

Supplement to:

Cherlin, Andrew J. 2023. “Evolutionary Influences on Assistance to Kin: Evidence from the Panel Study of Income Dynamics” *Sociological Science* 10: 964-988.

Online supplement to Andrew J. Cherlin, "Evolutionary Influences of Assistance to Kin: Evidence from the Panel Study of Income Dynamics."

Table 1a. Logistic regression of the log-odds of every giving money to collateral relatives: (1) Siblings; (2) Nieces or nephews; or (3) Cousins.

	(1)	(2)	(3)
	Siblings <sup>a</sup>	Nieces or nephews	Cousins
Race-Ethnicity			
Non-Hispanic White	(omitted)	(omitted)	(omitted)
Non-Hispanic Black	0.527***	1.071***	1.371***
Amer. Indian, Alaska native	1.043***	0.545	1.224*
Asian, Pacific Islander	0.825***	0.825**	0.705
Hispanic	0.720***	0.835***	1.212***
Other	1.045***	0.754	0.388
Gender			
Men	(omitted)	(omitted)	(omitted)
Women	-0.044	0.172*	0.049
Education when first observed as head, spouse, or partner			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	0.029	0.063	0.195
Some college	0.346***	0.407***	0.337
College degree or higher	0.597***	0.767***	0.453*
Age when first observed as head, spouse, or partner			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.392***	-0.136	-0.099
35 to 44	-0.629***	-0.054	-0.346
45 to 97	-1.110***	0.033	-0.602
Birth cohort			
1888 to 1949	(omitted)	(omitted)	(omitted)
1950 to 1959	0.006	0.212	-0.121
1960 to 1969	-0.065	-0.104	0.122
1970 to 1979	-0.192	-0.497*	0.254
1980 to 1989	-0.495***	-1.022***	-0.143
1990 to 2001	-1.176***	-1.778***	-0.175

(continued)

Table 1a continued

	Siblings	Nieces and nephews	Cousins
Number of siblings when first observed as head, spouse, or partner.			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-0.359
2	0.134	0.269	-0.285
3	0.301**	0.601**	-0.653*
4	0.458***	0.431	-0.897**
5	0.523***	1.029***	-0.424
6	0.753***	0.977***	-0.610
7	0.762***	0.868***	-0.454
8	0.655***	1.001***	-0.713
9	0.747***	0.814**	-0.772
10 or more	0.802***	1.082***	-0.605
Number of births			
No births	(omitted)	(omitted)	(omitted)
1	-0.088	-0.552***	-0.325
2	-0.176**	-0.615***	-0.330
3	-0.285***	-0.992***	-0.503*
4 or more	-0.458***	-1.280***	-0.718**
No. of years observed as head, spouse, or partner			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.644***	-0.552***	0.647*
9 to 19 years	1.116***	-0.615***	1.620***
20 years or more	1.476***	-0.992***	2.049***
Constant	-3.652***	-1.280***	-6.097***
Observations	34,538	34538	35,548

\*\*\* p<0.001, \*\* p<0.01, \* p<0.05

Overall predicted margin:	.0794***	0.0266***	.00852***
(95% confidence interval)	(.0766 - .082)	(.0245 - .0288)	(.00757 - .00947)

Table 1b. Joint estimation of OLS regressions of probability of ever giving money to collateral relatives, allowing for correlated cross-equation error terms (Zellner 1962).

	(1)	(2)	(3)
VARIABLES	Siblings	Nieces or nephews	Cousins
Race-Ethnicity			
Non-Hispanic White	(omitted)	(omitted)	(omitted)
Non-Hispanic Black	0.036***	0.024***	0.012***
Amer. Indian, Alaska native	0.081***	0.009	0.010
Asian, Pacific Islander	0.060***	0.018**	0.005
Hispanic	0.045***	0.015***	0.009***
Other	0.061***	0.012	0.004
Gender			
Men	(omitted)	(omitted)	(omitted)
Women	-0.002	0.004**	0.001
Education when first observed as head, spouse, or partner			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	0.001	0.001	0.001
Some college	0.023***	0.008**	0.003
College degree or higher	0.041***	0.016***	0.003
Age when first observed as head, spouse, or partner			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.024***	-0.000	-0.001
35 to 44	-0.042***	0.002	-0.003
45 to 97	-0.063***	0.004	-0.003
Birth cohort			
1888 to 1949	(omitted)	(omitted)	(omitted)
1950 to 1959	0.005	0.009**	-0.000
1960 to 1969	0.003	-0.001	0.002
1970 to 1979	-0.011	-0.008*	0.004
1980 to 1989	-0.029***	-0.011**	-0.000
1990 to 2001	-0.053***	-0.014**	-0.001

