

Dementia, help with financial management, and well-being

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DEMENTIA, HELP WITH FINANCIAL MANAGEMENT, AND WELL-BEING

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Abstract

Earlier research indicated that the vast majority of retirees with dementia do not use the U.S. Social Security Administration's Representative Payee Program, despite the fact that many have lost the capacity to manage their own finances. However, that research also indicated that most retirees with dementia do have access to informal caregivers who could assist them (e.g., a resident adult child or non-impaired spouse), but the research did not examine whether those individuals provided assistance specifically with financial management. This paper uses the *National Health and Aging Trends Study* to determine whether beneficiaries with dementia receive help from their informal caregivers in managing their finances. The paper also examines the financial well-being of those with assistance compared to those without assistance.

This paper found that:

- Over 85 percent of individuals with dementia receive informal help with simple banking matters like paying bills, as well as complex matters like managing retirement accounts.
- Those with dementia who receive help are indistinguishable from those without dementia in terms of any difficulties they experience paying for utilities, rent, medicine, and food.
- The minority of adults who have dementia but do not receive help managing their money are more likely to experience difficulty paying for necessities.
- The apparent benefits of informal help is robust to controls for socioeconomic factors like race, education, and income.

The policy implications of this paper are:

- One reason the Representative Payee Program may be used infrequently by those with dementia is that they have informal sources of assistance with their finances.
- Because that assistance is generally successful in preventing financial distress, families may feel the need to utilize the program only as a last resort.

Introduction

The human life cycle starts and ends with dependence. The growing pains associated with becoming a self-sufficient adult are well documented. But as people grow old and lose physical and mental capacity, they often face a difficult transition from that hard won self-sufficiency to dependence. For older adults who develop dementia, this loss of capacity is particularly severe and drawn-out: people can live a decade or more with dementia but will need help with a wide range of routine activities, such as cooking and dressing, as the disease progresses. The ultimate result is that people with dementia often lose their autonomy as caregivers step in to prevent them from hurting themselves or others. Unlike children, who are legally required to have a guardian make important decisions on their behalf, dementia patients are not required to give up their independence and may be slow to relinquish control of their affairs. As a result, control over decisions must be negotiated within families or, in extreme cases, decided in a court of law.

One particularly difficult transition that adults with dementia and their caregivers must navigate is relinquishing control over financial decisions. Indeed, an early sign of dementia is difficulty managing one's finances, and within a few years of developing dementia, most people lose the capacity to manage their money in their own best interest.¹ Yet, they are often unaware of their impaired judgment and resist giving up control.² People in the early stages of dementia are susceptible to fraud and likely to make financial mistakes.³ As dementia progresses and they become increasingly dependent on caregivers to carry out everyday activities, the risk of financial abuse increases.⁴

To prevent financial exploitation, Social Security allows beneficiaries who cannot manage their own benefits to turn over control of them to a representative payee. Once designated, a representative payee is required to decide how to spend a beneficiary's Social Security income and keep records of that spending to prove the benefits were spent appropriately. Most of the 5.5 million people participating in the Social Security Administration's (SSA) Representative Payee Program are children – who require a legal guardian – or disabled adults.⁵ However, a little over half-a-million retirement beneficiaries

¹ See Widera et al. (2011) for a good review of the literature.

² Hsu and Willis (2013).

³ Triebel et al., (2009); Martin et al. (2003).

⁴ New York City Department of Aging (2011).

⁵ Over 3 million SSI recipients also have representative payees.

have representative payees. While this number may seem large, it represents less than 2 percent of the 65-and-older population, even though over 10 percent of them have dementia.⁶ This imbalance is reflected in a recent study by Belbase and Sanzenbacher (2016) that finds just over 9 percent of retirees with dementia have representative payees. As a result, some studies have suggested that SSA should cover more retirees under its Representative Payee Program.⁷

But to some observers, the program is striking the correct balance between maintaining the autonomy of beneficiaries and ensuring that their payments are spent in their best interests. The reason for the disagreement over whether the program is underutilized stems from the unique problem posed by dementia. Some individuals with dementia can still receive and manage their own benefit, while others cannot.⁸ Although almost all people with common forms of dementia will eventually lose the ability to manage their finances, caregivers initially can be involved in joint decisions before permanently “taking the keys away” as impairment becomes more severe. So the difference between those who need payees and those who do not often comes down to the quality of each individual’s informal care network – which Social Security cannot observe. Simply assuming those with dementia need a payee risks taking away someone’s independence prematurely.⁹

Indeed, recent research suggests that Social Security beneficiaries with dementia have access to potential sources of help, perhaps limiting the need for representative payees. Belbase and Sanzenbacher (2016) find that 95 percent of beneficiaries with dementia either have a representative payee, have a non-impaired spouse or child, have given someone power of attorney, or live in a nursing home where they often do not need to manage finances. In other words, despite the fact that payee use is uncommon, very few individuals with dementia are living in the community without any form of assistance. At the same time, the data used in the 2016 study did not include complete information on whether the informal care network specifically provided assistance with financial management.¹⁰ To date, it is not known to what

⁶ Anguelov, Ravida, and Weathers II (2015); Herbert et al. (2013).

⁷ For example, a 2010 audit by the Office of the Inspector General found retirees over the age of 85 in need of a payee, and some experts have argued that the process used by field offices to determine financial capacity errs on the side of finding someone capable rather than incapable.

⁸ Widera et al. (2011).

⁹ Barry, Brandon, Apesoa-Varano, and Gomez (2015).

¹⁰ The *Health and Retirement Study* used in this earlier research asks about help with the IADL related to financial management but only if individuals indicated they needed help. Since some individuals may be receiving help but also claim they do not need it, it is unclear this line of questioning provides complete information on coverage.

extent these sources of help actually assist in managing the finances of those with dementia, and whether this help prevents financial misuse or abuse.

This project fills this gap in the literature by examining the role of informal caregivers in helping beneficiaries with dementia manage their financial affairs using a relatively new dataset, the *National Health and Aging Trends Study* (NHATS). In particular, the study examines whether retirees' informal care networks provide help with simple financial matters like bill paying and complex matters like managing retirement accounts as they transition from normal cognition to potential dementia and ultimately to having established dementia for three or more consecutive years. The project also examines the extent to which having this help improves retirees' financial well-being and the extent to which those without help suffer negative consequences.

