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Adult children stepping in? Long-term care reforms and trends in children’s provision of household support to impaired parents in the Netherlands

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ABSTRACT

Recent long-term care (LTC) reforms in the Netherlands are illustrative of those taking place in countries with a universalistic LTC model based on extensive provision of state supported services. They entail a shift from de-familialization, in which widely available state supported LTC services relieve family members from the obligations to care for relatives in need, to supported familialism, in which family involvement in caregiving is fostered through support and recognition for families in keeping up their caring responsibilities. Using data from four waves of the Netherlands Kinship Panel Study (n=2,197), we show that between 2002 and 2014 the predicted probability that adult children provide occasional household support to impaired parents rose substantially. Daughters more often provided household support to parents than did sons, but no increase in the gender gap over time was found. We could not attribute the increase in children’s provision of household support to drops in the use of state supported household services. The finding that more and more adult children are stepping in to help their ageing parents fits a more general trend in the Netherlands of increasing interactions in intergenerational families.

KEY WORDS - long-term care, intergenerational support, substitution, intergenerational solidarity, Netherlands, universalism.

Running heads: Long-term care reforms and trends in children’s provision of household support
Introduction

Faced with ageing populations, many European countries are grappling with the issue of how to meet the care needs of the older population at a cost that is acceptable to society. In many countries where the state traditionally carried the main responsibility for the provision of care to older persons in need, such as Norway (Daatland 2015), Sweden (Ulmanen 2013), Finland (Kröger and Leinonen 2012) and the Netherlands (Da Roit 2012), an increasingly strong appeal to the family to take on support tasks has developed in the last decades. The Dutch case is illustrative for this development.

Half a century ago, the Dutch introduced a comprehensive universal social insurance scheme covering long-term care (LTC) for all persons in need, and in the decades that followed they expanded its scope (Companje 2015). Since the mid-1980s, financial constraints led to reforms. Initially, cost-containment was mainly pursued through supply regulation and budgetary restrictions (Schut and Van den Berg 2010). As we will discuss in further detail later, reforms enacted in the 21st century mainly aimed at encouraging potential informal caregivers – in particular family members – to provide support to those in need.

In this article, we sketch the LTC reforms that have taken place in Europe, and specifically in the Netherlands, over the last decades. Next, we assess how the provision of household support by adult children of impaired older persons has changed in the wake of Dutch LTC reforms. We estimate multinomial logistic regression models on longitudinal Netherlands Kinship Panel Study data, and focus on household support because the most drastic changes brought about by recent LTC reforms in the Netherlands and other universalistic countries concern the provision of lighter forms of state supported LTC services. The state still takes on a large responsibility for the provision of care services for those with severe needs, e.g. those in need of long-term personal care or nursing care, but for lighter forms of support, such as
household help, informal caregivers – and in particular family members – are increasingly being called upon.

**Long-term care reforms in Europe**

*Residual model and universalistic model*

Compared to risks like illness or unemployment, the need for LTC has only quite recently been recognized by European countries as a specific social risk requiring welfare policy intervention (Daatland 2015; Österle and Rothgang 2010; Ranci and Pavolini 2015). People with care needs have traditionally relied on family networks, and, to some extent, on charitable sources or local social assistance. Particularly in countries in Southern Europe, but also in for instance Germany and France, the reliance on informal and charity networks remained largely unchanged because of persistent institutional and cultural traditions (Daatland 2015; Österle and Rothgang 2010; Pavolini and Ranci 2008; Swartz 2013). Until recently, these countries had limited provisions of state supported services for those in need. Some cash transfers were available to meet part of the supplementary costs associated with dependency. Persons in need of care had to organize ways of having their care needs met themselves, typically by relying on their families and social networks (Pavolini and Ranci 2008). Following Ranci and Pavolini (2015), we use the term *residual LTC model* for this way of organizing LTC. Other labels used for this approach are *informal care-led model* (Pavolini and Ranci 2008) and *family care model* (Anttonen and Sipilä 1996).

A radically different approach to organizing LTC was taken in a set of countries in North-Western Europe. In some cases as early as in the 1940s, Norway, Sweden, Denmark and Finland started providing universal tax-funded LTC-services (Colombo 2012; Österle and Rothgang 2010; Swartz 2013). In the Netherlands the Exceptional Medical Expenses Act (Dutch: *Algemene Wet Bijzondere Ziektekosten*; AWBZ) came into effect in 1968. The
AWBZ was a universal social insurance scheme. When the AWBZ was introduced, it entitled every Dutch citizen to nursing care, personal care and medical help in recognized hospitals and institutions. In 1970, extramural care, i.e. care not provided in institutions, was added to the AWBZ and in the following decades the act’s scope continued to expand (Companje 2015; Schut and Van den Berg 2010). The extensive provision of services lightened the family’s caring responsibilities in these countries (cf. Lister 1994). Ranci and Pavolini (2015) use the label *universalistic LTC model* for this approach to LTC. Other terms used include *services-led model* (Pavolini and Ranci 2008) and the *Scandinavian model of public services* (Anttonen and Sipilä 1996).

**Convergence**

Since the 1990s the differences in the approach to LTC between the countries that adopted a residual model and those that adopted a universalistic model have become less clear-cut than before (Daatland 2015; Pavolini and Ranci 2008; Österle and Rothgang 2010; Ranci and Pavolini 2015; Rostgaard 2002; Swartz 2013). The main driver for convergence was demographic change. As a result of low fertility and longer life expectancy, the number of older people increased in absolute terms and as a proportion of the total population. Concomitantly, the need for care grew, despite the healthier status of more recent cohorts of older adults (OECD 2011). The residual LTC model as well as the universalistic LTC model encountered problems in facing increasing care needs.

