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## Predictors of the Importance of Everyday Preferences for Older Adults with Cognitive Impairment

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### Abstract

**Objectives:** Among older people with cognitive impairment and mild dementia, relatively little is known about the factors that predict preferences for everyday living activities and experiences and that influence the relative importance of those activities and experiences.

**Design:** Cross-sectional study.

**Setting:** Participants were recruited from the Massachusetts Alzheimer's Disease Research Center (MADRC) Clinical Core longitudinal cohort.

**Participants:** The sample included 62 community-dwelling older adults with cognitive impairment (Clinical Dementia Rating global score = 0.5).

**Measurements:** We used the Preferences for Everyday Living Inventory (PELI) to assess preferences for activities and lifestyle experiences among persons with cognitive impairment. Within-subjects analysis of variance was used to test for significant differences in the mean ratings of importance for four domains of the PELI (“autonomous choice,” “social engagement,” “personal growth,” and “keeping a routine”). Multiple regression models were used to relate predictors, including neuropsychiatric symptoms, to importance ratings for each domain.

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Conflict of Interest  
None.

**Results:** Significant differences were noted in the mean importance ratings of the preferences domains: “social engagement” preferences were rated as most important, followed by “autonomous choice,” “personal growth,” and “keeping a routine.” For the “social engagement” preferences domain, female sex was significantly associated with higher importance of “social engagement,” while depressive symptoms (Geriatric Depression Scale-15 scores) were significantly associated with lower importance.

**Conclusions—**This study adds novel insight into the everyday preferences of community-dwelling older adults with cognitive impairment and highlights the impact of a number of factors, particularly level of depression, on how important various everyday experiences are perceived.

### Keywords

community dwelling; neuropsychiatric symptoms; everyday experiences

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### Introduction

Although people with dementia have an increased interface with the healthcare system, through more frequent hospital admissions and emergency room visits relative to older adults without dementia, their daily lives and preferences are not defined by their healthcare experiences. This is particularly the case for those older adults with milder degrees of cognitive impairment or early-stage dementia (“2020 Alzheimer’s disease facts and figures.”, 2020). Even within institutional and long-term care settings, there has been a push toward incorporating individual psychosocial preferences in the everyday lives of residents, with the goal of optimizing person-centered care (Van Haitsma *et al.*, 2013). For instance, previous work has explored preferences and experiences related to diet (Hanssen and Kuven, 2016; Milte *et al.*, 2017), music (Garrido *et al.*, 2018; Thomas *et al.*, 2017), and sexual activity (Syme *et al.*, 2020; Wilkins, 2015) for older adults with cognitive impairment living in the nursing home setting.

Outside of institutional settings, studies of preferences for older adults with cognitive impairment have generally focused on aspects of care such as home support services (Chester *et al.*, 2018; Fæø *et al.*, 2020), advance care planning and end-of-life care (Geshell *et al.*, 2019; Harrison Denning *et al.*, 2016; Pettigrew *et al.*, 2019), diagnostic disclosures (van den Dungen *et al.*, 2014), and transitions to institutional living environments (Garvelink *et al.*, 2019). Prior work has addressed everyday preferences and experiences of community-dwelling older adults without cognitive impairment (Van Haitsma *et al.*, 2013). There has been limited investigation to date, however, of the everyday preferences of older adults with cognitive impairment and mild dementia, outside of general analyses of accuracy of proxy assessments (Carpenter *et al.*, 2007; Wilkins *et al.*, 2020). In recent work using the Preferences for Everyday Living Inventory (PELI) in a cohort of older adults with cognitive impairment, we found significant participant-care partner discrepancy in assessment of the importance of “social engagement” preferences (e.g., regular contact with family, meeting new people, volunteering) (Wilkins *et al.*, 2020).

