

Appendix

A1: Linearity Assumption

Absolute upward and downward health mobility rely heavily on the assumption of linearity in the Ordinary Least Squares Specification. A Ramsey RESET test (1) in the ECLS-K sample supports this assumption¹. A formal analysis of this assumption in a national distribution can also be found in Halliday et al. (2). Our analysis diverges from the data frame used in that previous work in two potentially important ways. First, children (and their parents) are observed at younger ages yielding less overall variation in health. Second, we are utilizing stratifications along various subpopulations to compare and contrast health mobility patterns in addition to using a full national distribution.

We employ a simple check of the linearity assumption by infusing a small amount of uniform error to reported health status to randomly break all ties in health status. As expected, the coefficient of health persistence in the noise-infused health ranks decreases marginally (from 0.411 to 0.395) and upward mobility is stable (41.35 vs. 40.95). For the national distribution, we calculate the mean child health for all parents at each percentile of parent health and plot the results in Exhibit A1.1. Based on this check, we conclude that health mobility in our sample of young children is consistent with the assumption of linearity.

[Exhibit A1.1]

For each subpopulation we pursue a similar check, but must aggregate parent health in 5 percentile bins due to smaller samples. We examine all samples visually, and all conform to the assumption of linearity and are available upon request.

A2: Correcting for Sampling Design

ECLS-K is a probability sample, and the main results correct for base year sampling design. Here we demonstrate that the results and main conclusions are not sensitive to the utilized sample. Specifically we examine whether an unweighted analysis and an analysis correcting for panel sample design is robust. In Exhibits A2.1 and A2.2, individual analysis is unweighted and corrected for the panel design respectively. Corresponding community analysis is in Exhibits A2.3 and A2.4. As highlighted in those Exhibits, results are stable to the sample selection, although the panel estimates suffer from some precision loss with a smaller sample.

[Exhibit A2.1]

[Exhibit A2.2]

[Exhibit A2.3]

[Exhibit A2.4]

A3: Method for Breaking Ties of Equivalent Health

The main method for dealing with equivalent observed health is to assign marginally better health to individuals observed more frequently as indicated in the main text. The most common report for children’s health is consistent “excellent” health. The most frequent report for parents is consistent “very good” health (the second most frequent report is consistent “excellent” health). Therefore, we are most interested in breaking ties among persons in relatively better health. Since unobserved health status may at best be “excellent”, we

implicitly assume an unobserved report is no better than an observed report, but can be lower. For each wave beyond the first observation, an additional report receives an additional 0.001 points assigned to the adjusted health status. This preserves the main ordering while breaking ties by frequency of observation.

This assumption is most plausible for consistently “excellent” health, and may be less clear for other ties. We therefore examine three additional methods to deal with equivalent observed health. First, rather than ordering persons with more observations in relatively better health, the order is reversed. We argue this is likely a less desirable ordering, but provides insight into the range of mobility statistics that are possible in this sample based on ordering of equivalent health. Second, we take an agnostic approach to ordering and infuse a small amount of uniform random noise to each generation. Finally, observed health is taken as observed, without modification, and ties for equivalent health are not broken. As observed in Exhibit A3.1 below, results from this sample do not appear sensitive to the method of breaking ties. Unreported results of this exercise by subpopulation suggest similar patterns.

[Exhibit A3.1]

