothesized to be of crucial importance to explain the differences in financial opportunities and resources older adults are confronted with. To investigate the financial position of older men and women, data from the NESTOR 'Living Arrangement and Social Networks' program, based on 4494 face-to-face interviews, have been used.

De Jong Gierveld, J., Plomp, R., & Van Tilburg, T.G. (1997). Intimacy, but at a distance: De relatie tussen ouders en hun volwassen kinderen in Nederland en Italië. In *Afstand en betrokkenheid* (pp. 10-21). Amsterdam: Koninklijke Nederlandse Academie van Wetenschappen.  
<http://hdl.handle.net/1871/19010>

Penninx, B.W.J.H., Van Tilburg, T.G., Deeg, D.J.H., Kriegsman, D.M.W., Boeke, A.J.P., & Van Eijk, J.T.M. (1997). Direct and buffer effects of social support and personal coping resources in individuals with arthritis. *Social Science & Medicine*, *44*, 393-402. <http://dx.doi.org/10.1016/S0277-9536%2896%2900156-6>  
Examined the direct and buffer effects of various aspects of social support and personal coping resources on depressive symptoms in a community-based sample of 1,690 55-85 yr olds, of whom 719 had no chronic disease, 612 had mild arthritis and 359 had severe arthritis. Results showed that persons with arthritis had more depressive symptoms than persons with no chronic diseases. Irrespective of arthritis, the presence of partner, having many close social relationships, feelings of mastery and a high self-esteem were found to have direct, favorable effects on psychological functioning. Mastery, having many diffuse social relationships, and receiving emotional support seem to mitigate the influence of arthritis on depressive symptoms, which is in conformity with the buffer hypothesis. Favorable effects of these variables on depressive symptomatology were only, or more strongly, found in persons with severe arthritis.

Penninx, B.W.J.H., Van Tilburg, T.G., Kriegsman, D.M.W., Deeg, D.J.H., Boeke, A.J.P., & Van Eijk, J.T.M. (1997). Effects of social support and personal coping resources on mortality in older age: The Longitudinal Aging Study Amsterdam. *American Journal of Epidemiology*, *146*, 510-519.  
<http://aje.oxfordjournals.org/cgi/reprint/146/6/510>  
This study focuses on the role of social support and personal coping resources in relation to mortality among older persons in the Netherlands. Data are from a sample of 2,829 noninstitutionalized people aged between 55 and 85 years who took part in the Longitudinal Aging Study Amsterdam in 1992-1995. Social support was operationally defined by structural, functional, and perceived aspects, and personal coping resources included measures of mastery, self-efficacy, and self-esteem. Mortality data were obtained during a follow-up of 29 months, on average. Cox proportional hazards regression models revealed that having fewer feelings of loneliness and greater feelings of mastery are directly associated with a reduced mortality risk when age, sex, chronic diseases, use of alcohol, smoking, self-rated health, and functional limitations are controlled for. In addition, persons who received a moderate level of emotional support (odds ratio (OR) = 0.49, 95% confidence interval (CI) 0.33-0.72) and those who received a high level of support (OR = 0.68, 95% CI 0.47-0.98) had reduced mortality risks when compared with persons who received a low level of emotional support. Receipt of a high level of instrumental support was related to a higher risk of death (OR = 1.74, 95% CI 1.12-2.69). Interaction between disease status and social support or personal coping resources on mortality could not be demonstrated.

Van Tilburg, T.G. (1997). There is more to the network than relationships. *ISSPR Bulletin*, 13, 11-13. <http://hdl.handle.net/1871/18945>

1996

Broese van Groenou, M.I., & Van Tilburg, T.G. (1996). Network analysis. In J.E. Birren (Ed.), *Encyclopedia of gerontology: Age, aging, and the aged* (Vol. 2, pp. 197-210). San Diego: Academic Press. ISBN 0-12-226862-8 <http://hdl.handle.net/1871/18947>

The personal networks of elderly people reflect their social opportunities and personal choices to maintain a specific set of relationships with relatives, neighbors, friends, acquaintances, and so on. Network analysis is the method used to identify and examine the structural and functional features of the network of the older adult. The conceptualization and operationalization of the personal network depend on the subject of research. Five approaches to define personal network membership are presented and discussed. The five approaches differ regarding the part of the personal network that is mapped, and result in networks of different sizes and compositions. Regardless of the type of network delineation, a distinction can be drawn between the star network (data available on relationships with the focal person) and the full network (data available on all the network relationships). Features of the structure and content of both types of networks are presented. Finally, network analysis methods are presented and discussed, including ways to analyze hierarchical databases.