There remains, nevertheless, a paucity of information about the relative importance of various everyday preferences for community-dwelling older adults with cognitive

impairment and the factors driving greater importance of different preferences. The current study will: 1) expand on the characterization of the everyday values and preferences of community-dwelling persons with cognitive impairment; 2) address cognitive impairment severity, demographic factors, and neuropsychiatric symptom burden as potential predictors of the importance of various everyday preferences for older adults with cognitive impairment.

## Methods

### Study Sample.

The sample included 62 community-dwelling persons with cognitive impairment (Clinical Dementia Rating (CDR) global score  $\geq 0.5$ ). Participants living in long-term care (assisted living facility or skilled nursing facility) were not included in this study. Participants were recruited from the Massachusetts Alzheimer's Disease Research Center (MADRC) Clinical Core longitudinal cohort; the recruitment scheme was described previously (Wilkins *et al.*, 2020). Briefly, all cohort participants with CDR global score  $\geq 0.5$  (i.e., persons with either mild cognitive impairment (MCI) or physician-determined clinically meaningful cognitive impairment without meeting formal MCI criteria) who presented to the MADRC with a care partner over a 13-month period from 2017–2018 were invited to participate in the current study; those who agreed to participate were enrolled.

There was approximately 67% enrollment among cohort participants who were approached for the study. Reasons for non-enrollment included refusal to participate, residence in long-term care, and cognitive impairment too severe to complete the study measures. Some participants did not have enough time to complete study measures. For example, participants sometimes arrive late to their appointment times due to the heavy traffic to/from the Boston location of the ADRC; thus, for reasons unrelated to psychosocial activities outside the study, there was insufficient time to complete the study measures, as the priority was completion of the required Uniform Data Set (see below). Participants provided written informed consent, and the Partners HealthCare Institutional Review Board reviewed and approved this study.

### Measures – Predictors/Covariates.

MADRC cohort participants and their care partners complete annual evaluations that follow the Alzheimer's Disease Centers Uniform Data Set (UDS) protocol (Weintraub *et al.*, 2009). Briefly, the evaluation features a standard battery of cognitive assessments (e.g., in memory, attention, executive function, fluency, etc.), ascertainment of demographic information, the CDR (Morris, 1993), behavioral and symptom measures (e.g., Neuropsychiatric Inventory brief Questionnaire [NPI-Q] (Kaufer *et al.*, 2000) and 15-item Geriatric Depression Scale [GDS-15] (Yesavage and Sheikh, 1986)), and general cognitive testing (e.g., Montreal Cognitive Assessment [MoCA] (Nasreddine *et al.*, 2005)), as well as a medical history and neurological examination.

## Measures – Dependent Variables/Preferences Assessment.

Persons with cognitive impairment completed the PELI, which is a validated preferences assessment tool for older adults with current preferences rated on a 4-point Likert scale ranging from 1 (most important) to 4 (not at all important) (Van Haitsma *et al.*, 2013). PELI data from participants were collected in a cross-sectional fashion and no longitudinal data were included in the analyses. Our previous work used exploratory factor analysis to derive potential latent sub-scales embedded within the 55-item PELI, and identified four factors, which were labeled: “autonomous choice” (involving 14 items), “social engagement” (15 items), “personal growth” (14 items), and “keeping a routine” (6 items) (see Supplementary Material, Table S1 for the items in each sub-scale) (Wilkins *et al.*, 2020). For this analysis, our assumption is that the numeric scales across these four domains are conceptually equivalent, i.e., a given numeric score on one domain measures the same strength of preference for that domain as the same numeric score for the other domains. To account for missing data and differences in the number of items across the domains, a mean domain score was calculated for each participant per domain; this score was calculated as the average of the non-missing importance ratings of only those PELI items contributing to that respective domain. Missing preference data was only 1.3% of the total items that could have been completed (40/3185).

