

Supplemental Table 1. Grandchild Caregiving on Word Recall (delayed and immediate, standardized), only

	Model 1	
	All Grandparents	
	B	95% CI
Intercept	0.14	(-0.14, 0.42)
<i>Grandchild caregiving</i>		
Cares for grandchildren	0.20***	(0.14, 0.27)
Controls		
<i>Health Conditions</i>		
Self-rated health	0.20***	(0.16, 0.25)
Has at least one ADL limitation	-0.27***	(-0.38, -0.16)
Depressive symptoms	-0.03***	(-0.05, -0.01)
Comorbidities	0.04	(-0.01, 0.08)
Missing	0.01	(-0.09, 0.10)
<i>Family Characteristics</i>		
Number of children	0.02*	(-0.0002, 0.03)
Number of children who have died	-0.04*	(-0.08, -0.01)
Number of grandchildren under age 16	0.01	(-0.04, 0.02)
Doesn't know how many grandchildren under age 16	0.15**	(0.05, 0.26)
<i>Demographics</i>		
Female	0.04	(-0.03, -0.11)
Age	-0.01***	(-0.02, -0.01)
Marital status (Ref: Married or living with partner)		
Never married	0.04	(-0.15, 0.23)
Separated or divorced	-0.05	(-0.15, 0.05)
Widowed	-0.10**	(-0.18, -0.03)
<i>Socioeconomic Indicators</i>		
Education (Ref: No formal)		
Primary	0.21***	(0.14, 0.28)
Secondary	0.52***	(0.42, 0.62)
Employment status (Ref: Not working)		
Employed	-0.01	(-0.12, 0.09)
Home manager	-0.06	(-0.16, 0.03)
Retired	-0.10*	(-0.18, -0.02)
Individual earnings and transfers	-0.05*	(-0.09, -0.01)
<i>Household and Caregiving Characteristics</i>		
Household wealth index	0.04***	(0.02, 0.06)
Provides care to adult in household	-0.15*	(-0.30, -0.001)
Number of people in household	-0.03	(-0.07, 0.01)
Interview month	0.03***	(0.02, 0.04)
R^2	0.23	
F	43.01***	
N	3,668	

two-tailed tests, + p<.10 , * p<.05, **P<.01, *** p<.001

Supplemental Table 2. OLS Models Predicting Cognitive Function Z-Score with Grandchild Caregiving – Half of the Year vs. Less Intensive