In countries with a residual LTC model, families were facing ever-greater difficulties meeting the rising demand for care (Pavolini and Ranci 2008; Ranci and Pavolini 2015). In addition to population ageing, the rising female labor participation contributed to making a purely residual LTC model unfeasible (Daatland 2015; Costa-Font, Gori, and Santana 2012). Women – who had traditionally taken on the bulk of the care tasks – more often had paid work obligations, making caregiving less self-evident. Many countries started to
acknowledge, rather than take for granted, family caregiving. This recognition, which “care feminists” had been pleading for since the 1980s (O’Connor 1996; Waerness 1987), came, for instance, in the form of cash-for-care benefits and the introduction of measures to support caring families (Pavolini and Ranci 2008). By expanding the coverage of LTC services, countries with LTC systems that could previously be characterized as residual, shifted towards a model in which the responsibility to provide care for those in need was shared between state and family (Ranci and Pavolini 2015; Rostgaard 2002; Rostgaard et al. 2011; Swartz 2013).

Similar to countries with traditionally residual LTC models, countries that had adopted universalistic LTC models also felt the urge to reform. Concerns about the financial sustainability of their LTC systems against the backdrop of ageing populations were the driving force, rather than concerns about the ability to meet the rising demand of care (Ranci and Pavolini 2015). In many countries service levels were frozen, care services were increasingly targeted to those with the most severe needs and reimbursements for care providers were restricted in order to contain costs (Larsson 2006; Österle and Rothgang 2010; Karlsson, Iversen and Øien 2012; Kröger and Leinonen 2012; Pavolini and Ranci 2008; Ranci and Pavolini 2015; Trydegård and Thorslund 2010; Swartz 2013). In addition, a stronger emphasis was placed on home-based care services rather than on care provided in institutions (Anxo and Fagan 2005; Karlsson, Iversen and Øien 2012; Österle and Rothgang 2010; Pavolini and Ranci 2008; Rostgaard 2002; Rostgaard et al. 2011; Swartz 2013). Co-payments from persons with less severe care needs were increased (Pavolini and Ranci 2008; Rostgaard et al. 2011; Swartz 2013). Local governments – which are often responsible for the organization of home care services – scaled down the provision of lighter forms of care, such as household help, or removed these services from the scope of home care altogether (Kröger and Leinonen 2012; Rostgaard et al. 2011; Trydegård and Thorslund 2010). The changes
described here led to a de facto reduction of universalism (cf. Da Roit 2012; Szebehely and Trydegård 2012; Trydegård and Thorslund 2010).

**The case of the Netherlands**

*Situation around the turn of the century*

The AWBZ was still in effect in the Netherlands in the beginning of the twenty-first century. Since its introduction in 1968, the AWBZ had entailed universal entitlement to LTC in nursing homes (Schut and Van den Berg 2010), which is reflected in the relatively high share of the older population living in residential care settings in the Netherlands (Anxo and Fagan 2005; Saraceno 2010). Even though de-institutionalization had been promoted from the early 1980s onwards (Da Roit 2012), the availability of beds in LTC institutions was still high in the year 2000, with 78 beds available per 1,000 persons aged 65 and older (source: OECD Health Indicators). Compared to other OECD countries, this number was second only to Sweden (99 beds / 1,000 persons aged 65+). The availability of beds in residential care settings was lower in other universalistic countries, such as Denmark (58 beds / 1,000 persons aged 65+), Norway (63 beds / 1,000 persons aged 65+ in 2002) and Finland (45 beds / 1,000 persons aged 65+).

Since 1970, the AWBZ had also guaranteed universal entitlement to state supported home care services (Companje 2015). The wide availability of state supported home care services for persons in need around the turn of the century is illustrated by OECD statistics on receipt of LTC at home. In 2004, the first year in the twenty-first century for which information on home care use in the Netherlands was available, 15.4% of persons aged 65 and older received LTC at home (source: OECD Health Indicators). Compared to the Netherlands, LTC receipt at home among people aged 65 and older was somewhat lower in other universalistic countries, such as Denmark (12.8%), Norway (11.5%), Sweden (10.1%) and Finland (7.5%).
Twenty-first century reforms

Since the turn of the century, several LTC reforms happened in the Netherlands which, taken together, implied a move away from the universalistic LTC model adopted by the country since the introduction of the AWBZ in 1968 and the subsequent expansion of its scope. The de-institutionalization of LTC, which had already started in the early 1980s, continued in the first decade of the twenty-first century. Whenever possible, care preferably had to be provided at home, rather than in residential care settings (Comanije 2015; Da Roit 2012). This shift fitted changing ideas about autonomy and independence, but was also a cost-containment strategy, because care provided at home was less expensive than institutional care (Ibid.). The de-institutionalization, which the Netherlands shared with other universalistic countries such as Norway (Daatland 2015), Sweden (Trydegård and Thorslund 2010; Ulmanen and Szebehely 2015) and Denmark (Schulz 2010), is reflected in OECD statistics on the availability of beds in residential care settings. In 2012, there were 66 beds in LTC institutions per 1,000 persons aged 65 and older, down from 78 in 2000 and 101 in 1990 (source: OECD Health Indicators). Consequently, admittance rates for care in LTC institutions dropped, particularly among older persons with lighter care needs (Alders, Comijs, and Deeg 2017; De Meijer et al. 2015).