## Statistical Analyses.

Within-subjects analysis of variance (ANOVA) was used to test for significant differences in the mean domain scores for the four domains of the PELI, as this method accounts for the correlation between domain scores (pairwise Pearson correlations among domains, degrees of freedom,  $df = 60$ , ranged from  $r = 0.28$  to  $0.54$ ,  $p = 0.03$  to  $< 0.0001$ ). Tukey-Kramer adjusted post hoc tests were used to assess significance between pairs of domains, following any significant main effect of the domain. Because of the scaling of the PELI, lower scores denote assignment of higher importance and higher scores denote assignment of lower importance.

To identify predictors of importance ratings for each domain of the PELI, multivariable-adjusted general linear models (GLM) were used. The dependent measure was the mean domain score for the various PELI domains. Model predictors were CDR global score, total NPI-Q score, GDS-15 score, as well as participant age (years), sex, years of education, marital status, and race. Given low counts for marital status categories besides married/domestic partner, marital status was collapsed to two categories: 1) “Married/Domestic Partner” and 2) “Widowed,” “Divorced,” “Separated,” or “Never Married.” Similarly, given low counts for race other than White, race was collapsed to two categories: 1) “White” and 2) “Black or African American,” “American Indian or Alaska Native,” or “Asian.” To control for type I error, we corrected the omnibus model  $p$  corresponding to the four dependent variable models with the stepdown Šidák correction. For the models that remained significant after this correction, further investigation of the significance of the individual predictors in the models was pursued.

MoCA score was not included as a predictor in the models due to significant correlations with total NPI-Q and CDR global score (pairwise Pearson correlations,  $df = 56$ ,  $r = -0.42$

and  $-0.54$ ,  $p = 0.0015$ ). For similar reasons of avoiding multi-collinearity, CDR global score and CDR sum-of-boxes (CDR-SB) could not both be included in the model; CDR global score was used instead of the CDR-SB because the models including CDR global score had higher  $R$ -square values. Graphical analyses of residuals from these GLMs were conducted to confirm assumptions of normality and homoscedasticity were reasonably met. All statistical analyses were performed using SAS Version 9.4 (SAS, Cary, NC, USA).

## Results

Participant characteristics are shown in Table 1. The cohort was just over half male (57%) and predominately white (89%), highly educated (average years of education was 16.5), and married/in a domestic partnership (76%). Approximately 21% had dementia (77% with an amnesic syndrome including Alzheimer disease), 36% had MCI, and 44% fell into the ADRC program's "cognitively impaired, not MCI" category (i.e., CDR global score = 0.5 but without MCI criteria-level evidence of objective deficits on neuropsychological testing) (Besser *et al.*, 2018). Regarding cognitive assessment variables, 82% of participants had CDR global score of 0.5, mean CDR-SB was 2.4, and mean MoCA was 23.4 points.

The preferences domain that was ranked as most important among participants was "social engagement," followed by "autonomous choice," "personal growth," and "keeping a routine" respectively (Table 2). There were significant differences in mean domain scores of importance by within-subjects ANOVA ( $F(3,61) = 10.84$ ,  $p < 0.0001$ ). Post hoc testing (Tukey-Kramer) revealed statistically significant ( $p < 0.05$ ) differences between all pairwise domain comparisons, except for the comparisons of "autonomous choice" with "personal growth" and of "personal growth" with "keeping a routine" (Table 2 and Supplementary Material, Figure S1). We conducted an additional analysis that further included a subject-level measure of severity of cognitive impairment (CDR global score) as a covariate interacting with domain. The interaction was not significant, indicating that there was no evidence that relative domain preferences were related to variation in severity of cognitive impairment within the range studied here (data not shown).