The results suggest that over 85 percent of those with established dementia receive help both with simple banking matters and with more complicated money matters (if they have complicated financial matters to deal with). Those receiving help with their finances appear to be as financially well off as those without dementia, as measured by problems affording food, rent, utility payments, and medical bills. This finding persists even when controlling for socioeconomic factors likely correlated with both having help available and with financial well-being (e.g., education, race). On the other hand, the 15 percent of those with established dementia who do not have help with their financial management are twice as likely as those with no cognitive impairment to have difficulty making ends meet. This result supports the notion that informal help has a positive impact on financial well-being – despite the risk that the informal helpers may not be financially savvy or could engage in neglect or abuse.

The remainder of the paper is organized as follows. The second section describes the data and empirical approach and the third section reports results. The final section concludes that the NHATS data suggest that one reason many retirees do not utilize the representative payee program is that they have help with financial management from their informal care networks. However, as the baby boom generation approaches old age, it is still worth considering how best to provide help to those that do not yet have it.

Data and Empirical Strategy

The NHATS is a nationally representative sample of Medicare beneficiaries ages 65 and older. Since 2011, the NHATS has conducted annual, in-person interviews to capture trends in late-life functioning. The dataset provides a comprehensive view of how older adults adapt to the changes associated with aging by capturing variables on their economic and psychological well-being, difficulty carrying out daily activities, and help or accommodations made to carry out those activities. This paper uses NHATS data from 2011-2014, during which a total of 8,245 people were interviewed.¹¹ Respondents were excluded from the sample if they lived in nursing homes or had irregularities in their dementia classification (see discussion below), resulting in a sample consisting of 7,363 respondents.¹² The NHATS collects data on individual demographics, and the variables used in this study include gender, race, marital status, education, and income. The NHATS also includes data on health, which the paper uses to create an index of major health conditions for each respondent using the self- or proxy-reported existence of a variety of chronic conditions and diseases.¹³ The multimorbidity index is the number of chronic conditions and diseases diagnosed by a doctor (heart attack, heart disease, high blood pressure, arthritis, osteoporosis, diabetes, lung disease, stroke, or cancer).

An important aspect of NHATS is the use of proxies to provide answers on behalf of sample respondents.¹⁴ For this study of financial assistance and dementia, proxies are particularly important because retirees can participate if they have or are developing dementia, when some may lack the capacity to respond to a survey. Thus, this study can examine how adaptations to declining cognitive functioning – especially the availability of financial assistance in the later-stages of dementia – affect well-being even when people lose the capacity to respond themselves.

This study proceeds in four steps. First, it identifies members of the sample who experience cognitive impairment or dementia. Second, it identifies their sources of assistance with financial management. Third, it identifies measures of financial and psychological well-

¹¹ The 2015 NHATS data were excluded from this analysis, because a large portion of the sample was refreshed that year, and this study relies on longitudinal trends to classify people with early or late-stage dementia.

¹² NHATS tends to oversample older people and African-Americans. For more on NHATS sampling, see Montaquila et al. (2012).

¹³ See Patel et al. (2014), Hunt et al. (2015), and Soones et al. (2016).

¹⁴ Proxies were used if the sample respondents had dementia, illness, speech/hearing impairment, language barriers or were temporarily unavailable or deceased. In its regression analysis, the study controls for the proxy status of the respondent, in case proxies tend to respond differently than the respondents themselves.

being, and finally estimates the relationship between these measures of well-being and assistance with finances.

Identifying Cognitive Impairment and Dementia

To identify respondents with cognitive impairment and dementia, this study relies on the methodology of Kasper et al. (2013). Recognizing that the NHATS (like most publicly available microeconomic data) does not contain medical diagnoses of dementia, Kasper et al. (2013) creates an algorithm using self-reported diagnoses of dementia, results of dementia screening interviews, and cognitive test scores to classify people as either having “no dementia,” “possible dementia,” or “probable dementia.” While this method is well grounded in the literature, it is not without limitations.¹⁵ An indirect study of dementia may lead to a misidentification of the condition. To reduce the chance of incorrectly classifying people without dementia as having it, this study dropped participants from the analysis if their dementia classification improved over time.¹⁶ These cases were likely due to classification error since dementia is a degenerative disease.

Another limitation of the Kasper et al. approach with respect to this study is that it assigns a probability of dementia without necessarily measuring the severity. Since financial management help becomes increasingly important to prevent financial mistakes as dementia progresses, this study needs a way to measure the severity of dementia. To this end, this paper uses the longitudinal nature of the NHATS dataset to build on the Kasper et al. algorithm. Specifically, this paper classifies respondents as having no impairment, impairment, potential dementia, or established dementia based on the severity and frequency of their Kasper et al. classifications.¹⁷ Respondents are classified as not impaired if they had two or more years without dementia, with possible dementia, or with a combination of the two. Respondents are impaired, but without dementia, if they had possible dementia for three or more years. Respondents have potential dementia if they had either possible or probable dementia in each of

¹⁵ For more on limitations of NHATS dementia classification, see Kasper et al. (2013).

¹⁶ This dropped 882 respondents from the sample.

¹⁷ An ideal classification would group people as having early, intermediate, and late-stage dementia using criteria that are consistent with the corresponding clinical classifications for each stage. Unfortunately, the NHATS dataset does not provide the information necessary to use this ideal classification. As a result, those with “established dementia” in this study include a mix of individuals who could be classified as having late- or intermediate-stage dementia.

the four survey years. Finally, respondents are classified as having established dementia if they had probable dementia for three or more consecutive years.