Like in Norway (Daatland 2015), Sweden (Larsson 2006; Trydegård and Thorslund 2010) and Finland (Kröger and Leinonen 2012), access to state supported home care services became increasingly restricted in the Netherlands. Needs assessors increasingly considered the availability of informal care when determining eligibility for AWBZ services (Grootegoed, Duyvendak and Van Barneveld 2015; Jörg et al. 2002; Morée, Van der Zee and Struijs 2007). Since 2003, certain forms of care were labelled as usual care (Dutch: gebruikelijke zorg). The usual care concept was launched in 2003 and subsequently modified and formalized in a protocol, with the explicit intention to limit the formal support prescribed
and thereby to contain costs (Morée, Van der Zee, and Struijs 2007). Usual care was defined as “the normal, daily care that nuclear family members or other people who share a household can be expected to provide to one another” (CIZ 2012, 9, authors’ translation). The usual care protocol was crucial in determining entitlement to specific benefits under the AWBZ. The protocol applied to AWBZ-provision of household support (e.g., cleaning the home; until 2007), social participation support (e.g., help with mobility issues that would hamper family visits) and, insofar assessment officers did not expect dependency to last for more than three months, personal care (e.g., help with washing and dressing). When older persons in need of care shared a household with a partner or spouse or, in some cases, a child they were typically not eligible for state supported services for these forms of care. Moreover, co-payments for LTC services – which had been relatively low until that time – were increased substantially in 2004, particularly for home-based services (Da Roit 2012; Schut and Van den Berg 2010). Consequently, these services became less attractive, particularly for persons with higher incomes (cf. Plaisier, Verbeek-Oudijk and De Klerk 2017).

The personal budget (Dutch: Persoonsgebonden Budget, PGB), introduced in 1995, was expanded in 2003. For most types of LTC, users could now choose a cash benefit instead of care in kind. Apart from the obligation to demonstrate that the money was spent on care delivered by a professional or informal caregiver, recipients were largely free as to how they might spend the PGB (Mot 2010). The PGB scheme was introduced to increase independence, autonomy and choice for persons with care needs. It was, however, also designed as a cost-containment measure, because PGB benefits were typically 25 percent lower than expenses for care in kind (Da Roit 2012). By 2001, all who had been approved for homecare for at least 3 months were eligible for a PGB (Da Roit 2013). The impact of the PGB scheme on the Dutch LTC system was limited, however (Da Roit and Le Bihan 2010). The PGB was more popular among younger persons with care needs than among older
persons (Mot 2010). As a cost-containment measure, the PGB was not very effective. Its setup created a demand: persons who would not have applied for home care services applied for a PGB to recompense previously unpaid informal caregivers (Da Roit 2013; Schut and Van den Berg 2010). As such, the PGB scheme could be seen as a form of recognition of the value of informal care (cf. Pavolini and Ranci 2008). Another, smaller, measure illustrative of the increased recognition of informal caregiving was the so-called “informal care compliment” (Dutch: *Mantelzorgcompliment*) introduced in 2007. It was a lump-sum payment of 250 euros per year for persons providing informal care to people officially assessed as being in need of care.

With the introduction of the Social Support Act (Dutch: *Wet maatschappelijke ondersteuning*, Wmo) in 2007, municipalities’ role in supporting older persons with care needs has increased. Municipalities now have the obligation to support informal caregivers through the provision of information, advice and guidance, emotional support, education, practical help, financial support and material support (De Klerk, Gilsing, and Timmermans 2010). Evaluators from the Netherlands Institute for Social Research noted an increase among municipalities in the attention for the support of informal caregivers in the years after the introduction of the Wmo (Kromhout et al. 2014).

The introduction of the Wmo also meant that municipalities became responsible for the provision of household services, e.g. cleaning the home. Given that municipalities receive a non-earmarked budget for household services (Mot 2010), they have an incentive to limit spending. Within boundaries prescribed by law, municipalities have increased their efforts to reduce expenses related to the Wmo. A common strategy is to better verify which informal sources of support are potentially available (Kromhout et al. 2014). Rising numbers of municipalities, for instance, organize so-called “kitchen table conversations” in which a consultant, in line with the ideology behind the Wmo, makes an inventory of the extent to
which a Wmo applicant’s problems can be resolved within his/her family and social network (Dijkhoff 2014). Unlike the universal AWBZ scheme, the Wmo is based on the principle of subsidiarity: “ideally, citizens should take responsibility themselves in matters of social assistance [...]. When this is not sufficient, they can apply to the local council, which has a great degree of freedom in making its own policy and responding to local circumstances” (Mot 2010: 17).

The introduction of the Wmo implied a split between, on the one hand, care and support services that remained in the AWBZ and to which people were legally entitled, and, on the other hand, services that no longer fell under a strong legal entitlement. The transfer of household services from the AWBZ to the Wmo is arguably the most substantial element of a Dutch reform strategy that Da Roit (2013) calls “hollowing”: moving elements of social protection from the scope of the universal AWBZ scheme to schemes that respond to different logics and have other entitlement structures. In 2015, this trend culminated in the replacement of the AWBZ by the Long-Term Care Act (Dutch: Wet Langdurige Zorg, Wlz).

The Wlz is a universal social insurance scheme, like the AWBZ, but its scope is much more limited, only covering care to people who need support 24 hours per day. Lighter forms of nursing care and personal care services have been transferred to the Health Insurance Act (Dutch: Zorgverzekeringswet, Zvw) and the Wmo. As a consequence, municipalities are now responsible for a broader range of services, and they are encouraged to manage and provide them according to the principle of subsidiarity that underlies the Wmo.

<Ranci and Pavolini (2015) have argued that in many European countries the relationship between the state and the family has been recast. This observation clearly applies to the Netherlands. The scope of services to which the Dutch are entitled has been reduced.>
Informal caregivers – mainly family members – have been increasingly encouraged to support those in need. On the one hand, services have been developed and expanded to support caregivers in need and recognition for the work of informal caregivers has grown, for instance through the expansion of the PGB scheme and the introduction of the informal care compliment. On the other hand, access to lighter forms of services, such as household help, has been restricted through increased co-payments and stricter needs assessment that takes into account the presence of potential informal support providers. This is illustrated in Figure 1, which shows that the use of state supported household services as a share of the population aged 65 and older decreased sharply between 2004 and 2014.