Multiple regression was then used to identify predictors of importance ratings separately for each of the four domains of the PELI. The model for "social engagement" ( $R^2 = 0.43$ ;  $F(8,44) = 4.07$ , stepdown Šidák corrected  $p = 0.0044$ ) showed a significant effect of the set of predictor variables as a whole. The models for "autonomous choice" ( $R^2 = 0.20$ ;  $F(8,44) = 1.33$ , corrected  $p = 0.44$ ), "personal growth" ( $R^2 = 0.28$ ;  $F(8,44) = 2.14$ , corrected  $p = 0.15$ ), and "keeping a routine" ( $R^2 = 0.09$ ;  $F(8,44) = 0.57$ , corrected  $p = 0.80$ ) were not significant. For the "social engagement" preferences domain, female sex was significantly associated with higher importance ( $B = -0.50$ ,  $p < 0.0001$ ), while depressive symptoms (i.e., higher GDS-15 score) were significantly associated with lower importance ratings ( $B = 0.04$ ,  $p = 0.042$ ) (Table 3). Effects size as determined by partial eta-square (i.e., the variance in the importance rating uniquely explained by the predictor, adjusting both the dependent variable and predictor) was large for participant sex (0.31) and moderate for depressive symptoms (0.09) (Table 3). Residuals from all significant models above conformed to an assumption of normality.

## Discussion

This study offers a novel window into the everyday experiences and preferences of community-dwelling older adults with cognitive impairment and mild dementia. In this sample “social engagement” preferences (e.g., regular contact with family, meeting new people, volunteering) were rated as significantly more important than preferences for other domains of everyday living (“autonomous choice,” “personal growth,” and “keeping a routine.”) Of note, although “social engagement” preferences emerged as particularly important for people with cognitive impairment, we found in prior work that proxy ratings completed by care partners tended to significantly *underestimate* the importance of “social engagement” preferences for people with cognitive impairment (Wilkins *et al.*, 2020).

Regarding predictors of the domain of “social engagement,” female sex and depressive symptoms were significantly associated with importance ratings. “Social engagement” activities were rated with significantly higher importance for women than men. Indeed, in prior work we found that male care partners significantly underestimated the importance of “social engagement” preferences for people with cognitive impairment relative to the proxy ratings of female care partners (Wilkins *et al.*, 2020). Other work looking at human values found that older adult women tended to score more highly than men on supra-personal values (e.g., beauty, knowledge, maturity) and existence values (e.g., health, stability, survival) (Vilar *et al.*, 2020). Thus, one speculative explanation for our finding is that such sex differences in human values may be reflected in the “social engagement” preferences domain in our study population.

With respect to depression, higher depressive symptoms were significantly associated with lower importance ratings of “social engagement.” We are unable to infer, however, either causality or directionality of this association with a cross-sectional design. It may be that the anhedonic, anergic, and amotivational features of depression lead to a lower emphasis on social engagement; alternatively, it may be that decreased social engagement leads to increased depressive symptoms. Regarding the latter possibility, a previous prospective cohort study showed that increasing social engagement for older adults led to decreased depressive symptoms, particularly for women (Hajek *et al.*, 2017). Thus, placed in the context of prior work, our results suggest that “social engagement” could have implications for monitoring and/or treatment of depression in the context of cognitive impairment.

Strengths of this study included comprehensive assessment of everyday preferences in a well-characterized sample and use of gold-standard cognitive and neurobehavioral assessments. Study limitations included a relatively small sample size, a cross-sectional design, increased type I error rate given the exploratory analyses, limited racial diversity, and an average higher level of education compared to similarly aged participants nationally. Another potential limitation was the lack of a cognitively normal control group for comparison, to assess whether these findings are specifically relevant to living with cognitive impairment versus aging in general. Results from the additional analyses showing a lack of significant interaction of CDR global score with preferences domain score provided some indication that effect estimates were not influenced by severity of cognitive impairment, at least within the range of cognitive impairment studied here.

Overall, this study added to the body of literature on everyday preferences among community-dwelling older adults with cognitive impairment and mild dementia, and it identified the importance of “social engagement” as well as the influences of sex and depression on the perceived importance of “social engagement” experiences. It appears that in our sample, there is a relatively large effect size of participant sex with a more moderate effect size for depressive symptoms on the importance of “social engagement” preferences. Future work may further assess the magnitude of these estimates in a larger sample as well as the role of any thus far unmeasured predictors. Also, given the disproportionate impacts of COVID-19 and social distancing on older adults, there may be future opportunities to reconsider the importance of social engagement, as well as its predictors, for older adults with cognitive impairment in a world that is increasingly reliant on virtual and remote meeting interfaces.