Broese van Groenou, M.I., & Van Tilburg, T.G. (1996). The personal network of Dutch older adults: A source of social contact and instrumental support. In H. Litwin (Ed.), *The social networks of older people: A cross-national analysis* (pp. 163-182). London: Praeger. ISBN 0-275-95327-0 <http://hdl.handle.net/1871/18948>

Mehciz, M., & Van Tilburg, T.G. (1996). De indicatiestelling voor het verzorgingshuis: Evaluatie van de vragenlijst indicatie Alkmaar [Assessment of indications for admission to a nursing home: Evaluation of the questionnaire indication Alkmaar]. *Tijdschrift voor Gerontologie en Geriatrie*, 27, 243-249.

This article aims at testing an assessment schedule which is generally applied in order to determine the necessity and urgency of admission into a home for the aged. The central question concerns the extent to which this schedule contributes to (1) objectivity, implying that applicants with similar 'needs' will have an equal opportunity of being admitted to the requested provision, and (2) efficiency, meaning that a clear distinction in the urgency of admission is being made according to the seriousness of 'needs'. The research therefore concentrates on two topics. First, the homogeneity and statistical reliability of the assessment schedule, i.e. the questionnaire which is used for measuring the need for (institutional) care. Second, the statistical association between the measured need and the urgency of admission into a home for the aged. The research rests upon data on 164 older adults who have requested for admission; this data were obtained by a local agency responsible for need-assessment in relation to institutional care. The findings are as follows: (1) the homogeneity of the instrument can be improved, (2) the reliability is fairly good, (3) the association between 'need' and 'urgency of admission' is not very strong, notwithstanding the fact that (4) persons with lower scores on ADL- and IADL-capacities, with more psycho-social problems and with stronger feelings of anxiety have significantly better opportunities of being admitted to a residential facility. It is concluded that the association between 'need' and 'urgency of admission' might be improved by refining the assessment schedule and standardizing its application.

Roorda, L.D., Roebroek, M.E., Lankhorst, G.J., & Van Tilburg, T.G. (1996). De vragenlijst loopvaardigheid: Hiërarchische schalen om beperkingen in het opstaan en lopen te meten. *Revalidata*, 73, 34-38. <http://hdl.handle.net/1871/18946>

Roorda, L.D., Roebroek, M.E., Lankhorst, G.J., Van Tilburg, T.G., & Bouter, L.M. (1996). Measuring functional limitations in rising and sitting down: Development of a questionnaire. *Archives of Physical Medicine and Rehabilitation*, 77, 663-669. <http://dx.doi.org/10.1016/S0003->

[9993%2896%2990005-2](#)

Objective: Develop and test a self-administered questionnaire that measures perceived and actual functional limitations in rising and sitting down. Setting: Private practices for physical therapy and outpatient clinics of hospitals and rehabilitation centers. Patients: 345 outpatients (43% male, aged 14 to 92 years) with different grades of functional limitations and different types of lower extremity orthopedic or rheumatologic disorders. Methods: The Questionnaire Rising and Sitting Down (QR&S) was developed on the basis of a literature review and careful operationalization of functional limitations. Five dimensions concerning different objects (high chair, low chair, toilet, bed, and car) and one global dimension were postulated to be contained in the instrument. Mokken scale analysis was used to test the postulated dimensions (scalability coefficient H). Furthermore, robustness with respect to patient characteristics was determined, as well as intratest reliability (reliability coefficient Rho), test-retest reliability (intraclass correlation coefficient [ICC]), content validity (coverage of operationalized aspects), and construct validity (testing of seven hypotheses). Results: Mokken scale analysis confirmed the existence of 5 object dimensions (N = .53-.59). However, two global dimensions were found (H = .50-.54). The resulting hierarchical scales, consisting of subsets of the 32 final QR&S items, are robust and measure functional limitations in a reliable (Rho .77-.91; ICC .72-.90) and valid (3 out of 4 aspects covered, 2 hypotheses rejected for 3 out of 7 scales) manner. Conclusion The QR&S is a reliable and valid self-administered questionnaire. It consists of hierarchical scales and measures perceived and actual functional limitations in rising and sitting down.