**Theoretical background and hypotheses**

Saraceno (2010) has developed a classification for country differences in the allocation of caring responsibilities between families and the state. She identified three patterns: familialism-by-default, supported familialism and de-familialization. The first pattern refers to a situation where family members have few alternatives but to provide care because state supported LTC services are not available. In the supported familialism pattern, family involvement in caregiving is fostered through support (leaves and financial transfers) for families in keeping up their caring responsibilities. De-familialization refers to a situation where family members are freed from the obligation to care for relatives in need, because social rights, for instance entitlements to care services, are individualized.

As in other universalistic countries (Kröger and Leinonen 2012), levels of de-familialization have been reduced in the Netherlands, for instance through decreases in the availability of residential care beds and through stricter eligibility criteria for LTC services. Levels of supported familialism have, in turn, been increased, for instance through the introduction of the obligation for municipalities to support informal caregivers, and the increased recognition of informal caregiving through the expansion of the PGB scheme and the introduction of the
informal care compliment. Given this shift from de-familialization to supported familialism, we expect that, in the Netherlands in the early 21st century, adult children increasingly provided household support to impaired parents (Hypothesis 1).

The implications of the shift from de-familialization to supported familialism in the Netherlands may very well differ between daughters and sons of parents in need of care. Daughters are known to provide more support to parents than sons (Knijn and Liefbroer 2005; Van den Broek and Dykstra 2016), and Saraceno (2010) argues that the recourse to the family when levels of de-familization are low amplifies such gender differences. Consistent with this reasoning, gender differences in care for older persons appear to be larger in countries with lower care services coverage (Haberkern, Schmid and Szydlik 2015; Schmid, Brandt and Haberkern 2012). It is therefore not surprising that scholars have expressed concerns about the potentially gendered consequences of Dutch LTC reforms (Schenk et al. 2014; Van den Broek 2013; Van Hooren and Becker 2012; cf. Grootegoed, Duyvendak and Van Barneveld 2015). Following the previous considerations, we hypothesize that daughters’ involvement in the provision of household support showed a stronger increase than did sons’ (Hypothesis 2).

Particularly with regard to lighter forms of care services levels of defamilialization have declined in the Netherlands. As illustrated in Figure 1, access to state supported household services became increasingly restricted in the twenty-first century. The substitution model by Greene (1983) posited that persons in need less often receive informal care when they receive formal home care. With this model, Greene aimed to shed light on the potential implications of social welfare expansion for care provided informally. Johansson, Sundström and Hassing (2003) coined the term “reverse substitution” for the opposite pattern. They found that family support to older persons in need increased in Sweden in response to cutbacks of state supported care services (cf. Jegermalm and Jeppsson Grassman 2012; Szebehely and
Trydegård 2012; Ulmanen and Szebehely 2015). Taking the previous arguments together, we hypothesize that adult children’s increased provision of household support is attributable to changes in parents’ receipt of state supported household services (*Hypothesis 3*).

**Data and methods**

*Data*

Our data are from the public release file of the Netherlands Kinship Panel Study (NKPS) (Dykstra et al. 2005; Dykstra et al. 2012; Hogerbrugge et al. 2015; Merz et al. 2012). In the first wave, 8,161 men and women aged 18–80, and living in private households, were interviewed. The overall response rate in wave 1 was 45 percent. Data collection of the first wave took place between 2002 and 2004 and the data for subsequent waves were collected in 2006-2007, 2011 and 2014, respectively. The numbers of respondents in follow-up interview rounds were, respectively, 6,091 (wave 2), 4,390 (wave 3) and 2,920 (wave 4). In all waves, the NKPS sample differed somewhat from the Dutch population at large. Most notably, women, middle-aged persons and higher educated persons were overrepresented (for more details, see Dykstra et al. 2005; Dykstra et al. 2012; Hogerbrugge et al. 2015; Merz et al. 2012).

We restricted our analyses to primary respondents aged 50-80 who had adult children and were in need of care, i.e. who reported that they had one or more prolonged illnesses, health disorders or handicaps that restricted them lightly or severely in their daily activities (cf. Walker, Pratt and Eddy 1995). Across waves, 2,770 interviews were conducted with 1,637 different respondents who met these criteria at the time of data collection. For the 692 primary respondents who met the inclusion criteria during multiple interviews, we only used one randomly selected interview. Respondents with missing values on any of the parent level variables of our interest (n=40) were dropped.
In each wave of the NKPS, parents were asked to provide information on up to two children who were randomly chosen when data for wave 1 were collected. The focus on two randomly selected children, rather than, for instance, the two oldest children or two children selected by the parent, has the benefit that the generalizability of our findings is not restricted to specific groups of children. We deleted 139 parents who did not provide any information on their children. The remaining parents provided at least partial information on 2,662 children. After list-wise deletion of observations with missing values on relevant child characteristics, observations of 2,197 children from 1,310 parents remained in the final sample.

**Weights**

Weighting was applied to adjust for potential bias in our estimates due to selective non-response and attrition. In the NKPS, weights are supplied that, for each wave, make primary respondents representative for the non-institutionalized adult population (in 2003) with regard to sex, age, household type, region and level of urbanization. It is important to note (1) that our unit of analysis was not the older parent in need of care (i.e., primary respondents who met our selection criteria), but the parent-child-dyad, and (2) that multiple parent-child dyads could be nested within the parent. This implies that the supplied weights, which were applicable to primary respondents, were too small for parent-child dyads from larger families and too large for parent-child dyads from small families. We therefore adjusted the supplied weights based on the respondent’s number of living children and the number of parent-child dyads nested within the respondent present in the sample. All analyses were repeated with unweighted data (results are available on request). The results of these analyses did not differ substantially from the results presented in this article.

**Measures**

The dependent variable in this study was household support provided by the adult child. For each of the up to two randomly selected children, respondents were asked whether this child
provided help with housework, such as preparing meals, cleaning, fetching groceries, doing the laundry during the last three months. The question allowed distinguishing occasional and frequent household support, with the answering categories being (1) “not at all”, (2) “once or twice”, and (3) “several times”.