Sources of Assistance for Financial Management and Other Activities

To identify financial management help received by those with dementia, this paper examines the answers to questions on two topics: 1) how simple money matters were handled in the past month; and 2) whether respondents had any help with more complicated money matters in the past year. Simple money matters include writing checks, sending money orders or paying with cash, checking bank-balances, and making transfers, deposits or withdrawals from a bank or ATM. This paper classifies help with simple money matters in three ways: 1) received no help; 2) completed task together with someone; or 3) someone else carried out the task. If a respondent reports that they received help with their simple money matters, they are asked whether or not the help was received due to poor health or another degradation in their functional capacity (including deficits related to age, memory, vision, health condition/disease names, surgery, driving ability) or due to some other reason. If a respondent faced a less common money matter in the past year – for example, opening, closing, or cashing in certificates of deposits, checking and managing money market or retirement accounts, or applying for loans – they were simply asked if anyone helped them with these, and if so, who.

Although the focus of the paper is on financial management, controlling for the availability of informal assistance with other types of daily activities is also important, because the study attempts to distinguish the effects of financial help from other factors that might improve well-being. To assess the overall level of care received by dementia patients, this paper creates a dependency index for Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL).¹⁸ The ADL index is the sum of assistance needed to bathe/shower, eat, dress, and go to the toilet, as well as assistance with basic mobility indoors and outdoors.¹⁹ The IADL index is the sum of assistance needed to shop for groceries, cook hot meals, do laundry, and manage finances. This study also creates a measure of size of each respondents' care network, which is the number of unique helpers who assist with mobility, driving and transportation, household activities, self-care activities, and medical care activities.²⁰ Within the

¹⁸ See Stern et al. (1994) or Özjan et al. (2016).

¹⁹ See Lin (2014).

²⁰ See Andersson and Monin (2017).

total care network, this study also identifies the total number of relatives and non-relatives providing care in case the quality of care differs between the two.

Measuring Well-being

This project measures two types of well-being: financial and psychological. Financial well-being is captured through the presence of food insecurity and measures of financial hardship. This study assesses food insecurity by whether respondents had skipped meals in the past month because they did not have enough money to buy food. Financial hardship is measured by whether survey participants reported instances in the past year of not having enough money to pay the rent/mortgage, utility bills, or medical/prescription drug bills.

To identify psychological well-being, the study uses the Generalized Anxiety Disorder scale-2 (GAD-2), which is part of the NHATS survey. Respondents to GAD-2 reported how often over the past month they felt nervous, anxious, or on edge, and if they had been unable to stop or control worrying.²¹ This study did not use other NHATS measures of psychological well-being like feelings of autonomy, because these questions were not asked of the proxy respondents, who make up a substantial part of the sample that have dementia.

Results

The goal of the study is to identify what share of those with dementia have assistance in general and with their finances specifically and then to identify how that assistance (or lack thereof) affects their well-being.

Dementia and Caregiving

About 21 percent of person-year observations in the sample have either potential or established dementia, with 7 percent having established dementia. Figure 1 shows that older members of the sample, as expected, are much more likely to have dementia than younger ones. For observations between ages 65 and 69, just 3 percent have established dementia, with the number increasing to over 25 percent for observations in their 80s. In addition to the vulnerability inherent in having dementia, Table 1 shows that those with dementia are generally

²¹ See Appendix for the specification used in the study.

more economically vulnerable: they are more likely to earn less than \$25,000 per year, less likely to have a high school degree, more likely to be a woman, and more likely to be widowed.

As dementia develops, individuals require more and more assistance. Figure 2 shows that by the time people have established dementia, they need help with 2.3 ADLS – basic activities like using the toilet or eating – and 2.3 IADLS – activities like grocery shopping and laundry. Indeed, 50 percent of those with established dementia need assistance to carry out three or more IADLs. Formal and informal caregivers are instrumental in providing help with these daily activities, with one to two caregivers typically providing care for a person with dementia. As Figure 3 shows, as dementia progresses, and the caregiving need increases and so does the size of the network providing care.

Traditionally, women have held greater responsibilities than men in caring for the elderly, and this trend is reflected in this study.²² As Figure 4 shows, close kin – spouses and children – serve as the backbone of the caregiving network, but the composition of the network appears to change as dementia progresses. As it progresses, spouses were replaced by children, particularly daughters. The caregiving network provides help with a range of activities including mobility, driving and transportation, and household, self-care, and medical activities.²³ But while these sources of care are all important, this study is specifically interested in whether this caregiving network helps with financial matters.

To What Extent Do Caregivers Help Manage Money, and Who Provides the Help?

The previous section showed that care networks grow considerably as people move from no cognitive impairment to established dementia. But while these individuals clearly have help with care generally, a diagnosis of dementia comes with a social disenfranchisement that might make them resistant to a change in their role identities until after they experience difficulties with their finances²⁴ – in other words, when it is too late. Fortunately, as Figure 5 and 6 shows, over 85 percent of those with established dementia receive some form of help with both simple and complicated money matters (should they have them).

As with other types of assistance, Figure 7 shows that spouses and daughters provide assistance with finances in most cases, and relatives are the ones providing help in almost all

²² See Bookman and Kimbrel (2011) or Riffin et al. (2017).

²³ See Andersson and Monin (2017); Riffin et al. (2017).

²⁴ See Beard and Fox (2008).

cases. But as people progress through the stages of dementia, spouses become less involved in managing money and children become much more involved. Across all activities for daily living and financial management, Figure 8 shows that daughters continued to play a larger role than sons in providing help for people with established dementia. So the good news is that people with established dementia clearly have help available with their finances. This finding is especially important given Belbase and Sanzenbacher's (2016) finding that most do not use a representative payee. A remaining question is how well that financial assistance works.

To What Extent Does Help Managing Money Affect Well-Being?

At a descriptive level, help managing finances appears to be positively correlated with the financial well-being of people with established dementia. Figures 9 and 10 show that if people with dementia get help with their finances, they look just like those without cognitive impairment in terms of their ability to pay for food, rent, utilities, and medicine. On the other hand, if people with established dementia do not get help managing their finances, they appear to suffer financially. In some cases, the differences are stark. For example, about 3 percent of people without impairment have trouble paying their utility bills. This increases to over 6 percent for those with established dementia and no help. But the share goes back down to 3 percent for those with established dementia who have a source of financial management assistance. Still, it is easy to imagine scenarios where that improvement has nothing to do with the help itself, but rather the characteristics of those receiving the help. For example, if those with access to financial management assistance are more educated, then the result shown in Figures 9 and 10 may simply be reflecting their education levels.