Table 1b continued

	Siblings	Nieces and nephews	Cousins
Number of siblings when first observed as head, spouse, or partner			
0	(omitted)	(omitted)	(omitted)
1	0.023*	0.007	-0.004
2	0.029**	0.011*	-0.004
3	0.038***	0.016**	-0.007*
4	0.047***	0.013*	-0.009**
5	0.052***	0.026***	-0.005
6	0.069***	0.025***	-0.007*
7	0.070***	0.022***	-0.005
8	0.061***	0.026***	-0.007*
9	0.068***	0.021***	-0.008*
10 or more	0.073***	0.029***	-0.007*
Number of births			
0	(omitted)	(omitted)	(omitted)
1	-0.005	-0.011***	-0.003
2	-0.009*	-0.014***	-0.002
3	-0.017***	-0.023***	-0.004*
4 or more	-0.027***	-0.028***	-0.005**
Observation Period			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.028***	0.007***	0.003
9 to 19 years	0.060***	0.018***	0.010***
20 years or more	0.096***	0.043***	0.015***
Constant	-0.004	-0.015*	0.004
Observations	35,548	35,548	35,548
R-squared	0.040	0.025	0.008
Standard errors in parentheses			
*** p<0.001, ** p<0.01, * p<0.05			
Overall predicted margin: (95% confidence interval)	0.0778*** (.0749 - .0803)	0.0224*** (.0209 - .0239)	0.00852*** (.00757 - .00948)

Table 2. Logistic regression of the log-odds of ever giving money to collateral relatives, for PSID-gened individuals only.

VARIABLES	Siblings	Nieces and nephews	Cousins
<b>Race-Ethnicity</b>			
Non-Hispanic White	(omitted)	(omitted)	(omitted)
Black	0.463***	0.973***	1.42***
Amer. Indian, Alaska native	0.798**	0.562	1.47*
Asian	0.769***	0.768**	1.477*
Hispanic	0.592***	0.564***	1.07***
Other	0.805***	0.532***	.678***
<b>Gender</b>			
Men	(omitted)	(omitted)	(omitted)
Women	-0.019	0.287**	0.145
<b>Education</b>			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	0.037	-0.014	0.244
Some college	0.411***	0.487***	0.574*
College degree or higher	0.656***	0.826***	0.662**
<b>Age</b>			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.250***	-0.0277	0.011
35 to 44	-0.357**	0.331	-0.130
45 or older	-0.861***	0.443	-0.475
<b>Birth cohort</b>			
1888-1949	(omitted)	(omitted)	(omitted)
1950-1959	0.097	0.402*	-0.098
1960-1969	0.154	0.238	0.229
1970-1979	0.112	0.042	0.431
1980-1989	-0.285	-0.622*	0.209
1990-2001	-1.136***	-1.676**	0.158
<b>Number of siblings</b>			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-0.392
2	0.198	0.297	-0.486
3	0.384**	0.692**	-0.657
4	0.532***	0.450	-0.995*
5	0.627***	1.125***	-0.444
6	0.782***	1.152***	-0.566
7	0.849***	1.052***	-0.542
8	0.747***	1.112***	-0.663
9	0.792***	0.906**	-0.762
10 or more	0.918***	1.212***	-0.602

Table 2 continued

	Siblings	Nieces and nephews	Cousins
Number of births			
No births	(omitted)	(omitted)	(omitted)
1	-0.132	-0.507***	-0.169
2	-0.230**	-0.683***	-0.233
3	-0.338***	-1.087***	-0.302
4 or more	-0.644***	-1.559***	-0.657*
No. of years observed as head, spouse, or partner			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.518***	0.701***	0.538
9 to 19 years	0.903***	1.017***	1.287***
20 years or more	1.234***	1.792***	1.721***
Constant	-3.688***	-6.016***	-6.222***
Observations	21,246	21,246	22,031

\*\*\* p<0.001, \*\* p<0.01, \* p<0.05

Overall predicted margin:	.0864***	0.0266**	.00976***
(95% confidence interval)	(.0824 - .0898)	(.0245 - .0288)	(.00847 - .0110)

Table 3. Logistic regression of the log-odds of ever giving money to collateral relatives, for women household heads/reference persons only.

VARIABLES	siblings	nieces and nephews	Cousins
<b>Race-Ethnicity</b>			
Non-Hispanic White	(omitted)	(omitted)	(omitted)
Black	0.457***	0.984***	1.624***
Amer. Indian, Alaska native	1.168***	0.501	1.651*
Asian	0.035	0.203	0.919
Hispanic	0.274*	-0.057	1.017*
Other	.568		
<b>Education</b>			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	0.248*	-0.075	0.500
Some college	0.700***	0.463*	0.819*
College degree or higher	0.982***	0.887***	0.711
<b>Age</b>			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.175	-0.162	-0.206
35 to 44	-0.024	0.438	-0.124
45 or older	-0.192	0.080	0.167
<b>Birth cohort</b>			
1888-1949	(omitted)	(omitted)	(omitted)
1950-1959	0.457**	0.056	0.458
1960-1969	0.410*	-0.083	0.242
1970-1979	0.514*	-0.498	0.866
1980-1989	0.031	-1.178**	0.221
1990-2001	-0.992**	-1.959***	-0.050
<b>Number of siblings</b>			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-0.291
2	0.331*	0.269	-0.417
3	0.608***	0.764**	-0.554
4	0.595***	0.712**	-0.708
5	0.757***	0.976***	-0.763
6	0.558**	0.851**	-0.283
7	0.763***	1.110***	-0.534
8	0.608**	0.446	-0.437
9	0.879***	0.910*	-1.437
10 or more	0.464*	0.389	-0.605