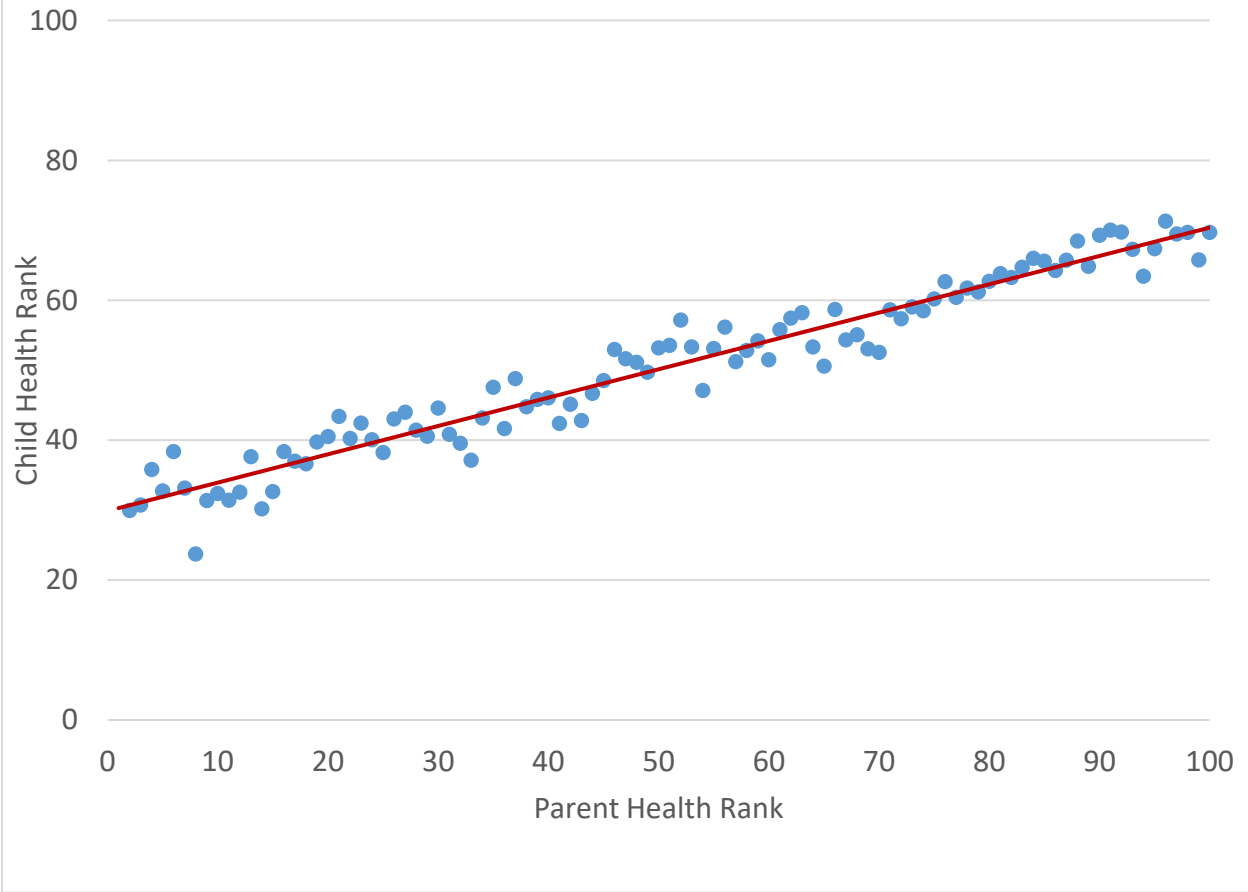
References

1. Ramsey JB. Tests for specification errors in classical linear least-squares regression analysis. *J R Stat Soc Ser B Methodol.* 1969;31(2):350–371.
2. Halliday T, Mazumder B, Wong A. The intergenerational transmission of health in the United States: A latent variables analysis. *Health Econ.* 2020;29(3):243–390.
3. Garbarski D. Comparing self and maternal reports of adolescents' general health status: Do self and proxy reports differ in their relationships with covariates? *Qual Life Res.* 2014;23(7):1953–1965.
4. Fletcher J, Jajtner KM. Intergenerational Health Mobility: Magnitudes and Importance of Schools and Place. National Bureau of Economic Research; 2019.
5. ECLS-K. ECLS-K, Base Year Public-Use Data File, Kindergarten Class of 1998-99: Data Files and Electronic Code Book (Child, Teacher, School Files), and User's Manual [Internet]. National Center for Education Statistics; 2004 [cited 2020 Jun 25]. Available from: <https://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2001029rev>

¹ Specifically, residual health in each generation is calculated from a generation-specific OLS regression of age and age-squared on health rank. Residual parent health is regressed on child residual health to remove age controls such that the Ramsey RESET test only examines the possibility of non-linearities in parent health ranks. The slope coefficient in the normalized regression is 0.411. The F-statistic from the RESET test is 0.366 with a p-value of 0.778, failing to reject the null hypothesis of nonlinearities in the full sample.