To investigate this issue further, we conducted a regression analysis, controlling for these other factors, to examine the effect on financial well-being of having assistance. The regression takes the following form:

$$f_{i,t} = \beta_0 + \beta_1 Dem_{i,t} + \beta_2 * Assist_{i,t} + \beta_3 Dem_{i,t} * Assist_{i,t} + X_{i,t}\gamma + \varepsilon_{i,t} \quad (1)$$

Where $f_{i,t}$ indicates that individual i had trouble at time t with at least one of the indicators of financial distress tabulated in Figures 9 and 10; $Dem_{i,t}$ indicates the individual has dementia; $Assist_{i,t}$ indicates they have assistance with simple or complicated money matters;

and $X_{i,t}$ is a vector of individual-level controls. These individual-level controls include standard demographic variables like education, race, income, and age and a control for whether there was a proxy respondent. The control for a proxy is important in case proxies view the financial status of respondents differently than the respondent themselves. The coefficient β_1 indicates dementia's effect on well-being in the absence of assistance; β_2 is the effect of assistance on well-being in the absence of dementia; and β_3 is the effect of assistance on well-being for someone with dementia. The primary coefficient of interest is β_3 , which can be interpreted as the relationship between assistance and well-being for those with dementia holding constant the other factors considered.

The results of this regression appear in Table 2. They show that people with established dementia who have no assistance are significantly worse off – being 7.1 percent more likely to have financial distress than those without dementia. But the table also shows that having dementia with assistance effectively offsets this with a reduction of 9.9 percent. Other coefficients have the expected signs, with lower income, less education, and minority status being associated with significantly higher rates of financial difficulty. One thing worth noting is that the regression included two controls for dementia, one for established dementia and one for potential dementia (for simplicity, equation (1) showed just one control for dementia). It seems the relationship between help and well-being exists only for people with established dementia. For people with potential dementia or only cognitive impairment, no clear relationships exist between receiving informal help and financial well-being. This may reflect that while those with established dementia need assistance regardless of their initial financial ability, those with potential dementia receive help only when they are in trouble. Unfortunately, the regression cannot provide a definitive answer.

Regarding psychological outcomes, the paper runs the same regression reported in Table 2, but replaces the dependent variable with whether or not the person has anxiety. The same general pattern emerges in this regression, shown in Table 3. People with established dementia who have no assistance are 13.3 percent more likely to have anxiety, and again the effect seems to be somewhat offset if the individual has assistance, with a reduction of 8.0 percent. Financial assistance seems to be associated with improved outcomes both on the financial and psychological front. Although it is difficult to attribute these positive outcomes to the assistance itself even using regression analysis, the fact that the relationship holds up even given the use of

controls suggests it is somewhat robust. Future research should attempt to establish a causal relationship between informal caregiving and financial well-being.

Conclusion

Social Security's Representative Payee Program protects beneficiaries who lack the capacity to use their benefits in their own best interest. Most of the program's payees represent children, who require a guardian to manage their finances. But many recipients of old-age benefits who have dementia, especially late-stage dementia, also lack the capacity to handle their financial affairs, making them vulnerable to financial exploitation.²⁵ Yet only 9 percent of people with dementia appear to use a representative payee.²⁶ This paper suggests one logical explanation for this low usage: informal caregivers step in to manage finances in the same way that they help carry out a range of other daily activities. In this context, a person with established dementia may not need a payee if he or she lives with a spouse who has been handling the household finances or has an adult child who takes over, while a different person living alone with late stage dementia would plausibly benefit from a payee. These findings suggest that for most families, the representative payee program might need to serve only as a last resort (similar to legal guardianship) when help is either unavailable or not working. In most cases, however, family members appear to successfully negotiate control over their elderly family members' daily activities including finances.

²⁵ For decline in financial capacity see: Pérès et al. (2008) and Widera et al. (2011). For exploitation, see Peterson et al (2014).

²⁶ See: Belbase and Sanzenbacher (2016).

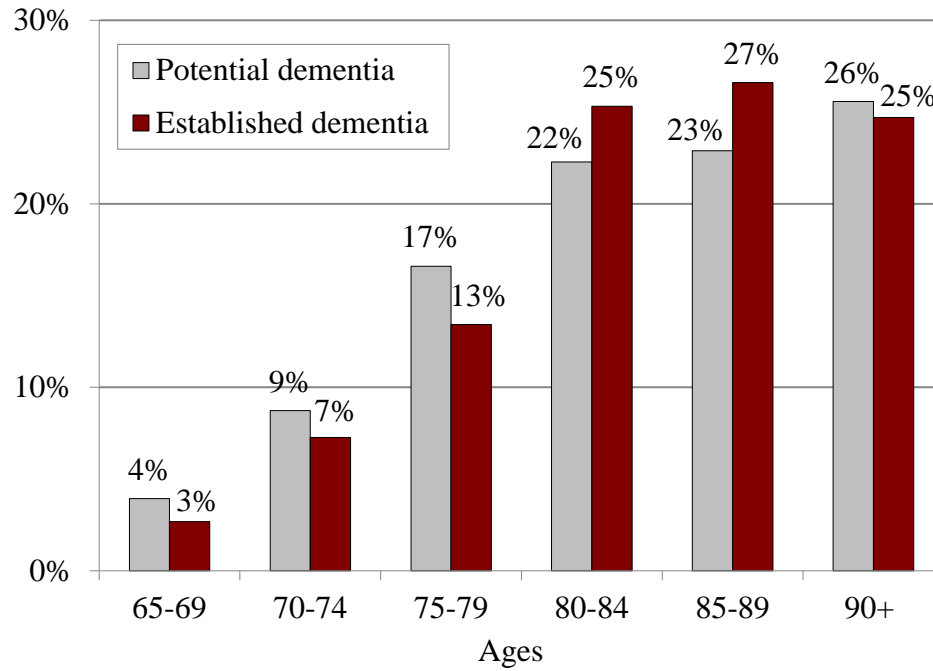
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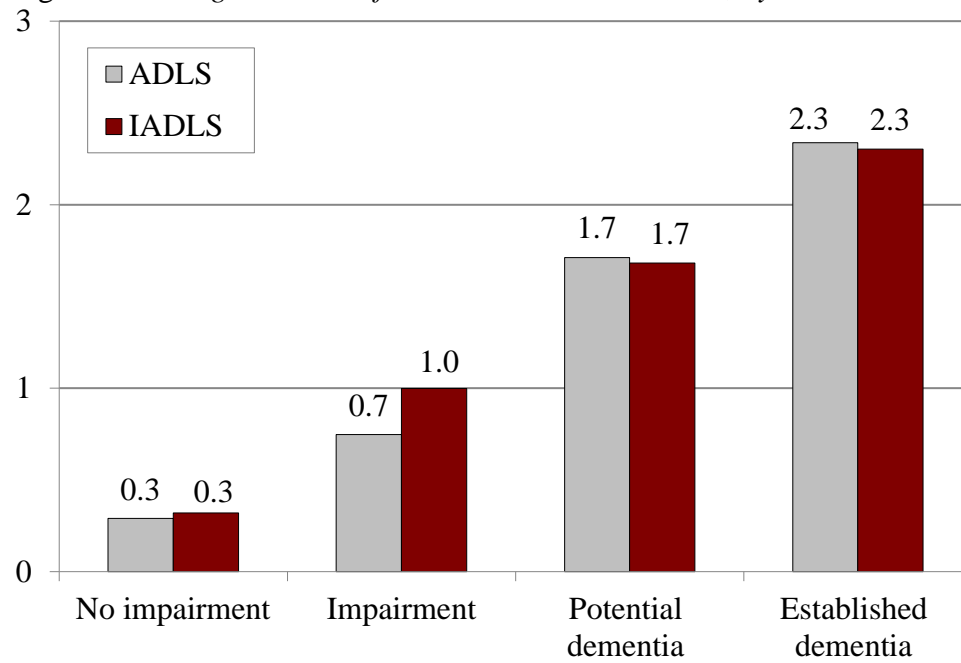
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Figure 1. *Share of Sample with Potential or Established Dementia, by Age*