(continued)



Table 3 continued

	Siblings	Nieces and nephews	Cousins
Number of siblings when first observed as head, spouse, or partner			
0	(excluded)	(omitted)	(omitted)
1	(omitted)	1.288*	-0.359
2	0.134	1.557**	-0.285
3	0.301**	1.889**	-0.653*
4	0.458***	1.717**	-0.897**
5	0.523***	2.316***	-0.424
6	0.753***	2.263***	-0.610
7	0.762***	2.155***	-0.454
8	0.655***	2.287***	-0.713
9	0.747***	2.100***	-0.772
10 or more	0.802***	2.368***	-0.605
Number of births			
0	(omitted)	(omitted)	(omitted)
1	-0.088	-0.547***	-0.325
2	-0.176**	-0.617***	-0.330
3	-0.285***	-0.994***	-0.503*
4 or more	-0.458***	-1.274***	-0.718***
Observation Period			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.644***	0.589***	0.647**
9 to 19 years	1.116***	1.126***	1.620***
20 years or more	1.476***	1.894***	2.049***
Constant	-3.652***	-7.010***	-6.097***
Observations	34,538	35,548	35,548
Standard errors in parentheses			
*** p<0.001, ** p<0.01, * p<0.05			
Overall predicted margin:	.0870***	0.030***	.0118***
(95% confidence interval)	(.0813 - .0929)	(.0265 - .0336)	(.00959 - .0139)

Table 4. Logistic regression of the log-odds of ever giving money to collateral relatives, for non-Hispanic Blacks only.

VARIABLES	siblings	nieces and nephews	Cousins
<b>Gender</b>			
Men	(omitted)	(omitted)	(omitted)
Women	-0.028	0.215	0.089
<b>Education</b>			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	0.201	0.413*	0.637*
Some college	0.618***	0.846***	0.852**
College degree or higher	1.193***	1.214***	0.908**
<b>Age</b>			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.433***	-0.204	-0.113
35 to 44	-1.000***	-0.391	-0.736
45 or older	-1.580***	-0.611*	-0.940
<b>Birth cohort</b>			
1888-1949	(omitted)	(omitted)	(omitted)
1950-1959	-0.278	-0.217	-0.149
1960-1969	-0.419*	-0.613*	0.435
1970-1979	-0.430*	-1.127***	0.468
1980-1989	-0.746***	-1.727***	0.176
1990-2001	-1.366***	-2.276***	-0.888
<b>Number of siblings</b>			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-0.327
2	0.551**	0.193	-0.181
3	0.517*	0.521	-0.540
4	0.481*	0.095	-1.316**
5	0.866***	0.730*	-0.545
6	0.723***	0.657	-1.088*
7	0.975***	0.602	-0.662
8	0.845***	0.647	-1.638**
9	0.906***	0.420	-1.074*
10 or more	0.903***	0.729*	-0.624

(continued)

Table 4 continued

	Siblings	Nieces and Nephews	Cousins
Number of births			
No births	(omitted)	(omitted)	(omitted)
1	0.109	-0.618***	-0.205
2	-0.073	-0.667***	-0.610*
3	-0.151	-0.999***	-0.739**
4 or more	-0.369**	-1.440***	-1.063***
No. of years observed as head, spouse, or partner			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.792***	0.826***	0.565
9 to 19 years	1.263***	1.219***	1.625***
20 years or more	1.595***	1.862***	2.209***
Constant	-3.403***	-4.130***	-5.095***
Observations	9,971	9,971	10,317

\*\*\* p<0.001, \*\* p<0.01, \* p<0.05

Overall predicted margin:	.0974***	0.0367***	.0154***
(95% confidence interval)	(.0918- .103)	(.0331 - .0403)	(.0131- .0178)

Table 5. Logistic regression of the log-odds of ever giving money to collateral relatives, Hispanics only.