1995

Beekman, A.T.F., Deeg, D.J.H., Van Tilburg, T.G., Smit, J.H., Hooijer, C., & Van Tilburg, W. (1995). Major and minor depression in later life: A study of prevalence and risk factors. *Journal of Affective Disorders*, 36, 65-75. <http://dx.doi.org/10.1016/0165-0327%2895%2900061-5>  
Presents results from the Longitudinal Aging Study Amsterdam regarding the prevalence of both major (MaD) and minor depression (MiD) and age-related shifts in the patterns of associations with both vulnerability and stress. A random sample of 3,056 adults (aged 55-85 yrs) was obtained from 3 regions in the Netherlands. The prevalence of MaD was 2.02% and that of MiD, 12.9%. 14.9% had clinically relevant levels of depressive symptoms. Except in the youngest age group, women had higher prevalence rates for both MaD and MiD. Rising rates of depression with age were only found for women. Bivariate associations of both MaD and MiD with a broad range of risk factors did not differ dramatically between the sexes or age groups. Results suggest that MaD in the elderly is more often the exacerbation of a chronic mood disturbance, with roots in long-standing vulnerability, while MiD is more often a reaction to the stress encountered in later life.

Klein Ikkink, C.E., & Van Tilburg, T.G. (1995). The continuation of non-reciprocity within relationships of the elderly. In M.G. Everett & K. Rennolls (Eds.), *International conference on social networks, Vol. 3: Organizations and psychology* (pp. 79-96). Greenwich: University Press. ISBN 1874529-736

Klein Ikkink, C.E., Van Tilburg, T.G., & Broese van Groenou, M.I. (1995). Strategieën bij wederkerigheid in onderlinge steun. In B.C.M. Nitsche (Red.), *Ouderen, wetenschap en beleid II* (pp. 79-96). Utrecht: NIG. ISBN 90-70911-27-2 <http://hdl.handle.net/1871/18959>  
Het geven van steun aan anderen kan in het perspectief van ruil gezien worden. Mensen die steun geven, verwachten (later) ook weer steun terug te ontvangen. De relaties waarbinnen steun gegeven worden, komen dan, als die steun wordt terug gegeven, in balans. Deze balans noemen we ook wel wederkerigheid. In het algemeen trachten mensen hun onderlinge relaties in balans te houden. Als men echter verwacht dat men later steun nodig heeft, zou de relatie nu juist uit balans gebracht kunnen worden door meer steun te geven dan men zelf ontvangt. Dit noemen we investeren. Men hoopt dan dat die investering zich later, wanneer men zelf steun nodig heeft, uitbetaalt. Voor ouderen is het belangrijk te investeren omdat er kans is dat zij later, bijvoorbeeld als gevolg van een verslechterende gezondheid, steun nodig hebben. Investeringsrelaties, bijvoorbeeld in de relaties met de kinderen of met goede vrienden, kunnen beter zijn dan in andere relaties, bijvoorbeeld relaties met kennissen. Zo is het minder zeker dat de aan kennissen gegeven steun later teruggegeven wordt dan dat men steun van kinderen of vrienden

terugkrijgt. Het investeren in relaties waarbij een grote kans bestaat dat men ook steun terugkrijgt, noemen we strategisch investeren. Deze theorie wordt bevestigd in een onderzoek onder 413 ouderen, waarin gemiddeld vijf van hun persoonlijke relaties betrokken zijn. Dit zijn relaties met de partner, met kinderen en met andere familieleden, maar ook relaties met burens, vrienden, kennissen en mensen die men van een vereniging kent.

Knipscheer, C.P.M., De Jong Gierveld, J., Van Tilburg, T.G., & Dykstra, P.A. (Eds.) (1995). *Living arrangements and social networks of older adults*. Amsterdam: VU University Press. ISBN 90-5383-404-4

With chapters:

Knipscheer, C.P.M., Dykstra, P.A., De Jong Gierveld, J., & Van Tilburg, T.G. Living arrangements and social networks as interlocking mediating structures. (pp. 1-14). [Full text](#)

Van Tilburg, T.G. Delineation of the social network and differences in network size. (pp. 83-96).

