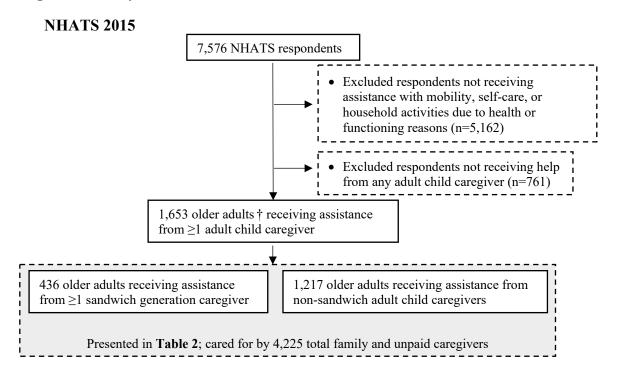
A National Profile of Sandwich Generation Caregivers Providing Care to Both Older Adults and Children

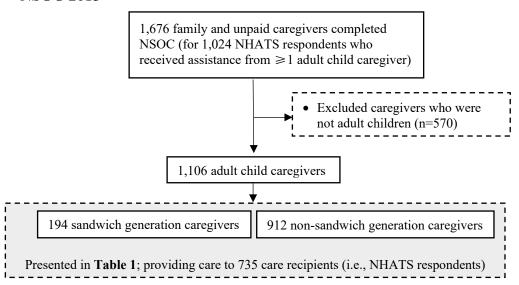
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Figure S1. Study Cohorts



NSOC 2015



Notes: NHATS = National Health and Aging Trends Study; NSOC = National Study of Caregiving.

† Due to the sampling strategy and nonresponse among those family and unpaid caregivers eligible to participate in NSOC, the caregivers and care recipients included in Table 1 (which required participation in NSOC <u>and NHATS</u>) are a subset of those included in Table 2 (which required participation in NHATS alone).

Table S1. Characteristics of Adult Child, Child-in-law, and Grandchild Caregivers With

and Without Minor Children in a Nationally Representative Sample, 2015

	nally Representative Sample, 2015 Adult Child, Child-in-law, and Grandchild Caregivers (N=1,403)					
	Sandwich generation Non-sandwic generation			:		
	Respondents, N (weighted %)	National estimate, millions	Respondents, N (weighted %)	National estimate, millions	value	
Overall	284 (26.7)	3.5	1,119 (73.3)	9.7	_	
Demographics						
Female, No. (%)	192 (62.8)	2.2	770 (63.2)	6.1	0.93	
Age, years (SD)	43.8 (7.7)	—	53.9 (13.7)	—	< 0.001	
<45, No. (%)	126 (50.1)	1.8	125 (17.3)	1.7	< 0.001	
45-64, No. (%)	154 (49.1)	1.7	739 (66.0)	6.4		
65+, No. (%)	—†	— †	255 (16.7)	1.6		
Race/ethnicity, No. (%)						
Non-Hispanic white	143 (59.6)	2.1	667 (67.9)	6.6	0.33	
Non-Hispanic black	97 (14.6)	0.5	319 (12.2)	1.2		
Hispanic	26 (14.3)	0.5	63 (11.0)	1.1		
Other	18 (11.6)	0.4	70 (9.0)	0.9		
Socioeconomic status						
Married, No. (%)	170 (67.5)	2.4	601 (57.0)	5.6	0.02	
Some college or above, No. (%)	203 (71.3)	2.5	743 (67.0)	6.5	0.45	
Family income, \$, mean (SD)	\$71,815 (\$54,534)	—	\$62,889 (\$75,497)	—	0.07	
Medicaid enrollment, No. (%)	63 (22.6)	0.8	127 (12.5)	1.2	0.003	
General health status, No. (%)		•				
Very good or excellent	159 (61.7)	2.2	615 (55.5)	5.4	0.10	
Good	75 (24.0)	0.8	275 (22.2)	2.1		
Poor or fair	50 (14.3)	0.5	229 (22.2)	2.2		
Caregiving characteristics						
Co-residence with care recipient, No. (%)	98 (33.4)	1.2	392 (29.3)	2.8	0.45	
Care recipients living in the community, No. (%)	265 (92.1)	3.3	914 (78.6)	7.6	< 0.001	
Duration of caregiving, years (SD)	5.9 (5.4)	<u> </u>	7.6 (8.9)	—	0.01	
Hours of care provided in the last month, n (SD)	71.9 (101.3)	—	67.4 (115.1)	—	0.60	
Proportion of total help hours provided, % (SD)	36.1 (30.5)		41.5 (37.0)	—	0.09	
Sole caregiver, No. (%)	27 (8.6)	0.3	148 (11.5)	1.1	0.31	
Primary caregiver, No. (%)	114 (35.3)	1.3	588 (44.0)	4.3	0.051	
Functional disability-related activities helped:				•		
Mobility (0-3), n (SD)	0.5 (0.7)		0.5 (0.8)		0.70	
Self-care activities (0-4), n (SD)	0.3 (0.7)	_	0.4 (0.9)	—	0.23	
Household activities (0-5), n (SD)	1.5 (1.3)	<u> </u>	1.6 (1.6)		0.54	

Household activities (0-5), n (SD) 1.5 (1.3) — 1.6 (1.6) — 0.5 Notes: Authors' analysis of data from the 2015 National Study of Caregiving (NSOC) for a cohort of adult child, child-in-law, and grandchild caregivers. Adjusted Wald tests were performed to compare continuous characteristics and Rao-Scott chi-square tests were performed to compare categorical characteristics among adult child, child-inlaw, and grandchild caregivers with and without any minor child under 18 years of age (i.e., sandwich vs. nonsandwich generation caregivers). Data were weighted using the NSOC survey analytic weights.