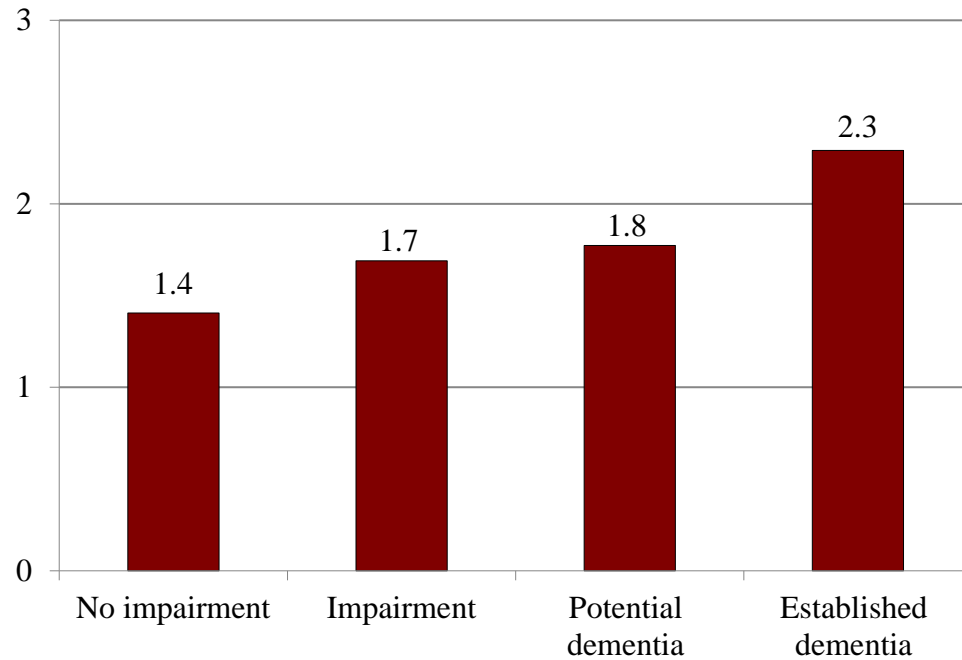
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 2. *Average Number of Assisted ADLs and IADLs, by Dementia Status*



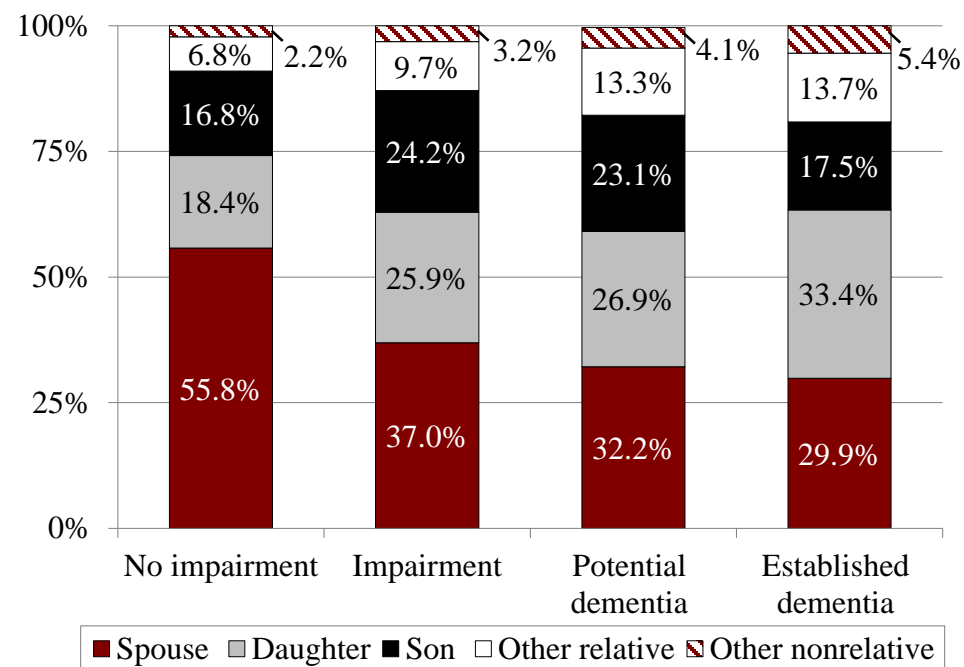
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 3. *Average Number of People Providing Some Assistance, by Dementia Status*