[Full text](#)

Van Tilburg, T.G., Broese van Groenou, M.I., & Thomése, G.C.F. Flow of support. (pp. 131-154).

[Full text](#)

De Jong Gierveld, J., & Van Tilburg, T.G. Social relationships, integration, and loneliness. (pp. 155-172). [Full text](#)

Broese van Groenou, M.I., Van Tilburg, T.G., De Leeuw, E.D., & Liefbroer, A.C. Data collection. (pp. 185-197). [Full text](#)

Van Tilburg, T.G. (1995). Interviewer effects on the determination of personal network size. In M.G. Everett & K. Rennolls (Eds.), *International conference on social networks, Vol. 2: Sociology and large networks* (pp. 69-76). Greenwich: University Press. ISBN 1874529-728

Methods for delineating personal networks in surveys contain complex instructions for the interviewers. We investigate the magnitude of interviewer effects on the network size in a large longitudinal survey among the elderly, and try to explain differences between interviewers by their prior experience with surveys and their level of education. The results show that interviewers with minor experience and with low education generate relatively large networks. A revised version is published as: Van Tilburg, T.G. (1998). Interviewer effects in the measurement of personal network size: A non-experimental study. *Sociological Methods & Research*, 26, 300-328.

Van Tilburg, T.G., & Dykstra, P.A. (1995). Geografische spreiding van het sociale netwerk van ouderen [Geographical dispersion of older adults' personal network members]. *Rooilijn, Tijdschrift voor wetenschap en beleid in de ruimtelijke ordening*, 28, 140-146.

Met de toenemende vergrijzing is er ook een toenemende aandacht voor ouderen.

Representatieve beschrijvende en verklarende gegevens over de samenstelling, kwaliteit en andere kenmerken van de sociale netwerken van ouderen in Nederland waren tot voor kort slechts in beperkte mate voorhanden. Antwoorden op vragen als 'Hoe groot zijn de netwerken van ouderen?', 'Wat is de omvang en de aard van de informele ondersteuning die ouderen krijgen?', en 'Welke factoren veroorzaken verschillen in de omvang van netwerken en de daarbinnen verkregen steun?' zijn van belang voor de overheid bij het voorbereiden van beleid op ondermeer de terreinen van huisvesting en zorg. In het onderzoeksprogramma 'Leefvormen en sociale netwerken van ouderen' worden deze vragen beantwoord. In dit artikel gaan we specifiek in op de geografische spreiding van netwerken.

Van Tilburg, T.G., Dykstra, P.A., Liefbroer, A.C., & Broese van Groenou, M.I. (1995). *Sourcebook of living arrangements and social networks of older adults in the Netherlands: Questionnaire and data documentation of the NESTOR-program, main study 1992 and network study 1992-1995*. Amsterdam/Den Haag: Departments of Sociology and Social Gerontology & Social Research Methodology, Vrije Universiteit; Netherlands Interdisciplinary Demographic Institute.

1994

Dykstra, P.A., & Van Tilburg, T.G. (1994). Steun van ouderen [Older adult support]. In N. van Nimwegen & G. Beets (Eds.), *Bevolkingsvraagstukken in Nederland anno 1994* (pp. 189-208). Den Haag: Nidi.

Van Tilburg, T.G. (1994). Social network size and support. In D.J.H. Deeg & M. Westendorp-de Serière (Eds.), *Autonomy and well-being in the aging population I: Report from the Longitudinal Aging Study Amsterdam* (pp. 79-88). Amsterdam: VU University Press. ISBN 90-5383-336-6  
Older adults' personal network size and the intensity of the instrumental and emotional support received and given within their personal relationships are described, based on data from 2,891 respondents (aged 55-85) of the LASA study. Differences in network size were observed according to differences in sex, age, the availability of a partner, the strength of church affiliation, education, income and financial status. For instrumental support received and emotional support given and received most of the variance is explained by network size only. For instrumental support given, the addition of the variables sex, availability of a partner and age contributed clearly to the explained variance: males, respondents with a partner and younger respondents gave more.