We captured the changing Dutch LTC context with an indicator for the wave number. The intervals between rounds of data collection were largely equal, with roughly four years between waves. As described above, a notable shift from de-familialization to supported familialism has been taking place in the Netherlands between Wave 1 (2002-2004) and Wave 4 (2014).

The use of state supported household services – the supposed mediator of the change over time in our third hypothesis – was measured with a dummy variable indicating whether or not respondents reported using household services from a home care organization. We also considered possible suppressors of the time effects. Potential suppressors are alternative solutions for people with care needs to cope with the declining levels of de-familialization, net of which the increase in children’s provision of household support over time may be larger. Particularly, spouses and partners of persons in need may have become more involved in household tasks, or persons in need may have used out-of-pocket paid household services. For parents living with a spouse or partner, we therefore distinguished those who reported that their spouse or partner did at least half of tidying and cleaning tasks from those with less active spouses and partners. To capture use of out-of-pocket paid household services we included a dummy variable indicating whether or not respondents reported using paid domestic help from a private party.

To further minimize bias in the estimation of our time effects, we controlled for a range of parent and child characteristics that are known predictors of intergenerational support
Parent characteristics included in the models were gender, coded as 1 for mothers and 0 for fathers, age, number of children and number of siblings. A dummy variable captured whether or not the parent was divorced. We distinguished three categories of parents’ educational attainment: low (lower secondary education degree or less), intermediate (higher secondary education degree or a vocational degree) and high (bachelor, master or post-graduate degree). To measure the level of need, we included a dummy variable distinguishing parents who reported that their health problems restricted them severely in their daily activities (coded as 1) from those who reported being only lightly restricted (coded as 0).

Child characteristics in the model included gender, coded as 1 for daughters and 0 for sons and age. We further included a dummy variable capturing whether or not children were married. Geographic proximity to the parent was measured as the natural logarithm of the distance to the parent in kilometres. Descriptive statistics of our sample are presented in Table 1.

< Table 1 here>

Method

Given that the main focus of the current study is on the trend over time in the household provision by adult children of impaired older persons, we adopted a repeated cross-sectional design (Steel 2008; cf. Johansson, Sundström and Hassing 2003; Plaisier, Verbeek-Oudijk and De Klerk 2017). We estimated a series of multinomial regression models to predict adult children’s occasional and frequent provision of household support to ageing parents. In preliminary analyses we also estimated ordinal logistic regression models, but Brant tests
(Brant 1990) indicated that the parallel regression assumption underlying such models was violated. In other words, the correlates of occasional and frequent household support differed, and therefore multinomial models were preferable. We used Karlson, Holm and Breen’s decomposition method to test whether parental receipt of state supported household services significantly explained the changes in children’s provision of household support over time (Kohler, Karlson and Holm 2011).

For each of the continuous explanatory variables in our models (parent age, parent’s number of children, parent’s number of siblings, child age and parent-child distance) we estimated models in which squared terms were included and omitted and subsequently compared the Bayesian Information Criterion (BIC) fit statistics of the models to determine the optimal specification (Schwarz 1978). These analyses indicated that a curvilinear specification of the effect of child age and linear specifications for the other continuous variables provided the best fit. Our data have a nested structure, with observations of up to two children nested in parents. We accounted for potential heteroscedasticity due to the non-independence of the observations by estimating models with robust standard errors (White 1980).

**Results**

Results of our multinomial logistic regression analyses are presented in Table 2. In this table, no household support is the reference outcome. Consistent with our first hypothesis, Model 1 shows an increase in adult children’s provision of household support over time. In Wave 3 (2010-2011) and Wave 4 (2014) adult children of impaired parents were more likely than in Wave 1 (2002-2004) to provide occasional household support (i.e. once or twice during the last three months) relative to no household support. Moreover, frequent household support (i.e. several times during the last three months) relative to no household support was also more likely in Wave 4 than in Wave 1.
The model further shows that children were less likely to provide frequent household support relative to no household support when the parent lived with a spouse or partner, when the parent was divorced, and when the parent had a larger number of children. Intermediate and high, as opposed to low, levels of parental educational attainment were associated with higher odds of occasional household support provision relative to no household support. When parents’ health restrictions were severe, adult children were more likely to provide frequent household support relative to no household support.

Daughters were more likely than sons to provide occasional or frequent household support relative to no household support. Compared to their counterparts who were not married, married children were less likely to provide occasional or frequent household support relative to no household support. Older age of adult children was associated with lower odds of providing occasional household support relative to no household support, but with increasing age the negative effect of each additional year weakened. Greater geographic distance between parent and child was associated with lower odds of proving frequent household support relative to no household support.

We estimated an additional model to test our hypothesis positing that increases in the likelihood of providing household support were greater among daughters than sons (results not shown in Table 2). In this model we allowed the changes in household support provision by wave to vary as a function of child gender through the inclusion of an interaction term. This addition did not yield an improvement of the model fit (BIC: 3,286.4; full results are available on request). Our analyses thus did not support our second hypothesis. Although daughters were more likely than sons to provide occasional and frequent household support
relative to no household support, the increase in, particularly occasional, household support provision over time did not significantly differ between daughters and sons.

In Model 2, parental receipt of state supported household services was included. A comparison of BIC statistics indicated an improvement in model fit improved with this addition. The increase over time in, particularly occasional, household support remained statistically significant after adjusting for parental receipt of state supported household services and the magnitude of the effects of waves – and of those of the other independent variables in the model – did not change substantially between Model 1 and Model 2. It is therefore not surprising that a formal test of mediation using the KHB decomposition procedure yielded no significant results. No support was thus found for our third hypothesis positing that adult children’s increased provision of household support could be attributed to changes in parents’ receipt of state supported household services.