Exhibits:

Exhibit A1.1: Checking the linearity assumption



Source: Authors’ calculations using ECLS-K data.

Notes: Uniform random noise infused into both generation's health to break equivalent health statuses. Child health rank (vertical axis) is the observed average rank at each percentile of parent health.

Exhibit A2.1: Comparison of Individual-level Results using an Unweighted Sample

Subpopulation	Reference Group	Main Results (Base Year Correction)					Unweighted Sample				
		N	Upward Mobility		Downward Mobility		N	Upward Mobility		Downward Mobility	
			Estimate	Gap	Estimate	Gap		Estimate	Gap	Estimate	Gap
All groups		16,025	41.35		61.89		18439	40.78		61.53	
Boys	Boys	8,162	40.55		61.12		9435	39.34		60.42	
Female	Boys	7,863	42.11	1.56+	62.70	1.58+	9004	42.19	2.85**	62.67	2.25**
nH White	nH White	9,476	44.86		64.35		10645	44.34		64.09	
nH Black	nH White	2,097	37.71	-7.15**	54.98	-9.37**	2495	37.61	-6.72**	54.61	-9.48**
Hispanic	nH White	2,780	36.30	-8.56**	55.87	-8.48**	3242	36.14	-8.2**	56.08	-8.01**
Other R/E	nH White	838	40.58	-4.28*	60.21	-4.14	971	40.76	-3.58*	59.09	-5**
Health Insurance	Health Insurance	14,610	41.99		62.39		16156	41.40		62.04	
No Insurance	Health Insurance	1,402	35.91	-6.08**	54.90	-7.48**	1570	35.34	-6.06**	54.99	-7.06**
4+ yrs College	4+ yrs College	5,473	46.67		65.26		5994	45.11		64.33	
Some College	4+ yrs College	5,252	42.23	-4.44**	60.90	-4.37**	5884	42.02	-3.1**	61.13	-3.19**
HS/GED	4+ yrs College	3,976	39.11	-7.56**	58.02	-7.25**	4585	38.21	-6.9**	57.05	-7.28**
< HS	4+ yrs College	1,324	31.10	-15.57**	45.78	-19.48**	1618	30.74	-14.37**	46.70	-17.62**
Top 25% Income	Top 25% Income	4,297	46.45		65.43		4718	45.59		64.83	
Q2 Income	Top 25% Income	3,823	45.74	-.71	64.38	-1.05	4265	44.85	-.73	63.59	-1.25
Q3 Income	Top 25% Income	4,221	39.93	-6.53**	58.25	-7.19**	4768	39.48	-6.11**	58.42	-6.41**
Q4 Income	Top 25% Income	3,684	35.26	-11.2**	52.07	-13.36**	4330	34.75	-10.84**	51.86	-12.97**

Source: Authors' calculations using ECLS-K data.

Notes: Main Results correspond to reported estimates in Table A4.1 below. Health mobility is the predicted health rank from an OLS regression of parent health rank on child health rank under the assumption of linearity (controlling for age – normalized to mean-zero – in each generation). Parents report all characteristics. Race/ethnicity and health insurance status refers to the child's characteristics, while educational attainment refers to the highest attaining parent's education. p < 0.1 +, p < 0.5 *, p < 0.1 **