VARIABLES	siblings	nieces and nephews	Cousins
<b>Gender</b>			
Men	(omitted)	(omitted)	(omitted)
Women	-0.098	-0.004	0.128
<b>Education</b>			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	-0.068	-0.385	-0.594
Some college	0.119	0.029	-0.568
College degree or higher	0.312*	0.524	-0.208
<b>Age</b>			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.140	0.419	0.168
35 to 44	-0.220	0.718	0.251
45 or older	-1.098***	0.640	-0.472
<b>Birth cohort</b>			
1888-1949	(omitted)	(omitted)	(omitted)
1950-1959	-0.189	0.177	-0.142
1960-1969	0.006	0.008	-0.498
1970-1979	-0.628**	0.297	0.280
1980-1989	-0.790**	-0.598	-0.404
1990-2001	-1.933***	-0.800	0.525
<b>Number of siblings</b>			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-0.327
2 or more	0.346	1.236	
<b>Number of births</b>			
No births	(omitted)	(omitted)	(omitted)
1	-0.241	-0.752*	-0.536
2	-0.453**	-0.580*	0.278
3	-0.480**	-1.344***	-0.290
4 or more	-0.471**	-1.172***	-0.396
<b>No. of years observed as head, spouse, or partner</b>			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.395***	0.516*	0.640
9 to 19 years	0.716***	0.259	1.578***
20 years or more	1.120***	2.039***	1.559***

Table 5 continued

Constant	-2.205***	-5.466***	-5.237***
Observations	7,019	7,019	7,179

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\*\*\* p<0.001, \*\* p<0.01, \* p<0.05

Overall predicted margin:	.0798***	0.0189***	.0071***
(95% confidence interval)	(.0734- .0860)	(.0158 - .0221)	(.00517- .00904)

Table 6. Logistic regression of the log-odds of ever giving money to collateral relatives, non-Hispanic Whites only.

VARIABLES	Siblings	Nieces and nephews	Cousins
<b>Gender</b>			
Men	(omitted)	(omitted)	(omitted)
Women	-0.066	0.180	-0.031
<b>Education</b>			
Less than high school degree	(omitted)	(omitted)	(omitted)
High school degree	-0.061	-0.105	0.226
Some college	0.213	0.133	0.323
College degree or higher	0.354**	0.555*	0.530
<b>Age</b>			
14 to 24	(omitted)	(omitted)	(omitted)
25 to 34	-0.453***	-0.316	-0.266
35 to 44	-0.562***	-0.264	-0.638
45 or older	-0.872***	-0.080	-0.765
<b>Birth cohort</b>			
1888-1949	(omitted)	(omitted)	(omitted)
1950-1959	0.195	0.215	-0.144
1960-1969	0.403	-0.189	-0.439
1970-1979	0.0474	-0.760*	-0.264
1980-2001	-0.386	-1.496**	-0.797
<b>Number of siblings</b>			
No siblings	(omitted)	(omitted)	(omitted)
1	(omitted)	(omitted)	-1.57*
2	-0.092	0.307	-0.909
3	0.264	0.652*	-1.009
4	0.518***	0.545	-0.872
5	0.341*	1.104***	-0.978
6	0.770***	1.078***	-0.819
7	0.763***	0.312	-0.773
8	0.634***	1.028**	-0.688
9	0.608**	0.196	-2.025
10 or more	0.801***	0.915**	-1.348

(continued)

Table 6 continued

Number of births			
No births	(omitted)	(omitted)	(omitted)
1	-0.207	-0.456*	-0.585
2	-0.165	-0.550**	-0.226
3	-0.303**	-0.899***	-0.170
4 or more	-0.478***	-0.998***	-0.268
No. of years observed as head, spouse, or partner			
0 to 3 years	(omitted)	(omitted)	(omitted)
4 to 8 years	0.801***	0.637	0.875
9 to 19 years	1.447***	1.339***	1.948**
20 years or more	1.830***	2.040***	2.109***
Constant	-3.887***	-5.546***	-5.471***
Observations	16,519	16,519	16,971

\*\*\* p<0.001, \*\* p<0.01, \* p<0.05

Overall predicted margin:	.0659***	0.0163***	.00495***
(95% confidence interval)	(.0622- .0696)	(.0144 - .0182)	(.0039- .006)

Table 7. Two-sample t-tests of racial-ethnic differences in assistance to collateral relationships, with Bonferroni adjustments for multiple t-tests.

	black v. Hispanic	black v. white	white v. Hispanic
Ever gave money to:			
Siblings	t = 4.07, df = 16,988, p < .0001	t = 10.51 d.f. = 26,488, p < .0001	t = 3.89, d.f. = 25,536, p < .0001,
Nieces and nephews	t = 6.92, d.f. = 16,988, p < .0001	t = 10.51 d.f. = 26,488 p < .0001	t = 1.38, d.f. = 23,536, p = N.S.
Cousins	t = 4.86, d.f. = 17494, p < .0001	t = 8.99; d.f. = 27,286, p < .0001.	t = 1.97, d.f. = 24,148, p = N.S.