We estimated an additional model in which supposed suppressors of the time trend – out-of-pocket paid household services and support by spouses or partners – were included (results not shown in Table 2). A comparison of BIC scores indicated that the model with these additions did not fit our data better than the more parsimonious Model 2 presented in Table 2 (BIC: 3,272.3; full results are available on request). The effects for the presence of a partner who did at least half of tidying and cleaning tasks did not differ substantially from those of the presence of a less active partner. We also found no significant effects for out-of-pocket household services.

To grasp how adult children’s provision of household support increased between 2002 and 2014, we plotted average predicted probabilities for sons and daughters. These predicted probabilities, which were calculated based on Model 2, are presented in Figure 2. The figure
shows that the increase in adult children’s provision of, particularly occasional, household support was most pronounced in the second half of the period under investigation.

**Discussion**

Many countries where the state traditionally carried the main responsibility for the provision of care to older persons in need, such as Norway (Daatland 2015), Sweden (Ulmanen 2013), Finland (Kröger and Leinonen 2012) and the Netherlands (Da Roit 2012), have in the last decades made an increasingly strong appeal to the family to take on support tasks. They did so by placing restrictions on services provision and encouraging greater family involvement in caregiving tasks, particularly for lighter forms of support, such as household support. The Dutch case is illustrative for this change in approach. Drawing on the work of Saraceno (2010), the LTC reforms in the Netherlands could be perceived as shift away from de-familialization and towards supported familialism.

Our analyses suggest that the shift from de-familialization to supported familialism encouraged children to take on household support tasks. In the period studied (2002-2014), the predicted probability for children of parents in need of care to provide, particularly occasional, household support rose substantially. The rise in adult children’s provision of household support was most pronounced in the second half of the period under investigation, which roughly corresponds with the era after the introduction of the Wmo (in 2007). The underlying principle of this act was subsidiarity, i.e. the idea that the state should only take on support tasks which are beyond the capacity of individuals or private groups acting independently. This is in stark contrast with the pre-2007 situation when entitlements to a much more comprehensive range of care services were, in line with the principle of universalism, still individualized.
Our analyses showed that daughters more often provided household support to parents than did sons. We did not find, however, that this gender gap increased over time. Thus, our study does not substantiate Saraceno’s (2010) concerns that declines in levels of de-familialization might amplify gender inequalities in how care tasks are shared.

The odds that adult children provided occasional or frequent household support relative to no household support were higher when the parent received state supported household services. These findings are consistent with Chappell and Blandford’s (1991) complementarity model, which holds that state supported services encourage, rather than discourage, family members to help parents in need. When interpreting this result, potential endogeneity should be considered, i.e. the possibility of an unobserved factor associated with parents’ receipt of state supported household services as well as with children’s provision of household support. Unmeasured differences in need for care may for instance be such a factor. Using an instrumental variable approach, Bonsang (2009) has argued that there is substitution between informal care and formal care, particularly with regard to household support. We did not find, however, that the increase in children’s provision of household support was attributable to changes in the use of state supported household services.

The current study has some limitations. Our analyses were limited to household support because the NKPS had no information on other types of support, such as help with personal care. We believe, however, that a study specifically about household support is valuable, because, as described above, LTC reforms in universalistic countries specifically aimed to encourage family involvement in lighter care tasks. Furthermore, household support provided by friends or siblings could not be included in our models, because this information was not collected in the most recent waves of the NKPS. Descriptive statistics from NKPS Wave 1 data show that persons with health limitations rarely received household support from friends and siblings, however.
We did not have information on children’s normative beliefs about where the responsibility for the care for older persons lies. Should there have been a shift over time towards greater endorsement of family responsibilities, then this may offer an alternative explanation for why Dutch adult children became more likely to provide household support to impaired parents in the early 21st century. Recent work suggests, however, that the Dutch are more and more likely to espouse that the state is primarily responsible for eldercare and that caring responsibilities should not be imposed on family members (Van den Broek, Dykstra and Van der Veen 2015). Nevertheless, we cannot rule out the possibility that adult children are responsive to government appeals to take on responsibility, because they do not wish their ageing parents to be forsaken.

In the last years of the studied period, the economic crisis of 2008 hit the Netherlands. The unemployment rate rose from 3.7% in 2007 to 7.4% in the peak year 2014 (Source: OECD). The rise in unemployment may have meant that for more people the opportunity costs of providing care to a parent with health limitations were relatively low, because they were not or no longer engaged in paid work. Unfortunately, information on adult children’s employment status was not available in the NKPS. It should be noted, however, that longitudinal studies have shown that women’s engagement in informal caregiving results in reduced work hours or dropping out of paid work altogether, but employment status does not affect the likelihood of taking on caregiving (Berecki-Gisolf et al. 2008; Pavalko and Artis 1997). Given the unidirectionality of the association between caregiving and employment, it is unlikely that the trend in children’s household support found in this study can be attributed to rising levels of unemployment. When new data collected in the post-economic crisis period become available, future research can assess the persistence of the increase in adult children’s provision of household support as reported in the current study.
Another development that has taken place in the period under investigation is the rise in technological literacy among older persons (Zickuhr and Madden 2012) and the emergence of initiatives to develop information and communication technologies (ICT) to support caregivers. A recent review of such initiatives has shown that ICT-based services for informal caregivers have the potential to improve the quality of life of persons caring for older persons with health limitations, mainly by enabling them to better reconcile care and work (Carratero, Stewart and Centeno 2015). Although this potential quality of life gain for informal caregivers is valuable in and of its own right, we believe that it is unlikely that the emergence of experiments with ICT-based services for informal caregivers can explain the increase in adult children’s provision of household support, given that, as pointed out above, there is little evidence to suggest that engagement in paid work makes people less likely to take on care tasks in the first place.