1993

Deeg, D.J.H., Jonker, C., Launer, L.J., Schellevis, F.G., Smits, C.H.M., Van Tilburg, T.G., Knipscheer, C.P.M., & Van Tilburg, W. (1993). Change in autonomy and well-being: Background and preliminary proposal for the Longitudinal Aging Study Amsterdam. In D.J.H. Deeg, C.P.M. Knipscheer, & W. van Tilburg (Eds.), *Autonomy and well-being in the aging population: Concepts and design of the Longitudinal Aging Study Amsterdam* (pp. 19-87). Bunnik: NIG. ISBN 90-70911-24-8

Thomése, G.C.F., & Van Tilburg, T.G. (1993). Normatieve verwachtingen van oudere echtparen in de uitwisseling van steun: Een vergelijking van partners en paren. In M.M. Blom, Y. Kuin, & H.F.J. Hendriks (Eds.), *Ouder worden '93* (pp. 485-489). Utrecht: NIZW. ISBN 90-5050-199-0

Van Tilburg, T.G., & Broese van Groenou, M.I. (1993). Instrumentele en emotionele reciprociteit: Het bewaren van evenwicht binnen het ondersteunend netwerk. In M.M. Blom, Y. Kuin, & H.F.J. Hendriks (Eds.), *Ouder worden '93* (pp. 148-155). Utrecht: NIZW. ISBN 90-5050-199-0

Van Tilburg, T.G., & Knipscheer, C.P.M. (1993). The Nestor research program 'Living arrangements and social networks of older adults'. In D.J.H. Deeg, C.P.M. Knipscheer, & W. van Tilburg (Eds.), *Autonomy and well-being in the aging population: Concepts and design of the Longitudinal Aging Study Amsterdam* (pp. 253-264). Bunnik: NIG. ISBN 90-70911-24-8

1992

De Jong Gierveld, J., & Van Tilburg, T.G. (1992). Triangulatie in operationaliseringsmethoden. In G.J.N. Bruinsma & M.A. Zwanenburg (Eds.), *Methodologie voor bestuurskundigen: Stromingen en methoden* (pp. 273-298). Muiderberg: Coutinho.

Van Tilburg, T.G. (1992). De operationalisering van wederkerigheid in het ondersteunend relatienetwerk: Vergelijking van instrumenten [The operationalization of reciprocity within the supportive network: Comparison of instruments]. In W. Jansen & G.L.H. van den Wittenboer (Eds.), *Sociale netwerken en hun invloed* (pp. 72-89). Meppel: Boom. ISBN 9053520279  
Bepalingen van subjectieve en intersubjectieve wederkerigheid komen in grote mate overeen: beide laten zien dat de netwerken van ouderen gemiddeld ongeveer wederkerig zijn. Het verschil in gemiddelde is te verwaarlozen en de onderlinge samenhangen zijn redelijk sterk. Er zijn echter ook verschillen: de gegevens over de uitwisselingen verkregen van de ouderen komen niet geheel overeen met die van de netwerkleden. Vanwege het ontbreken van een criterium variabele kunnen geen conclusies getrokken worden over wat de beste bepaling van wederkerigheid is. Er zijn

echter wel aanwijzingen voor een systematisch methode-effect. Het kan zijn dat de ouderen de gegeven emotionele steun relatief overschatten en de instrumentele steun onderschatten, dat wil zeggen een tekort in instrumentele wederkerigheid (te weinig steun geven) compenseren met een overschot aan emotionele wederkerigheid (meer steun geven).

Van Tilburg, T.G. (1992). Question sequence effects in the measurement of reciprocity. *Quality & Quantity*, 26, 395-408. <http://dx.doi.org/10.1007/BF00170451>  
Sequence effects are discussed as a methodological problem in the measurement of reciprocity of social support. It is hypothesized that the likelihood that a relationship is reciprocal will be greater if the pairs of questions on receiving & giving support immediately succeed each other in the interview than if an entire set of questions on receiving support precedes the entire set of reversed questions. Analysis of responses to a survey conducted with an experimental design among 179 elderly in the Netherlands does not refute this hypothesis; a method effect of approximately 10% was observed in the expected direction. The method effect was also evident in results regarding the exchange orientation: under the pairwise condition, no significant associations were observed between exchange orientation & reciprocity, whereas significant associations in the expected direction were observed under the blockwise condition.