## Supplementary Material

Refer to Web version on PubMed Central for supplementary material.

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## References

- 2020 Alzheimer’s disease facts and figures. (2020). *Alzheimer’s & Dementia*, 16, 391–460.
- Besser L, et al. (2018). Version 3 of the National Alzheimer’s Coordinating Center’s Uniform Data Set. *Alzheimer Disease and Associated Disorders*, 32, 351–358. [PubMed: 30376508]
- Carpenter BD, Kissel EC and Lee MM (2007). Preferences and life evaluations of older adults with and without dementia: reliability, stability, and proxy knowledge. *Psychology and Aging*, 22, 650–655. [PubMed: 17874963]
- Chester H, et al. (2018). People with dementia and carer preferences for home support services in early-stage dementia. *Aging & Mental Health*, 22, 270–279. [PubMed: 27849124]
- van den Dungen P, et al. (2014). Preferences regarding disclosure of a diagnosis of dementia: a systematic review. *International Psychogeriatrics*, 26, 1603–1618. [PubMed: 24933479]
- Fæø SE, Bruvik FK, Tranvåg O and Husebo BS (2020). Home-dwelling persons with dementia’s perception on care support: Qualitative study. *Nursing Ethics*, 27, 991–1002. [PubMed: 31986964]
- Garrido S, Stevens CJ, Chang E, Dunne L and Perz J (2018). Music and Dementia: Individual Differences in Response to Personalized Playlists. *Journal of Alzheimer’s Disease*, 64, 933–941.
- Garvelink MM, Groen-van de Ven L, Smits C, Franken R, Dassen-Vernooij M and Légaré F (2019). Shared Decision Making About Housing Transitions for Persons With Dementia: A Four-Case Care Network Perspective. *The Gerontologist*, 59, 822–834. [PubMed: 30007366]