Regardless of the limitations discussed here, the current study provides valuable insights on the implications of the increasingly strong appeal to the family to take on support tasks that, as in several other universalistic countries, has emerged in the Netherlands in the last decades. A recent study by Plaisier, Verbeek-Oudijk and De Klerk (2017) suggested that Dutch policy efforts to slow down the growth in the use of state supported care services have been successful. Much remained unknown, however, about the implications of the Dutch LTC reforms for the involvement in particularly lighter forms of family caregiving. In 2013, the Netherlands Institute for Social Research conducted a literature review about informal care provision in the Netherlands for the Dutch Ministry of Health, Welfare and Sport (De Boer and De Klerk 2013). The report concluded that around one fifth of the Dutch adult population provided informal care to handicapped and frail friends and relatives, and suggested there might be an increase in informal care provision over time (cf. De Boer 2017).

As a more general trend, interactions in intergenerational families appear to be increasing in
the Netherlands. Geurts, Van Tilburg, Poortman and Dykstra (2015) showed, for instance, that childcare by grandparents has increased between 1992 and 2006, despite a rising employment rate of grandparents. Van der Pas, Van Tilburg and Knipscheer (2007) found that more recent cohorts of older parents have more contact and support exchanges with their children than earlier cohorts. Our main finding of an increase over time in the adult children’s provision of household help to ageing parents is in line with this general trend of intensification of intergenerational support and with what LTC reforms aimed for.

**Statement of ethical approval**

Not applicable

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Sciences (University of Amsterdam), the Faculty of Social Sciences (Tilburg University), and the Faculty of Social Sciences (Erasmus University Rotterdam).

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Zickuhr, K. and Madden, M. 2012. Older adults and internet use. For the first time, half of adults aged 65 and older are online. Washington, DC: Pew Research Center.

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E-mail: m.p.van-den-broek@lse.ac.uk
FIGURE 1. Use of state supported household services in the Netherlands
Source: Statistics Netherlands
FIGURE 2. Predicted probabilities of household support provision
<table>
<thead>
<tr>
<th></th>
<th>Waves 1-4</th>
<th>Wave 1</th>
<th>Wave 2</th>
<th>Wave 3</th>
<th>Wave 4</th>
</tr>
</thead>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>Occasional household support</td>
<td>15.0%</td>
<td>11.0%</td>
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<td>19.9%</td>
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<td>9.9%</td>
<td>10.3%</td>
<td>15.5%</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>Female</td>
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<td>50.5%</td>
<td>52.5%</td>
<td>54.0%</td>
<td>61.3%</td>
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<td>66.4</td>
<td>66.6</td>
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<td>(8.6)</td>
<td>(8.9)</td>
<td>(8.7)</td>
<td>(8.3)</td>
</tr>
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<td></td>
<td></td>
</tr>
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<td>32.6%</td>
<td>32.5%</td>
<td>32.4%</td>
<td>32.1%</td>
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<td>19.8%</td>
<td>22.0%</td>
<td>20.3%</td>
<td>25.0%</td>
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<tr>
<td>Partner, involved in HH tasks</td>
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<td>47.6%</td>
<td>45.5%</td>
<td>47.3%</td>
<td>42.9%</td>
</tr>
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<td>14.1%</td>
<td>12.3%</td>
<td>10.5%</td>
<td>12.3%</td>
</tr>
<tr>
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<td>3.4</td>
<td>3.4</td>
<td>3.1</td>
<td>2.8</td>
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<tr>
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<td>(1.7)</td>
<td>(1.8)</td>
<td>(1.5)</td>
<td>(1.2)</td>
</tr>
<tr>
<td>Mean number of siblings</td>
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<td>4.2</td>
<td>4.2</td>
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<tr>
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<td>(2.9)</td>
<td>(2.7)</td>
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<td>(2.7)</td>
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<td></td>
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<td>Low</td>
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<td>61.8%</td>
<td>45.3%</td>
<td>41.8%</td>
</tr>
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<td>21.1%</td>
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<td>20.3%</td>
<td>25.3%</td>
<td>25.0%</td>
</tr>
<tr>
<td>High</td>
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<td>17.6%</td>
<td>17.9%</td>
<td>29.4%</td>
<td>33.3%</td>
</tr>
<tr>
<td>Severe health restrictions</td>
<td>32.2%</td>
<td>42.7%</td>
<td>31.3%</td>
<td>21.2%</td>
<td>21.0%</td>
</tr>
<tr>
<td>State supported HH services</td>
<td>12.5%</td>
<td>13.3%</td>
<td>12.7%</td>
<td>13.6%</td>
<td>8.2%</td>
</tr>
<tr>
<td>Out-of-pocket HH services</td>
<td>13.5%</td>
<td>14.4%</td>
<td>9.3%</td>
<td>15.2%</td>
<td>16.8%</td>
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<tr>
<td>Child characteristics:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
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<td>51.2%</td>
<td>49.5%</td>
<td>47.7%</td>
<td>52.9%</td>
</tr>
<tr>
<td>Mean age</td>
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<td>38.7</td>
<td>39.4</td>
<td>38.7</td>
<td>40.3</td>
</tr>
<tr>
<td>(Standard deviation)</td>
<td>(8.5)</td>
<td>(8.3)</td>
<td>(8.4)</td>
<td>(8.9)</td>
<td>(8.2)</td>
</tr>
<tr>
<td>Married</td>
<td>55.0%</td>
<td>60.1%</td>
<td>55.6%</td>
<td>47.6%</td>
<td>50.7%</td>
</tr>
<tr>
<td>Mean distance to parent (in km)</td>
<td>27.3</td>
<td>28.3</td>
<td>26.1</td>
<td>27.4</td>
<td>26.6</td>
</tr>
<tr>
<td>(Standard deviation)</td>
<td>(40.8)</td>
<td>(40.6)</td>
<td>(39.8)</td>
<td>(43.8)</td>
<td>(38.8)</td>
</tr>
</tbody>
</table>