Van Tilburg, T.G. (1992). Support networks before and after retirement. *Journal of Social and Personal Relationships*, 9, 433-445. <http://dx.doi.org/10.1177/0265407592093006>  
Changes in one's personal network can be expected to follow after retirement. A certain loss of relationships, for example with colleagues, is inevitable. How do people who are either about to retire or have recently done so react to this life event? Do they form new relationships or deepen their existing ones? Which type of relationships are most likely to be terminated? Is over benefiting or under benefiting in support a significant aspect in the termination of relationships? This article addresses these questions on how retirement affects support networks. The data were obtained from 50 men, interviewed before and after retirement. At T2 approximately a third of the personal relationships were no longer part of the network. The average size of the networks had not changed. A larger proportion of network members was unemployed and most of the relationships with colleagues were terminated. The relationships were evaluated as being more pleasant and the frequency of the contact was higher. On average, the relationships at T2 were with older persons and tended to be more frequently with an acquaintance than those at T1. More exchanges were carried out at T2 than at T1. They were mainly exchanges in which support was given by the respondents to network members, so that there was a small reduction in the overall reciprocity. The results confirm the hypothesis concerning the significance of reciprocity for the stability of exchange relationships.

1991

De Jong Gierveld, J., & Van Tilburg, T.G. (1991). Kwaliteitsbepaling van meetinstrumenten via triangulatie. In P.G. Swanborn, J. de Jong Gierveld, T.G. van Tilburg, A.E. Bronner & G.W. Meijnen (Eds.), *Aspecten van onderzoek: Theorie, variabelen en praktijk* (pp. 29-64). Rijksuniversiteit Utrecht, Vakgroepen Planning, Organisatie en Beleid & Empirisch Theoretische Sociologie.

Van Tilburg, T.G., Van Sonderen, F.L.P., & Ormel, J. (1991). The measurement of reciprocity in ego-centered networks of personal relationships: A comparison of different indices. *Social Psychology Quarterly*, 54, 54-66. <http://dx.doi.org/10.2307/2786788>  
Deals with the reciprocity of social support in personal relationships and with its connection to well-being, particularly loneliness. Four methods for constructing indices of the reciprocity of social support were developed based on data on ego-centered networks of personal relationships. Self-administered questionnaires were given to 82 pregnant women with paid jobs, 105 recent movers, and 52 males nearing retirement. The 4 indices showed that the respondents' relationship networks were strongly reciprocal. The results did not make it unequivocally clear whether overbenefiting (vs underbenefiting) and loneliness were linked via a U-shaped association or via a linear or inverse U-shaped association.

Van Tilburg, T.G., & De Leeuw, E.D. (1991). Stability of scale quality under various data collection procedures: A mode comparison on the 'de Jong Gierveld Loneliness Scale'. *International Journal of Public Opinion Research*, 3, 69-85. <http://dx.doi.org/10.1093/ijpor/3.1.69>

The robustness of J. de Jong-Gierveld's loneliness scale was examined through analysis of data from six Dutch surveys using different modes of data collection (three using self-administered paper questionnaires, two using face-to-face interviews, and one using telephone interviews). Among the findings are: collection mode did not affect robustness; questionnaires did not lead to higher item nonresponse; questionnaires and telephone interviews resulted in better interitem homogeneity and person scalability than face-to-face interviews; and absence of an interviewer did not result in greater self-disclosure and higher scale means. The robustness of the scale is discussed as questionable, however, in regard to interitem homogeneity and person scalability.

1990

Van Tilburg, T.G. (1990). Eenzaamheid onder met partner samenwonende mannen en vrouwen in verschillende gezinsfasen [Loneliness among men and women living with a partner in different stages of the life cycle]. *Gezin, Tijdschrift voor Primaire Leefvormen*, 2, 17-31.