	Model 1		Model 2	
	B	95% CI	B	95% CI
Intercept	0.50***	(0.21, 0.80)	0.56***	(0.28, 0.83)
<i>Grandchild caregiving</i>				
Does not care for grandchildren	-0.18**	(-0.30, -0.05)	-0.23***	(-0.30,-0.16)
Cares for grandchildren less than half of the year	REF		-0.05	(-0.19, 0.08)
Cares for grandchildren at least half of the year	-0.05	(-0.08, 0.19)	REF	
Controls				
<i>Health Conditions</i>				
Self-rated health	0.18***	(0.14, 0.23)	0.18***	(0.14, 0.23)
Has at least one ADL limitation	-0.29***	(-0.39, -0.18)	-0.29***	(-0.39, -0.18)
Depressive symptoms	-0.03***	(-0.05, -0.02)	-0.03***	(-0.05, -0.02)
Comorbidities	0.05*	(0.01, 0.09)	0.05*	(0.01, 0.09)
Missing	-0.01	(-0.10, 0.09)	-0.01	(-0.10, 0.09)
<i>Family Characteristics</i>				
Number of children	0.03**	(0.01, 0.04)	0.03**	(0.01, 0.04)
Number of children who have died	-0.05**	(-0.09, -0.01)	-0.05**	(-0.09, -0.01)
Number of grandchildren under age 16	0.01	(-0.003, 0.02)	0.01	(-0.003, 0.02)
Doesn't know how many grandchildren under age 16	0.15**	(0.05, 0.25)	0.15**	(0.05, 0.25)
<i>Demographics</i>				
Female	-0.07*	(-0.14, -0.01)	-0.07*	(-0.14, -0.01)
Age	-0.02***	(-0.02, -0.01)	-0.02***	(-0.02, -0.01)
Marital status (Ref: Married or living with partner)				
Never married	0.06	(-0.12, 0.24)	0.06	(-0.12, 0.24)
Separated or divorced	-0.04	(-0.14, 0.05)	-0.04	(-0.14, 0.05)
Widowed	-0.14***	(-0.21, -0.07)	-0.14***	(-0.21, -0.07)
<i>Socioeconomic Indicators</i>				
Education (Ref: No formal)				
Primary	0.37***	(0.30, 0.43)	0.37***	(0.30, 0.43)
Secondary	0.63***	(0.53, 0.72)	0.63***	(0.53, 0.72)
Employment status (Ref: Not working)				
Employed	-0.02	(-0.12, 0.07)	-0.02	(-0.12, 0.07)
Home manager	-0.10*	(-0.20, -0.01)	-0.10*	(-0.20, -0.01)
Retired	-0.08*	(-0.15, 0.003)	-0.08*	(-0.15, 0.003)
Individual earnings and transfers	-0.03	(-0.07, 0.01)	-0.03	(-0.07, 0.01)
<i>Household and Caregiving Characteristics</i>				
Household wealth index	0.05***	(0.03, 0.07)	0.05***	(0.03, 0.07)
Provides care to adult in household	-0.08	(-0.23, 0.06)	-0.08	(-0.23, 0.06)
Number of people in household	-0.03+	(-0.07, 0.003)	-0.03+	(-0.07, 0.003)
Interview month	0.02***	(0.01, 0.03)	0.02***	(0.01, 0.03)
R^2	0.31		0.31	
F	61.51***		61.51***	
N	3,649		3,649	

two-tailed tests, + p<.10, * p<.05, **P<.01, *** p<.001
N=3,649; 19 missing on variable indicating weeks of care; 23% of grandparents provided care for at least three-quarters of the year, and 6% for less than three-quarters

Supplemental Table 3. OLS Models Predicting Cognitive Function Z-Score with Grandchild Caregiving – Three-quarters of the Year vs. Less Intensive

	Model 1		Model 2	
	B	95% CI	B	95% CI
Intercept	0.49***	(0.20, 0.78)	0.56***	(0.29, 0.84)
<i>Grandchild caregiving</i>				
Does not care for grandchildren	-0.16**	(-0.28, -0.05)	-0.24***	(-0.30,-0.17)
Cares for grandchildren less than ¾ of the year		REF	-0.07	(-0.20, 0.05)
Cares for grandchildren at least ¾ of the year	-0.07	(-0.05, 0.20)		REF
Controls				
<i>Health Conditions</i>				
Self-rated health	0.18***	(0.14, 0.23)	0.18***	(0.14, 0.23)
Has at least one ADL limitation	-0.29***	(-0.39, -0.18)	-0.29***	(-0.39, -0.18)
Depressive symptoms	-0.03***	(-0.05, -0.02)	-0.03***	(-0.05, -0.02)
Comorbidities	0.05*	(0.01, 0.09)	0.05*	(0.01, 0.09)
Missing	-0.01+	(-0.10, 0.09)	-0.01 ⁰⁴	(-0.10, 0.09)
<i>Family Characteristics</i>				
Number of children	0.03**	(0.01, 0.04)	0.03**	(0.01, 0.04)
Number of children who have died	-0.05**	(-0.09, -0.01)	-0.05**	(-0.09, -0.01)
Number of grandchildren under age 16	0.01	(-0.003, 0.02)	0.01	(-0.003, 0.02)
Doesn't know how many grandchildren under age 16	0.15**	(0.05, 0.25)	0.15**	(0.05, 0.25)
<i>Demographics</i>				
Female	-0.07*	(-0.14, -0.01)	-0.07*	(-0.14, -0.01)
Age	-0.02***	(-0.02, -0.01)	-0.02***	(-0.02, -0.01)
Marital status (Ref: Married or living with partner)				
Never married	0.06	(-0.12, 0.24)	0.06	(-0.12, 0.24)
Separated or divorced	-0.04	(-0.14, 0.05)	-0.04	(-0.14, 0.05)
Widowed	-0.14***	(-0.21, -0.07)	-0.14***	(-0.21, -0.07)
<i>Socioeconomic Indicators</i>				
Education (Ref: No formal)				
Primary	0.37***	(0.30, 0.43)	0.37***	(0.30, 0.43)
Secondary	0.63***	(0.53, 0.72)	0.63***	(0.53, 0.72)
Employment status (Ref: Not working)				
Employed	-0.02	(-0.12, 0.07)	-0.02	(-0.12, 0.07)
Home manager	-0.10*	(-0.20, -0.01)	-0.10*	(-0.19, -0.01)
Retired	-0.08*	(-0.15, -0.003)	-0.08*	(-0.15, -0.003)
Individual earnings and transfers	-0.03	(-0.07, 0.01)	-0.03	(-0.07, 0.01)
<i>Household and Caregiving Characteristics</i>				
Household wealth index	0.05***	(0.03, 0.07)	0.05***	(0.03, 0.07)
Provides care to adult in household	-0.08	(-0.23, 0.06)	-0.09	(-0.23, 0.06)
Number of people in household	-0.03+	(-0.07, 0.002)	-0.03+	(-0.07, 0.004)
Interview month	0.02***	(0.01, 0.03)	0.02***	(0.01, 0.03)
R^2		0.31		0.31
F		61.55***		61.55***
N		3,649		3,649