- Geshell L, Kwak J and Radhakrishnan K (2019). Perspectives and Experiences of Persons With Dementia With Advance Care Planning: An Integrative Literature Review. *Journal of Geriatric Psychiatry and Neurology*, 32, 231–245. [PubMed: 31189355]
- Van Haitsma K, et al. (2013). The preferences for everyday living inventory: scale development and description of psychosocial preferences responses in community-dwelling elders. *The Gerontologist*, 53, 582–595. [PubMed: 22936532]
- Hajek A, et al. (2017). The impact of social engagement on health-related quality of life and depressive symptoms in old age - evidence from a multicenter prospective cohort study in Germany. *Health and Quality of Life Outcomes*, 15, 140. [PubMed: 28705225]
- Hanssen I and Kuven BM (2016). Moments of joy and delight: the meaning of traditional food in dementia care. *Journal of Clinical Nursing*, 25, 866–874. [PubMed: 26752100]
- Harrison Dening K, King M, Jones L, Vickerstaff V and Sampson EL (2016). Advance Care Planning in Dementia: Do Family Carers Know the Treatment Preferences of People with Early Dementia. *PLoS One*, 11, e0159056. [PubMed: 27410259]
- Kaufert DI, et al. (2000). Validation of the NPI-Q, a brief clinical form of the Neuropsychiatric Inventory. *The Journal of Neuropsychiatry and Clinical Neurosciences*, 12, 233–239. [PubMed: 11001602]
- Milte R, Shulver W, Killington M, Bradley C, Miller M and Crotty M (2017). Struggling to maintain individuality - Describing the experience of food in nursing homes for people with dementia. *Archives of Gerontology and Geriatrics*, 72, 52–58. [PubMed: 28552702]
- Morris JC (1993). The Clinical Dementia Rating (CDR): current version and scoring rules. *Neurology*, 43, 2412–2414.
- Nasreddine ZS, et al. (2005). The Montreal Cognitive Assessment, MoCA: a brief screening tool for mild cognitive impairment. *Journal of the American Geriatrics Society*, 53, 695–699. [PubMed: 15817019]
- Pettigrew C, et al. (2019). Attitudes toward advance care planning among persons with dementia and their caregivers. *International Psychogeriatrics*, 32, 585–599. [PubMed: 31309906]
- Syme ML, Johnson PE and Fager M (2020). Person-Centered Sexual Expression: Determining Preferences of Future Nursing Home Residents. *The Gerontologist*, 60, 725–734. [PubMed: 30772898]
- Thomas KS, Baier R, Kosar C, Ogarek J, Trepman A and Mor V (2017). Individualized Music Program is Associated with Improved Outcomes for U.S. Nursing Home Residents with Dementia. *The American Journal of Geriatric Psychiatry*, 25, 931–938. [PubMed: 28483436]
- Vilar R, Liu JH and Gouveia VV (2020). Age and gender differences in human values: A 20-nation study. *Psychology and Aging*, 35, 345–356. [PubMed: 32150434]
- Weintraub S, et al. (2009). The Alzheimer's Disease Centers' Uniform Data Set (UDS): The neuropsychologic test battery. *Alzheimer Disease and Associated Disorders*, 23, 91–101. [PubMed: 19474567]
- Wilkins JM (2015). More Than Capacity: Alternatives for Sexual Decision Making for Individuals With Dementia. *The Gerontologist*, 55, 716–23. [PubMed: 26315314]
- Wilkins JM, et al. (2020). "Differences in Assessment of Everyday Preferences Between People With Cognitive Impairment and Their Care Partners: The Role of Neuropsychiatric Symptoms. *The American Journal of Geriatric Psychiatry*, 28, 1070–1078. [PubMed: 32144001]
- Yesavage JA and Sheikh JI (1986). GERIATRIC DEPRESSION SCALE (GDS): Recent Evidence and Development of a Shorter Version. *Clinical Gerontologist*, 5, 165–173.



**Table 1.**

Description of participants: demographic and clinical characteristics. All scores based on  $n = 62$ , unless otherwise noted.

<b>Age</b> (mean years ([Standard Deviation, S.D.]	78.9 (7.1)
<b>Sex (female)</b> ( $n$ [%])	27 (43.5%)
<b>Education</b> (mean years [S.D.]	16.5 (2.8) <sup>a</sup>
<b>Race</b> ( $n$ [%])	
White	55 (88.7%)
Black or African American	4 (6.5%)
Asian	2 (3.2%)
American Indian or Alaska Native	1 (1.6%)
<b>Marital Status</b> ( $n$ [%])	
Married/Domestic Partner	47 (75.8%)
Widowed	9 (14.5%)
Divorced	4 (6.5%)
Separated	1 (1.6%)
Never Married	1 (1.6%)
<b>Dementia</b> [ $n$ (%)]	<b>13 (21.0%)</b>
Amnestic (including Alzheimer's disease)	10 (76.9%)
Lewy Body	1 (7.7%)
Non-amnestic	2 (15.4%)
<b>Mild Cognitive Impairment (MCI)</b> [ $n$ (%)]	<b>22 (35.5%)</b>
Amnestic	17 (77.3%)
Non-amnestic	5 (22.7%)
<b>Cognitively impaired, not MCI</b> [ $n$ (%)]	<b>27 (43.5%)</b>
<b>Clinical Dementia Rating (CDR) Global Score</b> ( $n$ [%])	
0.5	51 (82.3%)
1	11 (17.7%)
<b>CDR Sum of Boxes Score</b> (mean ([S.D.]	2.4 (1.7)
<b>Neuropsychiatric Inventory brief Questionnaire (NPI-Q) Score</b> (mean ([S.D.]	3.3 (3.7)
<b>Montreal Cognitive Assessment (MoCA) Score</b> (mean ([S.D.]	23.4 (4.5) <sup>b</sup>
<b>Geriatric Depression Scale, 15-item (GDS-15) Score</b> (mean ([S.D.]	2.4 (3.1) <sup>c</sup>

Note. Percentages might not add up to 100% due to rounding.