[†] Estimates based on too few cases (< 11) may not be reported, per NHATS.

Table S2. Characteristics of Caregiving-related Experience and Employment Participation among Adult Child, Child-in-law, and Grandchild Caregivers With and Without Minor Children in a Nationally Representative Sample, 2015

-	Adult Child, Child-in-law, and Grandchild Caregivers (N=1,403)					
	Sandwich generation		Non-sandwich generation			
	Respondents, N (weighted %)	National estimate, millions		National estimate, millions	p- value	
Overall	284 (26.7)	3.5	1,119 (73.3)	9.7	—	
Caregiving-related difficulties						
Reported financial difficulties, No. (%)						
None	203 (69.3)	2.4	921 (83.5)	8.1	< 0.001	
Some	26 (12.3)	0.4	56 (4.3)	0.4		
Substantial	55 (18.4)	0.7	142 (12.2)	1.2		
Reported emotional difficulties, No. (%)						
None	148 (52.6)	1.9	623 (54.2)	5.3	0.29	
Some	39 (11.7)	0.4	184 (15.3)	1.5		
Substantial	97 (35.7)	1.3	312 (30.5)	3.0		
Caregiver role overload						
Composite overload score (0-8), n (SD)	2.6 (2.1)	—	2.2 (2.3)	—	0.03	
Exhausted, No. (%)	83 (26.2)	0.9	215 (17.6)	1.7	0.02	
More than they can handle, No. (%)	64 (23.0)	0.8	182 (15.5)	1.5	0.02	
No time for self, No. (%)	62 (16.8)	0.6	196 (15.3)	1.5	0.61	
Care recipient's needs change frequently, No. (%)	27 (7.7)	0.3	109 (9.7)	0.9	0.40	
Caregiving-related gains						
Composite gains score (0-8), n (SD)	6.4 (1.7)	—	6.0 (2.1)	—	0.045	
More confident, No. (%)	146 (49.6)	1.8	550 (43.7)	4.2	0.19	
Deal with difficult situations, No. (%)	174 (61.2)	2.2	655 (52.3)	5.1	0.08	
Closer to care recipient, No. (%)	216 (74.9)	2.6	788 (68.1)	6.6	0.13	
Satisfaction, No. (%)	260 (89.6)	3.2	985 (86.0)	8.4	0.24	
Use of supportive services, No. (%)						
Support group participation	11 (4.2)	0.1	42 (3.2)	0.3	0.51	
Respite care	58 (15.9)	0.5	237 (18.8)	1.8	0.41	
Caregiving training	27 (8.9)	0.3	90 (6.2)	0.6	0.21	
Identify potential financial support for care recipient	66 (20.9)	0.7	164 (15.3)	1.5	0.08	
Use of ≥1 supportive services	115 (35.6)	1.2	405 (32.6)	3.2	0.47	
Employment and participation in other activities						
Work for pay, No. (%)	185 (67.6)	2.4	540 (54.9)	5.3	0.003	
Caregiving prevents from working, No. (%)	41 (13.3)	0.5	121 (10.4)	1.0	0.003	
Among those who worked:	11 (13.3)	0.5	121 (10.1)	1.0	0.20	
Missed work due to caregiving, No. (%)	40 (12.7)	0.3	189 (15.0)	0.8	0.54	
Absenteeism, % (SD)†	1.6 (5.8)		1.3 (4.5)		0.73	
Presenteeism, % (SD)‡	5.0 (13.9)	_	7.1 (19.5)		0.73	
Caregiving preventing from participation in valued activities, No. (%)§	57 (17.9)	0.6	273 (19.5)	1.9	0.21	

Notes: Authors' analysis of data from the 2015 National Study of Caregiving (NSOC) for a cohort of adult child, child-in-law, and grandchild caregivers. Adjusted Wald tests were performed to compare continuous characteristics and Rao-Scott chi-square tests were performed to compare categorical characteristics among adult child, child-in-

law, and grandchild caregivers with and without any minor child under 18 years of age (i.e., sandwich vs. non-sandwich generation caregivers). Data were weighted using the NSOC survey analytic weights.

- † Absenteeism referred to the proportion of hours of work missed because of caregiving in the last month among total hours worked typically.
- ‡ Presenteeism referred to the degree to which the caregiver reported caregiving affected productivity when at work.
- § Valued activities included visiting with friends or family, attending religious services, participating in group activities, and going out for enjoyment.