two-tailed tests, + p<.10 , * p<.05, **P<.01, *** p<.001
N=3,649; 19 missing on variable indicating weeks of care

Supplemental Table 4. OLS Models Predicting Cognitive Function Z-Score with Grandchild Caregiving – Sensitivity to Age

	Model 1	
	B	95% CI
Intercept	0.51**	(0.20, 0.83)
<i>Grandchild caregiving</i>		
Cares for grandchildren	0.24***	(0.15, 0.32)
X Aged 65+	-0.05	(-0.17, 0.07)
Aged 65+	-0.212*	(-0.29, 0.02)
Controls		
<i>Health Conditions</i>		
Self-rated health	0.18***	(0.14, 0.23)
Has at least one ADL limitation	-0.29***	(-0.39, -0.18)
Depressive symptoms	-0.03***	(-0.05, -0.01)
Comorbidities	0.05*	(0.01, 0.09)
Missing	-0.01	(-0.10, 0.09)
<i>Family Characteristics</i>		
Number of children	0.03**	(0.01, 0.04)
Number of children who have died	-0.05**	(-0.09, -0.02)
Number of grandchildren under age 16	0.01	(-0.003, 0.02)
Doesn't know how many grandchildren under age 16	0.15**	(0.05, 0.25)
<i>Demographics</i>		
Female	-0.07*	(-0.14, -0.01)
Age	-0.02***	(-0.03, -0.02)
Marital status (Ref: Married or living with partner)		
Never married	0.05	(-0.13, 0.23)
Separated or divorced	-0.04	(-0.14, 0.05)
Widowed	-0.14***	(-0.21, -0.06)
<i>Socioeconomic Indicators</i>		
Education (Ref: No formal)		
Primary	0.37***	(-0.31, 0.44)
Secondary	0.62***	(0.53, 0.72)
Employment status (Ref: Not working)		
Employed	-0.02	(-0.12, 0.08)
Home manager	-0.10*	(-0.19, -0.01)
Retired	-0.08*	(-0.16, -0.01)
Individual earnings and transfers	-0.03	(-0.07, 0.01)
<i>Household and Caregiving Characteristics</i>		
Household wealth index	0.05***	(0.03, 0.07)
Provides care to adult in household	-0.10	(-0.24, 0.05)
Number of people in household	-0.03+	(-0.07, 0.004)
Interview month	0.02***	(0.01, 0.03)
R ²	0.31	
F	59.82***	
N	3,668	

two-tailed tests, + p<.10, * p<.05, **P<.01, *** p<.001
n=1660 (45%) are aged 65+