<sup>a</sup>  
 $n = 60$ .

<sup>b</sup>  
 $n = 58$ .

<sup>c</sup>  
 $n = 54$ .

**Table 2.**

Results of within-subjects analysis of variance (ANOVA) comparing the mean domain scores for the four domains of the Preferences for Everyday Living Inventory (PELI).  $F(3,61) = 10.84$ ,  $p < 0.0001$ .  $N = 62$ .

Domain	Mean (S.D.)*	ANOVA: Mean difference, <i>t</i> -value, Tukey-Kramer adjusted <i>p</i> -value			
		Autonomous Choice	Social Engagement	Personal Growth	Keeping a Routine
Autonomous Choice	2.14 (0.54)	--	<i>0.23, 3.34, 0.0077</i>	-0.04, -0.61, 0.93	<i>-0.22, -3.21, 0.011</i>
Social Engagement	1.91 (0.43)		--	<i>-0.27, -3.94, 0.0012</i>	<i>-0.45, -5.60, &lt; 0.0001</i>
Personal Growth	2.18 (0.44)			--	-0.18, -2.61, 0.054
Keeping a Routine	2.36 (0.60)				--

\* Mean domain score for each domain is calculated as the average of the importance ratings of PELI items contributing to that domain. S.D. = Standard Deviation.

Note. PELI items are ranked on a 4-point Likert scale with 1 = very important, 2 = somewhat important, 3 = not very important, and 4 = not at all important.

**Table 3.**

Multiple regression of key predictors of the mean domain importance score for “social engagement” preferences of the Preferences for Everyday Living Inventory (PELI);  $N = 53$ ; degrees of freedom = 8, 44.

Predictor	Social Engagement			
	B <sup>a</sup> (SE) [95% CI]	Mean <sup>b</sup>	p-value	Partial Eta-Square [95% CI]
Participant Age (years)	0.01 (0.01) [−0.00 to 0.03]		0.070	0.07 [0.00 to 0.22]
Participant Education (years)	−0.04 (0.02) [−0.08 to 0.00]		0.078	0.04 [0.00 to 0.21]
CDR Global Score			0.87	0.00 [0.00 to 0.06]
	0.5	0 (Reference)	1.93	
	1	0.02 (0.15) [−0.27 to 0.32]	1.96	
NPI-Q Score (points)	−0.02 (0.02) [−0.05 to 0.01]		0.17	0.04 [0.00 to 0.18]
GDS-15 Score (points)	0.04 (0.02) [0.00 to 0.08]		0.042	0.09 [0.00 to 0.24]
Marital Status			0.058	0.05 [0.00 to 0.23]
	Married/Domestic Partner	0 (Reference)	2.07	
	Widowed; Divorced; Separated; Never Married	−0.25 (0.13) [−0.51 to 0.01]	1.82	
Participant Sex			<0.0001	0.31 [0.08 to 0.45]
	Male	0 (Reference)	2.20	
	Female	−0.50 (0.11) [−0.73 to −0.27]	1.70	
Race			0.20	0.04 [0.00 to 0.17]
	White	0 (Reference)	1.82	
	Black or African American; American Indian or Alaska Native; Asian	0.24 (0.19) [−0.13 to 0.62]	2.07	

<sup>a</sup>B is the unstandardized partial regression coefficient from the model.

<sup>b</sup> Adjusted means of the domain importance score for each of the categories of the given categorical predictor. Because of the scaling of the PELI, lower scores denote assignment of higher importance and higher scores denote assignment of lower importance.