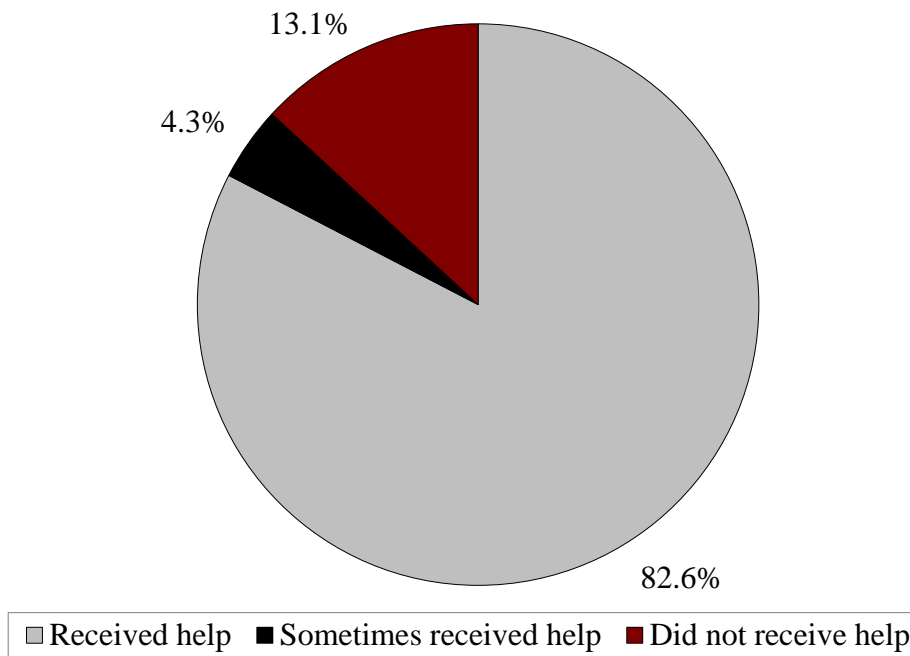
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 4. *Composition of Care Network*



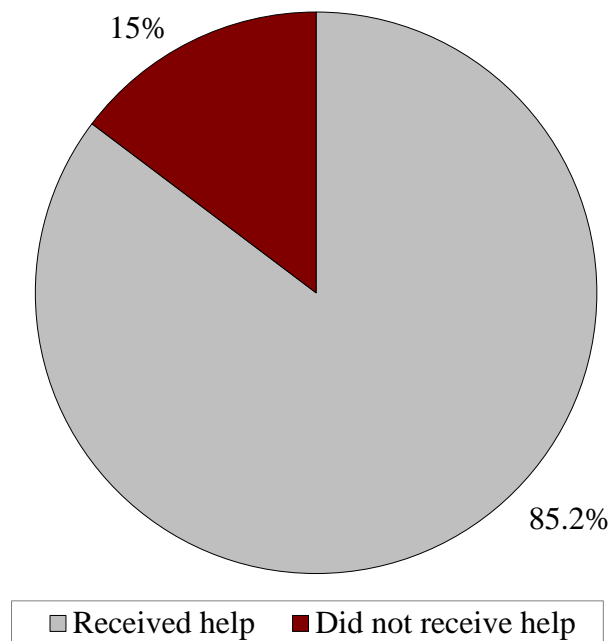
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 5. *Share with Established Dementia Who Have Simple Banking Matters and Receive Help*



Source: Authors' calculation from the NHATS, 2011-2014.

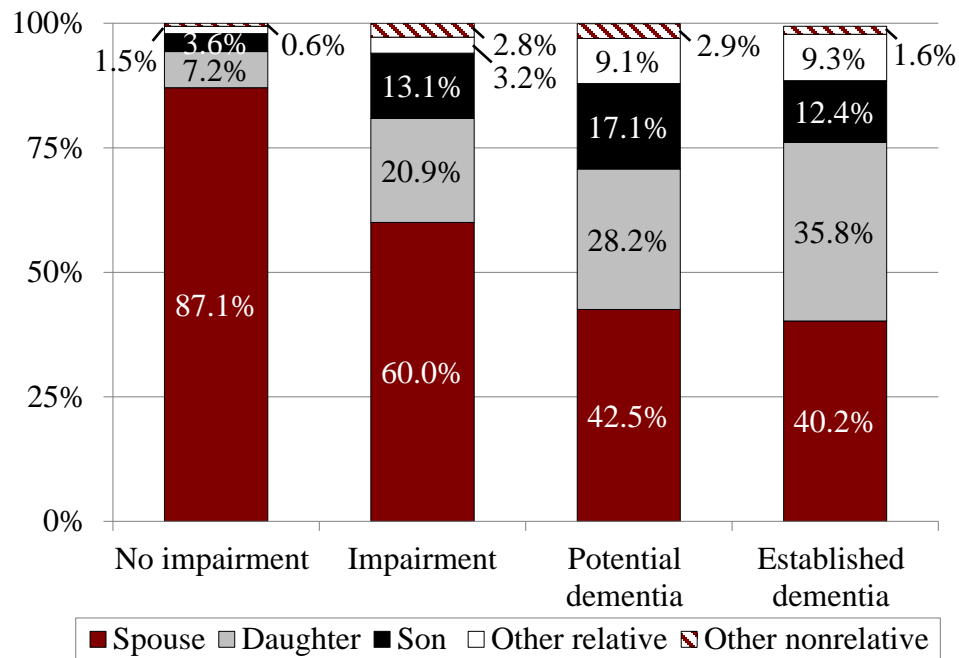
Figure 6. *Share with Established Dementia Who Have Complicated Banking Matters and Receive Help*



Note: For complicated money matters, individuals were only asked if they had help or not and not the frequency of the help.