Exhibit A2.2: Comparison of Individual-level Results using a Panel Sample

Subpopulation	Reference Group	Main Results (Base Year Correction)					Panel Correction: Waves 1 - 7				
		N	Upward Mobility		Downward Mobility		N	Upward Mobility		Downward Mobility	
			Estimate	Gap	Estimate	Gap		Estimate	Gap	Estimate	Gap
All groups		16,025	41.35		61.89		6,330	39.80		64.51	
Boys	Boys	8,162	40.55		61.12		3,221	37.30		62.07	
Female	Boys	7,863	42.11	1.56+	62.70	1.58+	3,109	42.07	4.77**	66.79	4.73**
nH White	nH White	9,476	44.86		64.35		4,317	43.56		65.52	
nH Black	nH White	2,097	37.71	-7.15**	54.98	-9.37**	457	37.50	-6.06*	61.23	-4.29
Hispanic	nH White	2,780	36.30	-8.56**	55.87	-8.48**	993	32.26	-11.3**	60.40	-5.12*
Other R/E	nH White	838	40.58	-4.28*	60.21	-4.14	301	44.65	1.09	61.95	-3.57
Health Insurance	Health Insurance	14,610	41.99		62.39		5,897	40.28		64.72	
No Insurance	Health Insurance	1,402	35.91	-6.08**	54.90	-7.48**	430	35.12	-5.16+	60.24	-4.47
4+ yrs College	4+ yrs College	5,473	46.67		65.26		2,658	44.52		66.49	
Some College	4+ yrs College	5,252	42.23	-4.44**	60.90	-4.37**	2,061	41.75	-2.76	64.18	-2.31
HS/GED	4+ yrs College	3,976	39.11	-7.56**	58.02	-7.25**	1,255	36.12	-8.4**	58.41	-8.08**
< HS	4+ yrs College	1,324	31.10	-15.57**	45.78	-19.48**	356	28.34	-16.18**	50.55	-15.93**
Top 25% Income	Top 25% Income	4,297	46.45		65.43		2,095	43.34		66.06	
Q2 Income	Top 25% Income	3,823	45.74	-.71	64.38	-1.05	1,757	45.17	1.82	66.68	.62
Q3 Income	Top 25% Income	4,221	39.93	-6.53**	58.25	-7.19**	1,460	37.49	-5.86*	60.40	-5.67**
Q4 Income	Top 25% Income	3,684	35.26	-11.2**	52.07	-13.36**	1,018	33.85	-9.49**	55.85	-10.21**

Source: Authors' calculations using ECLS-K data.

Notes: Main Results correspond to reported estimates in Table A4.1 below. Health mobility is the predicted health rank from an OLS regression of parent health rank on child health rank under the assumption of linearity (controlling for age – normalized to mean-zero – in each generation). Parents report all characteristics. Race/ethnicity and health insurance status refers to the child's characteristics, while educational attainment refers to the highest attaining parent's education. Panel correction employs ECLS-K parent weights, strata, and clusters for waves 1 – 7. p < 0.1 +, p < 0.5 *, p < 0.1 **