It has been suggested that differences in loneliness among those living with a partner are associated with gender and stages of the life cycle. The present study examines whether or not such an association exists, and if this is found to be the case, whether it can be interpreted in terms of differences in the supportive network and differences in the importance attached to relationships. Data from 165 respondents show that men are, on average, more lonely than women, and that parents with older children living at home are, on average, most lonely. The networks of the males are generally less supportive than those of females, and men tend to attach greater importance to the partner relationship than do women. The findings that parents with older children are generally most lonely cannot be explained in terms of the importance attached to relationships, and only partially in terms of networks characteristics. These respondents receive relatively much support from the children who are members of their household, and relatively little from relationships outside their household. It is put forward that family nuclearization may be an underlying process.

Van Tilburg, T.G. (1990). The size of the supportive network in association with the degree of loneliness. In C.P.M. Knipscheer & T.C. Antonucci (Eds.), *Social network research: Substantive issues and methodological questions* (pp. 137-150). Lisse: Swets & Zeitlinger. ISBN-13 978-9026510687

(from the chapter) deals with the implications of distinguishing between the mechanisms (operating within social relationships) of dominance (a single dominant confidant), compensations (others who compensate for needs not met by the confidant), and additivity (different persons providing different elements that add to the total necessary support) for designing survey research on the impact of the supportive network of relationships on individual well-being /// we prefer a procedure that first identifies the appropriate relationships in the network and then assesses whether or not the relationships are characterized by each of a number of aspects of support / the quantity of information respondents must provide increases in proportion to the number of relationships under consideration and to the number of aspects of support that are distinguished / the central question addressed is whether such an intensive examination of the supportive network of relationships produces enough additional information to justify the extra effort required of both the respondent and the researcher /// the data are from a survey that focused on the association between the supportive network and loneliness / a first research question to be dealt with is: do people in fact often have several supportive relationships at their disposal / a second research problem: does an intensive examination of the network of relationships, with the help of a procedure based on the idea of additivity in relationships, produce a stronger association with loneliness than an examination that starts from the relationship with the confidant (assuming dominance, respectively compensation).

Van Tilburg, T.G. (1990). Support in close relationships: Is it better to assess the content or the type of relationships? In C.P.M. Knipscheer & T.C. Antonucci (Eds.), *Social network research: Substantive issues and methodological questions* (pp. 151-160). Lisse: Swets & Zeitlinger. ISBN-

13 978-9026510687

(from the chapter) compare the type and content (i.e., actual emotional and instrumental exchanges) of primary relationships as indicators of support in relationships / if the relationship type is a valid indicator of support, then differences in support should vary systematically with differences in relationship type / if the relationship type and the relationship content are valid indicators, both measures should be strongly associated with a straightforward measure of the intensity of support / examine these assumptions using results from an empirical survey /// the leading question will be: which operationalization of support is adequate -- the one based on the type of a relationship, or the one starting from the content of a relationship / the hypothesis to be rejected is: the assessment of relationship type is sufficient for the assessment of the intensity of the support in the relationship.

1989

Van Tilburg, T.G. (1989). Een gevarieerd en uitgebreid relatiernetwerk: Vroege determinanten van succesvolle 'coping' met scheiding [A variegated and extended network of personal relationships: Early determinants of successful coping with divorce]. *Mens & Maatschappij*, 64, 58-70. Interview data collected in 1985/86 from divorced men and women (N = 127) in Purmerend and Haarlemmermeer, the Netherlands, are used to investigate the effects of the loss of the partner relationship and the loss of support from other relationships on loneliness. It is found that such loss increases loneliness, but that if nonkin relationships are among the strongest remaining supportive relationships, the chance of experiencing loneliness decreases. These results indicate that if marriage is disrupted when an individual has few supportive relationships outside the nuclear family, the chance of severe loneliness is high. It is therefore desirable from the point of view of prevention to stimulate the development & maintenance of a varied relationship network.

De Jong Gierveld, J., & Van Tilburg, T.G. (1989). The partner as source of social support in problem and non-problem situations. In M. Hojat & R. Crandell (Eds.), *Loneliness: Theory, research, and applications* (pp. 191-200). London: Sage. Reprinted from: De Jong Gierveld, J., & Van Tilburg, T.G. (1987). The partner as source of social support in problem and non-problem situations. *Journal of Social Behavior and Personality*, 2, 191-200. ISBN 9780803936195 9780803936201

A Rasch-type loneliness scale was administered in two studies. The first involved 708 unemployed, occupationally disabled, and employed men and women. The second involved 412 married, unmarried, divorced, and widowed women and men. The effects of being with or without a partner, the S's evaluation of the supportive function of the partner, and different types of problem situations were examined. Results reveal a decrease in loneliness scores as a function of the positive evaluation of partner support. A buffer effect for partner support was not found. However, the effect of the partner's support varied with the type of problems. It is concluded that in the event of externally caused problems, the support provided by the partner is of some use but falls short in dealing with the problem. The support from other individuals in the network seems indispensable.