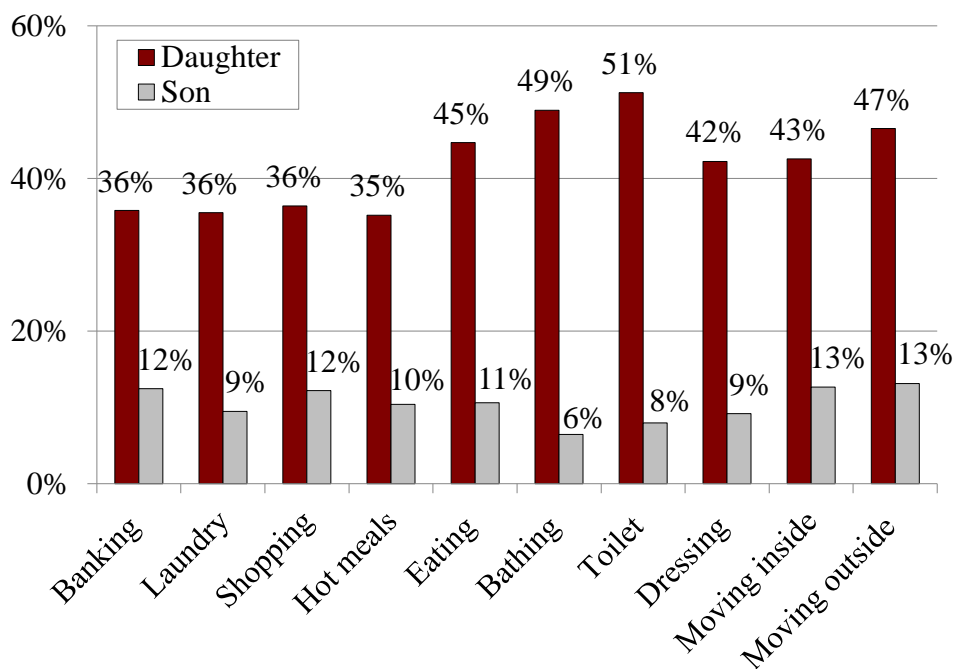
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Figure 7. *Share Helping with Simple Money Matters, by Relationship*



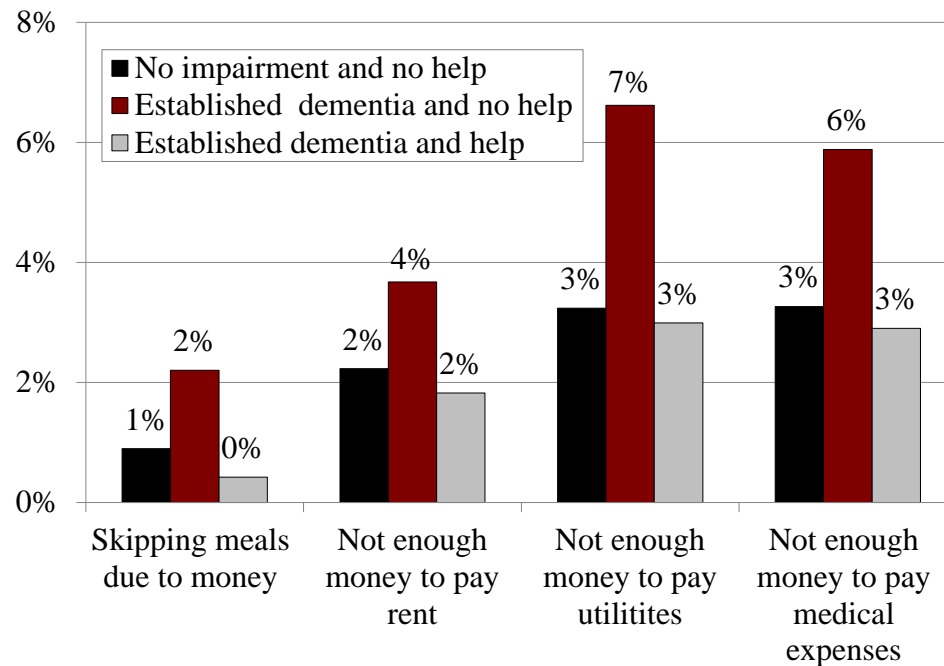
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 8. *Share of Assistance Coming from Daughters and Sons*



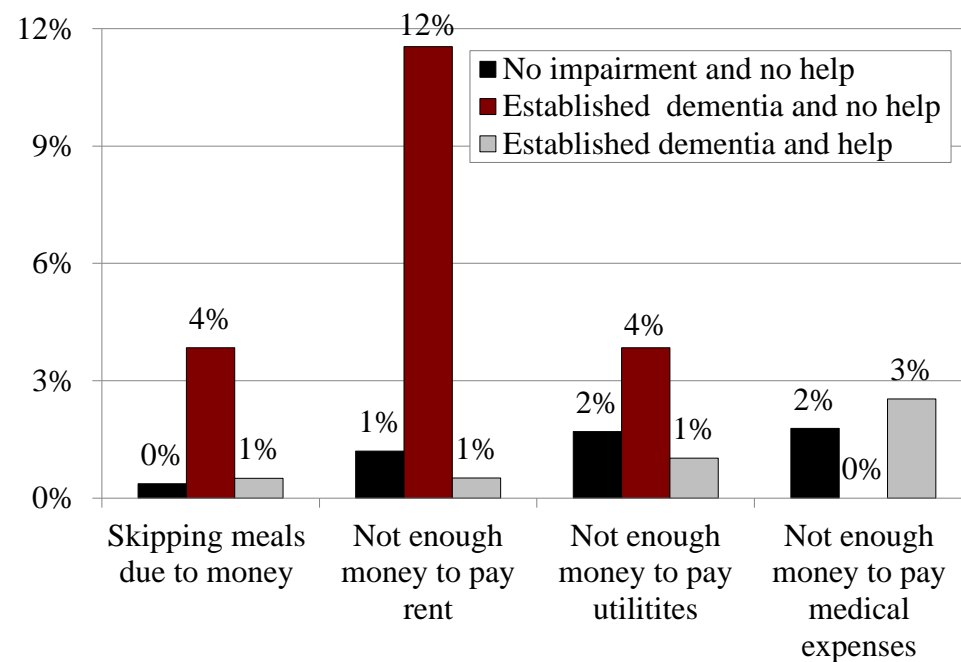
Source: Authors' calculation from the NHATS, 2011-2014.