Exhibit A2.3: Community-level Results using an Unweighted Sample

Subpopulation	Reference Group	Main Results (Base Year Correction)					Unweighted Sample				
		N	Upward Mobility		Downward Mobility		N	Upward Mobility		Downward Mobility	
			Estimate	Gap	Estimate	Gap		Estimate	Gap	Estimate	Gap
All communities		15,176	40.99		61.60		16289	40.79		61.58	
Urban	Urban	6,235	40.02		61.15		6739	40.44		61.20	
Urban Fringe - Large Towns	Urban	5,869	42.08	2.07	61.70	.55	6229	41.90	1.46	61.99	.79
Small Towns - Rural	Urban	3,072	40.52	.51	61.62	.47	3321	39.34	-1.1	61.05	-.15
T1 Married	Top third	5,298	43.63		64.67		5393	42.78		63.87	
T2 Married	Top third	5,074	41.97	-1.67	62.81	-1.86+	5200	42.14	-.64	62.69	-1.18
T3 Married	Top third	4,725	38.77	-4.86**	57.64	-7.03**	4937	38.96	-3.83**	57.81	-6.06**
T1 nH white	Top third	5,207	43.47		63.88		5398	43.56		64.25	
T2 nH white	Top third	4,889	46.04	2.57*	64.74	.86	5175	45.45	1.89+	64.41	.16
T3 nH white	Top third	4,303	40.78	-2.7+	58.54	-5.34**	4781	40.43	-3.12*	58.54	-5.7**
T1 Insured	Top third	5,402	43.17		64.01		5579	42.83		63.69	
T2 Insured	Top third	4,893	43.04	-.13	61.75	-2.26*	5058	42.52	-.31	61.43	-2.26*
T3 Insured	Top third	4,868	38.35	-4.82**	58.65	-5.36**	5148	37.96	-4.87**	58.17	-5.52**
T1 Education	Top third	5,302	46.76		65.42		5477	45.86		64.73	
T2 Education	Top third	5,073	47.08	.32	64.63	-.79	5382	44.99	-.88	63.62	-1.11
T3 Education	Top third	4,801	42.64	-4.12**	58.51	-6.92**	5237	41.15	-4.71**	57.70	-7.03**
T1 Income	Top third	5,279	46.42		65.33		5465	45.78		64.90	
T2 Income	Top third	5,113	46.64	.22	65.07	-.27	5400	45.96	.18	64.80	-.1
T3 Income	Top third	4,784	40.50	-5.92**	58.58	-6.75**	5231	40.10	-5.68**	57.99	-6.91**

Source: Authors' calculations using ECLS-K data.

Notes: Main Results correspond to reported estimates in Table A4.2 below. T represents the tercile of a particular characteristic. *Married* refers to the portion of married parents; *nH white* refers to the portion of non-Hispanic white children; *Insurance* refers to the portion of children with health insurance in Kindergarten; *Education* refers to the parent(s)' highest educational attainment, and *Income* refers to imputed parent income from Kindergarten (1998-1999) in \$1,000s. All estimates adjusted for corresponding individual characteristics.

p < 0.1 +, p < 0.5 *, p < 0.1 **

Exhibit A2.4: Community-level Results using a Panel Sample

Subpopulation	Reference Group	Main Results (Base Year Correction)					Panel Correction: Waves 1 - 7				
		N	Upward Mobility		Downward Mobility		N	Upward Mobility		Downward Mobility	
			Estimate	Gap	Estimate	Gap		Estimate	Gap	Estimate	Gap
All communities		15,176	40.99		61.60		6,102	40		64.83	
Urban	Urban	6,235	40.02		61.15		2,200	40		64.78	
Urban Fringe - Large Towns	Urban	5,869	42.08	2.07	61.70	.55	2,407	41	1.15	63.96	-.82
Small Towns - Rural	Urban	3,072	40.52	.51	61.62	.47	1,495	39	-1.12	66.27	1.49
T1 Married	Top third	5,298	43.63		64.67		2,655	42		65.44	
T2 Married	Top third	5,074	41.97	-1.67	62.81	-1.86+	2,068	40	-1.83	64.97	-.47
T3 Married	Top third	4,725	38.77	-4.86**	57.64	-7.03**	1,364	37	-5.22*	61.83	-3.62+
T1 nH white	Top third	5,207	43.47		63.88		2,692	44		65.95	
T2 nH white	Top third	4,889	46.04	2.57*	64.74	.86	1,907	45	1.97	66.30	.35
T3 nH white	Top third	4,303	40.78	-2.7+	58.54	-5.34**	1,257	36	-7.33**	57.66	-8.29**
T1 Insured	Top third	5,402	43.17		64.01		2,472	42		66.00	
T2 Insured	Top third	4,893	43.04	-.13	61.75	-2.26*	1,982	41	-.65	64.50	-1.5
T3 Insured	Top third	4,868	38.35	-4.82**	58.65	-5.36**	1,645	37	-4.51*	62.86	-3.14
T1 Education	Top third	5,302	46.76		65.42		2,551	46		67.05	
T2 Education	Top third	5,073	47.08	.32	64.63	-.79	2,070	46	.14	66.49	-.56
T3 Education	Top third	4,801	42.64	-4.12**	58.51	-6.92**	1,481	43	-2.72	65.77	-1.28
T1 Income	Top third	5,279	46.42		65.33		2,551	44		66.34	
T2 Income	Top third	5,113	46.64	.22	65.07	-.27	2,093	47	2.98	67.75	1.41
T3 Income	Top third	4,784	40.50	-5.92**	58.58	-6.75**	1,458	39	-5.41*	62.93	-3.41