Table S3. Characteristics of Caregiving-related Experience and Employment Participation among Adult Child Caregivers With and Without Minor Children: Adjusted Analysis

	Vithout Minor Children: Adjusted Analysis Adult Child Caregivers (N=1,106)				
	Sandwich generation	Non-sandwich generation	p-		
		(95% Confidence Interval)	value		
Survey respondents, N (weighted %)	194 (24.3)	912 (75.7)	_		
National estimate, millions	2.5	7.7	—		
Caregiving-related difficulties					
Reported financial difficulties, %					
None	67.8 (59.2-76.3)	82.4 (78.9-86.0)	< 0.01		
Some	10.9 (4.9-16.9)	4.8 (3.0-6.6)	0.07		
Substantial	21.3 (14.2-28.4)	12.8 (9.6-15.9)	0.02		
Reported emotional difficulties, %					
None	44.6 (35.5-53.7)	50.9 (46.1-55.7)	0.21		
Some	12.4 (6.9-18.0)	16.6 (13.4-19.9)	0.20		
Substantial	43.0 (33.9-52.1)	32.5 (27.9-37.1)	0.03		
Caregiver role overload					
Composite overload score (0-8), n	3.0 (2.5-3.5)	2.3 (2.1-2.5)	0.03		
Exhausted, %	30.0 (19.5-40.5)	18.9 (15.4-22.5)	0.06		
More than they can handle, %	28.3 (17.4-39.1)	16.0 (13.0-19.1)	0.04		
No time for self, %	19.4 (12.8-26.1)	16.4 (13.1-19.7)	0.42		
Care recipient's needs change frequently, %	7.9 (3.2-12.6)	10.4 (7.4-13.4)	0.39		
Caregiving-related gains	1	***************************************			
Composite gains score (0-8), n	6.1 (5.7-6.5)	6.1 (5.9-6.3)	0.90		
More confident, %	41.2 (31.5-51.0)	45.0 (40.2-49.8)	0.50		
Deal with difficult situations, %	56.3 (46.4-66.2)	53.3 (48.3-58.4)	0.63		
Closer to care recipient, %	70.2 (61.1-79.2)	67.4 (62.5-72.2)	0.62		
Satisfaction, %	85.7 (78.6-92.8)	87.9 (85.2-90.7)	0.57		
Use of supportive services, %	1	· · · · · · · · · · · · · · · · · · ·			
Support group participation	4.5 (0.8-8.1)	3.7 (1.9-5.5)	0.72		
Respite care	20.4 (13.1-27.7)	19.5 (15.9-23.1)	0.83		
Caregiving training	10.9 (4.3-17.6)	6.5 (4.4-8.7)	0.23		
Identify potential financial support for care recipient	22.8 (15.5-30.2)	15.2 (11.5-18.9)	0.07		
Use of ≥1 supportive services	41.3 (31.6-50.9)	33.6 (28.9-38.3)	0.16		
Employment and participation in other activities	1	· · · · · · · · · · · · · · · · · · ·			
Work for pay, % (95% CI)	63.9 (55.2-72.6)	55.8 (51.3-60.3)	0.09		
Caregiving prevents from working, %	18.9 (11.6-26.1)	11.1 (8.3-13.9)	0.052		
Among those who worked:					
Missed work due to caregiving, %	18.9 (9.5-28.2)	16.1 (11.4-20.7)	0.61		
Absenteeism, %†	2.1 (0.6-3.7)	1.6 (1.0-2.1)	0.49		
Presenteeism, %‡	7.9 (3.9-11.9)	6.5 (4.1-8.8)	0.55		
Caregiving preventing from participation in valued activities, %§	22.6 (14.6-30.6)	20.8 (17.3-24.2)	0.68		

Notes: Authors' analysis of data from the 2015 National Study of Caregiving (NSOC) for a cohort of adult child caregivers. We examined caregiver outcomes between adult child caregivers with and without any minor child under 18 years (i.e., sandwich vs. non-sandwich generation caregivers) using linear, logistic, and multinomial logistic regression models for continuous, binary, and categorical variables, respectively. Covariates adjusted for included caregiver demographics (sex, age, race/ethnicity), socio-economic status (marital status, education, Medicaid enrollment), general health status, whether co-residing with care recipient, and care recipient characteristics including whether living in the community, functional status (mobility, self-care, and household activities), and number of comorbidities. We calculated the mean adjusted outcomes for sandwich and non-sandwich generation caregivers. Ninety-five percent confidence intervals were reported in brackets. Differences in adjusted outcomes

between sandwich and non-sandwich generation caregivers were tested by the marginal effects. Data were weighted using the NSOC survey analytic weights, which accounted for differential probabilities of selection and nonresponse; and standard errors were adjusted to account for the complex survey design.

- † Absenteeism referred to the proportion of hours of work missed because of caregiving in the last month among total hours worked typically.
- ‡ Presenteeism referred to the degree to which the caregiver reported caregiving affected productivity when at work.
- § Valued activities included visiting with friends or family, attending religious services, participating in group activities, and going out for enjoyment.