Figure 9. *Share of People with Financial Problems and Presence of Help with Simple Money Matters, by Impairment Status*



Source: Authors' calculation from the NHATS, 2011-2014.

Figure 10. *Share of People with Financial Problems and Presence of Help with Complex Money Matters, by Impairment Status*



Source: Authors' calculation from the NHATS, 2011-2014.

Table 1. *Demographics by Cognitive Functioning*

Demographic	No impairment	Impairment	Potential dementia	Established dementia
<i>Gender</i>				
Female	58%	56%	62%	62%
<i>Race</i>				
White	73	59	59	57
Black	19	25	27	28
Hispanic	4	9	10	10
Other	2	5	3	4
<i>Marital status</i>				
Married/ living with partner	55	44	34	36
Widowed	28	40	50	48
Single	16	16	16	16
<i>Education</i>				
Less than high school	19	42	44	48
High school	36	29	32	26
Some college	14	10	7	9
College	29	17	15	15
Refused	1	1	2	3
<i>Income</i>				
<\$25,000	47	51	60	75
\$25,000-\$99,999	33	24	18	23
> \$100,000	20	25	22	3
Average number of chronic illness	2.4	2.6	2.7	2.7

Source: Authors' calculation from the NHATS, 2011-2014.

Table 2. *Marginal Effects of Assistance with Financial Management on Financial Hardship*

	Experiences financial hardship
Established dementia and financial help	-0.099** (-0.039)
Established dementia	0.071* (-0.037)
Age 90+	-0.062*** (-0.13)
White	-0.055** (-0.027)
Age 85-89	-0.05*** (-0.012)
Proxy	-0.044*** (-0.014)
Age 80-84	-0.04*** (-0.011)
Income	-0.03*** (-0.004)
Age 75-79	-0.028** (-0.011)
Lives in metropolitan area	0.016** (-0.007)
Number of chronic illnesses	0.009*** (-0.002)
Number of ADL dependency	0.008** (-0.004)
Potential dementia and financial help	0.025 (-0.022)
Financial help	0.009 (-0.007)
Potential dementia	0.006 (-0.014)
Hispanic	0.006 (-0.033)
Number of IADL dependency	0.005 (-0.004)
Black	0.005 (-0.028)
Age 70-74	0.005 (-0.011)

Table 2. *Marginal Effects of Assistance with Financial Management on Financial Hardship*
(cont'd)

	Experiences financial hardship
Male	-0.004 (-0.006)
College	-0.009 (-0.006)
Coupled	-0.009 (-0.011)
Widowed	-0.011 (-0.011)
N	8,024
R-squared	0.0645

Notes: *p<0.10, ** p<0.05, ***p<.01. Robust standard errors in parentheses.
Source: Authors' calculation from the NHATS, 2011-2014.

Table 3. *Marginal Effects of Assistance with Financial Management on Anxiety*

	Has anxiety
Established dementia	0.133*** (-0.036)
Established dementia and financial help	-0.08** (-0.039)
Potential dementia	0.063*** (-0.017)
Age 90+	-0.061*** (-0.014)
Black	-0.039* (-0.022)
College	-0.035*** (-0.007)
Number of IADL dependency	0.032*** (-0.004)
Age 85-90	-0.028** (-0.012)
Number of ADL dependency	0.024*** (-0.004)
Number of chronic illnesses	0.024*** (-0.002)
Age 80-84	-0.021** (-0.01)
Male	-0.02*** (-0.007)
Income	-0.016*** (-0.004)
Age 75-79	-0.016* (-0.01)
Financial help	-0.015** (-0.007)
Age 70-74	-0.015* (-0.009)
Hispanic	0.022 (-0.026)
Lives in Metropolitan area	0.001 (-0.008)
Proxy	0.001 (-0.019)

Table 3. *Marginal Effects of Assistance with Financial Management on Anxiety* (cont'd)

	Has anxiety
Coupled	-0.001 (-0.01)
Widowed	-0.01 (-0.011)
Potential dementia and financial help	-0.011 (-0.023)
White	-0.021 (-0.021)
N	14,916
R-squared	0.086

Notes: *p<0.10, ** p<0.05, ***p<.01. Robust standard errors in parentheses.
Source: Authors' calculation from the NHATS, 2011-2014.

Appendix

Table A1. *Specification of Demographic Variables*

Variable	Specification
Race	White, Black, Hispanic, Other (Asian, American Indian, Native Hawaiian)
Marital status	Married/living with a partner, widowed, single
Education	Less than high school, high school, some college, college
Age	65-69, 70-74, 75-79, 80-84, 85-89, 90+
Income ²⁷	Less than \$25,000, \$25,000-\$9,999, and more than \$100,000
Anxiety	Response categories for the two questions included: not at all, several days, more than half the days, and nearly every day. Scores were summed for each measure (0=not at all; 1=several days; 2=more than half the days; 3=nearly every day). A score of three or greater signified anxiety
Activities for Daily Living Index	the sum of assistance needed for bathing/showering, dressing, going to the toilet, basic mobility inside and outside, and eating
Instrumental activities for Daily Living Index	the sum of assistance needed for shopping for groceries, cooking hot meals, laundry, and managing finances
Multi-morbidity Index	Number of chronic conditions and diseases diagnosed by doctor (heart attack, heart disease, high blood pressure, arthritis, osteoporosis, diabetes, lung disease, stroke, or cancer)
Visit friends	Whether or not respondent had visited family or friends in last month
Attend religious service	Whether or not respondent had attended religious service in last month
Other people in household	If there are more people in household beside respondent and spouse
Has daughter or son	Binary variables of whether respondent has son or daughter
Sense of Community Index	Sum of scores (1-3) of how well people know each other, people are willing to help in community, and if sample respondent trusts people in their community. Final index is 3-9 with higher scores indicating greater sense of community.

²⁷ Income is the log of respondent's reported total income and imputed values of total income (Montaquila et al. 2012).

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