Source: Authors' calculations using ECLS-K data.

Notes: Main Results correspond to reported estimates in Table A4.2 below. T represents the tercile of a particular characteristic. *Married* refers to the portion of married parents; *nH white* refers to the portion of non-Hispanic white children; *Insurance* refers to the portion of children with health insurance in Kindergarten; *Education* refers to the parent(s)' highest educational attainment, and *Income* refers to imputed parent income from Kindergarten (1998-1999) in \$1,000s. All estimates adjusted for corresponding individual characteristics. Panel correction employs ECLS-K parent weights, strata, and clusters for waves 1 – 7. p < 0.1 +, p < 0.5 *, p < 0.1 **

Exhibit A3.1: Sensitivity of Results to Breaking Ties of Equivalent Health

	Main Results	Reorder	Noise	None
Rank Slope	0.411 (0.008)	0.379 (0.008)	0.395 (0.008)	0.396 (0.008)
Upward Mobility	41.345 (0.549)	40.419 (0.532)	40.946 (0.533)	40.867 (0.537)
Downward Mobility	61.889 (0.486)	59.351 (0.504)	60.672 (0.478)	60.651 (0.489)

Source: Authors' calculations using Add Health.

Notes: Main results are presented in the first column for comparison. Reordering ranks such that persons with more reports are ordered with lower health is in the second column. The third column infuses random noise to health in each generation, and the final column does not adjust ties.

A4: Full Tables of Descriptive Statistics

Exhibit A4.1: Health Mobility at the Individual Level

Subpopulation	N	Average Health		Reference Group	Upward Mobility			Downward Mobility		
		Child	Parent		Estimate	95% CI	Gap	Estimate	95% CI	Gap
All groups	16,025	91.0	84.1		41.35	(40.27 -- 42.42)		61.89	(60.93 -- 62.85)	
Boys	8,162	90.7	84.2	Boys	40.55	(39.18 -- 41.92)		61.12	(59.82 -- 62.42)	
Female	7,863	91.3	83.9	Boys	42.11	(40.83 -- 43.38)	1.56+	62.70	(61.53 -- 63.87)	1.58+
nH White	9,476	92.2	86.2	nH White	44.86	(43.4 -- 46.33)		64.35	(63.34 -- 65.36)	
nH Black	2,097	89.1	80.9	nH White	37.71	(34.95 -- 40.48)	-7.15**	54.98	(52.14 -- 57.81)	-9.37**
Hispanic	2,780	88.6	80.2	nH White	36.30	(34.26 -- 38.34)	-8.56**	55.87	(53.49 -- 58.25)	-8.48**
Other R/E	838	90.6	82.6	nH White	40.58	(37.1 -- 44.06)	-4.28*	60.21	(54.96 -- 65.46)	-4.14
Health Insurance	14,610	91.2	84.4	Health Insurance	41.99	(40.96 -- 43.02)		62.39	(61.46 -- 63.31)	
No Insurance	1,402	89.1	80.5	Health Insurance	35.91	(32.86 -- 38.96)	-6.08**	54.90	(51.77 -- 58.04)	-7.48**
4+ yrs College	5,473	93.1	88.6	4+ yrs College	46.67	(44.5 -- 48.84)		65.26	(63.83 -- 66.7)	
Some College	5,252	91.2	84.2	4+ yrs College	42.23	(40.71 -- 43.74)	-4.44**	60.90	(59.35 -- 62.44)	-4.37**
HS/GED	3,976	89.7	81.4	4+ yrs College	39.11	(37.28 -- 40.94)	-7.56**	58.02	(56.09 -- 59.94)	-7.25**
< HS	1,324	86.3	76.0	4+ yrs College	31.10	(28.71 -- 33.5)	-15.57**	45.78	(42.19 -- 49.37)	-19.48**
Top 25% Income	4,297	93.3	89.0	Top 25% Income	46.45	(44.24 -- 48.67)		65.43	(64.02 -- 66.85)	
Q2 Income	3,823	92.2	86.3	Top 25% Income	45.74	(43.93 -- 47.55)	-.71	64.38	(62.65 -- 66.12)	-1.05
Q3 Income	4,221	90.6	83.0	Top 25% Income	39.93	(38.05 -- 41.8)	-6.53**	58.25	(56.3 -- 60.19)	-7.19**
Q4 Income	3,684	87.9	78.3	Top 25% Income	35.26	(33.89 -- 36.62)	-11.2**	52.07	(50.24 -- 53.9)	-13.36**