Wave:
- Wave 1 (2002-2004) 39.0%
- Wave 2 (2006-2007) 26.7%
- Wave 3 (2010-2011) 20.4%
- Wave 4 (2014) 14.0%

Number of observations
|              | 2,197 | 862  | 567  | 433  | 335  |

Source: Netherlands Kinship Panel Study, Waves 1-4; weighted; * values represent scores before log transformation
TABLE 2. Results of multinomial logistic regression models of household support

<table>
<thead>
<tr>
<th>Variable</th>
<th>Occasional HH support</th>
<th>Frequent HH support</th>
<th>Occasional HH support</th>
<th>Frequent HH support</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>b (SE)</td>
<td>b (SE)</td>
<td>b (SE)</td>
<td>b (SE)</td>
</tr>
<tr>
<td>Wave:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wave 1 (2002-2004)</td>
<td>(ref.)</td>
<td>(ref.)</td>
<td>(ref.)</td>
<td>(ref.)</td>
</tr>
<tr>
<td>Wave 2 (2006-2007)</td>
<td>0.13 (0.21)</td>
<td>-0.09 (0.22)</td>
<td>0.13 (0.21)</td>
<td>-0.09 (0.22)</td>
</tr>
<tr>
<td>Wave 3 (2010-2011)</td>
<td>0.55* (0.22)</td>
<td>0.00 (0.30)</td>
<td>0.54* (0.22)</td>
<td>-0.02 (0.30)</td>
</tr>
<tr>
<td>Wave 4 (2014)</td>
<td>0.94*** (0.22)</td>
<td>0.61* (0.26)</td>
<td>0.97*** (0.23)</td>
<td>0.62* (0.26)</td>
</tr>
<tr>
<td>Parent characteristics:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>0.25 (0.16)</td>
<td>0.09 (0.21)</td>
<td>0.24 (0.16)</td>
<td>0.07 (0.21)</td>
</tr>
<tr>
<td>Age</td>
<td>0.00 (0.02)</td>
<td>0.00 (0.02)</td>
<td>-0.00 (0.02)</td>
<td>-0.00 (0.02)</td>
</tr>
<tr>
<td>Lives with spouse / partner</td>
<td>-0.14 (0.22)</td>
<td>-1.24*** (0.22)</td>
<td>0.00 (0.23)</td>
<td>-1.16*** (0.22)</td>
</tr>
<tr>
<td>Divorced</td>
<td>-0.37 (0.29)</td>
<td>-0.98*** (0.28)</td>
<td>-0.36 (0.28)</td>
<td>-0.98*** (0.27)</td>
</tr>
<tr>
<td>Number of children</td>
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<td>-0.14* (0.06)</td>
<td>0.06 (0.07)</td>
<td>-0.14* (0.06)</td>
</tr>
<tr>
<td>Number of siblings</td>
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<td>0.01 (0.03)</td>
<td>0.00 (0.03)</td>
<td>0.01 (0.03)</td>
</tr>
<tr>
<td>Educational attainment:</td>
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<td></td>
</tr>
<tr>
<td>Low</td>
<td>(ref.)</td>
<td></td>
<td>(ref.)</td>
<td></td>
</tr>
<tr>
<td>Intermediate</td>
<td>0.46* (0.20)</td>
<td>0.32 (0.24)</td>
<td>0.50* (0.20)</td>
<td>0.35 (0.24)</td>
</tr>
<tr>
<td>High</td>
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<td>0.16 (0.29)</td>
<td>0.74*** (0.20)</td>
<td>0.20 (0.30)</td>
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<tr>
<td>Severe health restrictions</td>
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<td>0.53** (0.18)</td>
<td>-0.11 (0.17)</td>
<td>0.47** (0.18)</td>
</tr>
<tr>
<td>State supported HH services</td>
<td></td>
<td></td>
<td>0.79** (0.24)</td>
<td>0.52* (0.25)</td>
</tr>
<tr>
<td>Child characteristics:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>0.43** (0.16)</td>
<td>0.82*** (0.18)</td>
<td>0.43** (0.16)</td>
<td>0.82*** (0.18)</td>
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<tr>
<td>Age</td>
<td>-0.25** (0.08)</td>
<td>-0.13 (0.09)</td>
<td>-0.23** (0.08)</td>
<td>-0.11 (0.09)</td>
</tr>
<tr>
<td>Age squared</td>
<td>0.00*** (0.00)</td>
<td>0.00 (0.00)</td>
<td>0.00* (0.00)</td>
<td>0.00 (0.00)</td>
</tr>
<tr>
<td>Married</td>
<td>-0.46** (0.16)</td>
<td>-0.80*** (0.18)</td>
<td>-0.48** (0.16)</td>
<td>-0.83*** (0.18)</td>
</tr>
<tr>
<td>Distance to parent (km (log))</td>
<td>-0.06 (0.06)</td>
<td>-0.41*** (0.06)</td>
<td>-0.06 (0.06)</td>
<td>-0.41*** (0.06)</td>
</tr>
<tr>
<td>Constant</td>
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<td>2.37 (1.66)</td>
<td>2.74 (1.67)</td>
<td>2.36 (1.67)</td>
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<tr>
<td>Bayesian Information Criterion (BIC)</td>
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<td>2.37 (1.66)</td>
<td>2.74 (1.67)</td>
<td>2.36 (1.67)</td>
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<tr>
<td>Pseudo R² (McFadden)</td>
<td>0.380</td>
<td>0.383</td>
<td>0.380</td>
<td>0.383</td>
</tr>
</tbody>
</table>

Source: Netherlands Kinship Panel Study, Waves 1-4; n=2,197; Reference category: No HH support; Models estimated with robust standard errors; * p < .05, ** p < .01, *** p < .001