1988

Van Tilburg, T.G. (1988). *Verkregen en gewenste ondersteuning in het licht van eenzaamheidservaringen* [Obtained and desired social support in association with loneliness]. Dissertatie, Vrije Universiteit Amsterdam. [Full text http://hdl.handle.net/1871/17014](http://hdl.handle.net/1871/17014)

1987

De Jong Gierveld, J., & Van Tilburg, T.G. (1987). Het meten van persoonlijke ervaringen en gevoelens in vragenlijst-onderzoek: Een studie naar het functioneren van de eenzaamheidsschaal in verschillende onderzoeken [Measuring personal experiences and emotions with questionnaires: A study of the properties of the Loneliness-scale in different research projects]. In J. de Jong Gierveld & J. van der Zouwen (Eds.), *De vragenlijst in sociaal onderzoek: Een confrontatie van onderzoekspraktijk en -methodiek* (pp. 67-83). Deventer: Van Loghum Slaterus.

Van Tilburg, T.G. (1987). Sociaal-emotionele ondersteuning: Een vergelijking van twee meetinstrumenten [Social support: A comparison of two methods of measurement]. *Mens & Maatschappij*, 62, 5-16.

Summation of support received from individual relationships produces a figure reflecting the total support received from the respondent's personal network. Support received from respondent's personal network can also be assessed globally by asking questions about the respondent's network as one whole. A survey with 419 adults used both measurements. A comparison of the two instruments demonstrated that global assessment corresponds to a greater degree with a summation derived from eight relationships than with one derived from seven or fewer relationships. However, the correlation was too small ( $r = .461$ ) to allow the conclusion that both instruments measure the same. The results of global assessment deviated in the case of some respondents from what might be expected on the basis of data derived from all the respondents. These deviations were bound up with evaluative factors. This indicates that global assessment of support can lead to confounding of social support with loneliness.

De Jong Gierveld, J., & Van Tilburg, T.G. (1987). The partner as source of social support in problem and non-problem situations. *Journal of Social Behavior and Personality*, 2, 191-200. A Rasch-type loneliness scale was administered in two studies. The first involved 708 unemployed, occupationally disabled, and employed men and women. The second involved 412 married, unmarried, divorced, and widowed women and men. The effects of being with or without a partner, the S's evaluation of the supportive function of the partner, and different types of problem situations were examined. Results reveal a decrease in loneliness scores as a function of the positive evaluation of partner support. A buffer effect for partner support was not found. However, the effect of the partner's support varied with the type of problems. It is concluded that in the event of externally caused problems, the support provided by the partner is of some use but falls short in dealing with the problem. The support from other individuals in the network seems indispensable.

1985

Van Tilburg, T.G. (1985). *De betekenis van ondersteuning in primaire sociale relaties: Uitwerking ten behoeve van een onderzoek naar de ervaren ondersteuning, de gewenste verbondenheid, en eenzaamheid* [The significance of social support in primary relationships in the context of experienced support, need for social affiliation, and loneliness]. Amsterdam: VU-uitgeverij.

Van Tilburg, T.G. (1985). Supportive relationships and loneliness: Suggestions for the improvement of support networks as guidelines for research and policy. In J.A. Yoder, J.M.L. Jonker, & R.A.B. Leaper (Eds.), *Support networks in a caring community* (pp. 215-225). Dordrecht: Nijhoff. ISBN 90-247-3200-X

1984

Bouman, A., Goede, H.P., Van der Berg, H., Leene, G.J.F., Schuyt, Th.N.M., Van Tilburg, T.G., & Verburg, A. (1984). *Samenhang in de maatschappelijke dienstverlening: Een onderzoek naar de ontwikkeling van hulpverleningsnetwerken in tien Nederlandse gemeenten*. Amsterdam: VU-uitgeverij.

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