Source: Authors' calculations using ECLS-K data.

Notes: Health mobility is the predicted health rank from an OLS regression of parent health rank on child health rank under the assumption of linearity (controlling for age – normalized to mean-zero – in each generation). Parents report all characteristics. Race/ethnicity and health insurance status refers to the child's characteristics, while educational attainment refers to the highest attaining parent's education. Results adjusted for base year sampling design. $p < 0.1$ +, $p < 0.5$ *, $p < 0.1$ **.

Exhibit A4.2: Health mobility descriptive statistics at the community level.

Subpopulation	Range	N	Average Health		Reference Group	Upward Mobility			Downward Mobility		
			Child	Parent		Estimate	95% CI	Gap	Estimate	95% CI	Gap
All Schools		15,176	91.0	84.1		40.99	(39.93 -- 42.06)		61.60	(60.68 -- 62.53)	
Urban		6,235	90.3	83.1	Urban	40.02	(38.48 -- 41.56)		61.15	(59.65 -- 62.66)	
Urban Fringe - Large Towns		5,869	91.6	85.0	Urban	42.08	(40.33 -- 43.84)	2.07	61.70	(60.21 -- 63.19)	.55
Small Towns - Rural		3,072	91.0	83.9	Urban	40.52	(37.74 -- 43.31)	.51	61.62	(59.3 -- 63.95)	.47
T1 Married	83.3 - 100	5,298	92.7	87.4	Top third	43.63	(41.77 -- 45.5)		64.67	(63.39 -- 65.94)	
T2 Married	65 - 83.2	5,074	91.1	83.9	Top third	41.97	(40.19 -- 43.74)	-1.67	62.81	(61.38 -- 64.25)	-1.86+
T3 Married	6.4 - 64.9	4,725	89.3	81.2	Top third	38.77	(36.91 -- 40.64)	-4.86**	57.64	(55.38 -- 59.89)	-7.03**
T1 nH white	85 - 100	5,207	92.4	86.6	Top third	43.47	(41.72 -- 45.22)		63.88	(62.52 -- 65.24)	
T2 nH white	42.1 - 84.9	4,889	91.6	84.7	Top third	46.04	(43.86 -- 48.22)	2.57*	64.74	(63.1 -- 66.37)	.86
T3 nH white	0 - 42.1	4,303	88.9	80.6	Top third	40.78	(38.03 -- 43.52)	-2.7+	58.54	(56.11 -- 60.97)	-5.34**
T1 Insured	100 - 100	5,402	92.2	86.4	Top third	43.17	(41.52 -- 44.81)		64.01	(62.68 -- 65.34)	
T2 Insured	89.8 - 98.5	4,893	91.3	84.4	Top third	43.04	(41.46 -- 44.62)	-.13	61.75	(60.29 -- 63.22)	-2.26*
T3 Insured	26 - 89.8	4,868	89.5	81.7	Top third	38.35	(36.76 -- 39.94)	-4.82**	58.65	(56.7 -- 60.6)	-5.36**
T1 Education	14.6 - 19.3	5,302	93.0	88.4	Top third	46.76	(44.44 -- 49.08)		65.42	(63.94 -- 66.91)	
T2 Education	13.3 - 14.6	5,073	91.4	84.4	Top third	47.08	(44.67 -- 49.48)	.32	64.63	(63 -- 66.27)	-.79
T3 Education	9.2 - 13.3	4,801	88.9	80.2	Top third	42.64	(39.99 -- 45.29)	-4.12**	58.51	(56.46 -- 60.55)	-6.92**
T1 Income	58.2 - 328.9	5,279	93.1	88.3	Top third	46.42	(44.03 -- 48.82)		65.33	(63.95 -- 66.72)	
T2 Income	36.2 - 58.2	5,113	91.4	84.5	Top third	46.64	(44.22 -- 49.05)	.22	65.07	(63.17 -- 66.96)	-.27
T3 Income	6.6 - 36.2	4,784	88.8	80.1	Top third	40.50	(37.81 -- 43.2)	-5.92**	58.58	(56.31 -- 60.85)	-6.75**

Source: Authors' calculations using ECLS-K data.

Notes: Notes from Exhibit A4.1 apply. T represents the tercile of a particular characteristic. *Married* refers to the portion of married parents; *nH white* refers to the portion of non-Hispanic white children; *Insurance* refers to the portion of children with health insurance in Kindergarten; *Education* refers to the parent(s)' highest educational attainment, and *Income* refers to imputed parent income from Kindergarten (1998-1999) in \$1,000s. Results adjust for base year sampling design. p < 0.1 +, p < 0.5 *, p < 0.1 **

A5: Full Tables of Regression Analysis

Exhibit A5.1: Estimating Individual Characteristics and Health Mobility

	Full Sample	Gender	Race/ Ethnicity	Health Insurance	Education	Income
Parent Health	0.411** (0.00836)	0.411** (0.0116)	0.390** (0.0124)	0.408** (0.00847)	0.372** (0.0173)	0.380** (0.0184)
2.group x Parent Health		0.000446 (0.0163)	-0.0443+ (0.0251)	-0.0280 (0.0305)	0.00152 (0.0224)	-0.00677 (0.0254)
3.group x Parent Health			0.00175 (0.0262)		0.00627 (0.0243)	-0.0132 (0.0248)
4.group x Parent Health			0.00289 (0.0381)		-0.0784* (0.0344)	-0.0433+ (0.0246)
2.group		1.547 (1.057)	-6.044** (1.954)	-5.384** (1.942)	-4.480* (1.783)	-0.543 (1.984)
3.group			-8.606** (1.759)		-7.716** (1.730)	-6.194** (1.872)
4.group			-4.356* (2.093)		-13.61** (2.153)	-10.12** (1.805)
Constant	31.07** (0.682)	30.27** (0.875)	35.12** (0.993)	31.79** (0.659)	37.37** (1.457)	36.96** (1.509)
N	16025	16025	15191	16012	16025	16025

Source: Authors' calculations using ECLS-K.

Notes: Estimates from OLS model of the following form: $Rank_c = \beta_0 + \beta_1 Rank_p + \beta_2 Group + \beta_3 (Group \times Rank_p) + age\ controls + \varepsilon$. All models incorporate normalized (i.e. mean-zero) age controls in each generation of quadratic form fully interacted across the grouping variable (coefficients omitted from table for parsimony). Grouping variable detailed in Table A5.1.1 below. Health mobility is calculated as $E(child's\ rank|p(rank) = x) = \beta_0 + \beta_1(x)$ from each OLS regression. Upward mobility is defined at the 25th percentile (i.e. $x = 25$), and downward mobility is defined at the 75th percentile (i.e. $x = 75$).
 $p < 0.1 +$, $p < 0.5 *$, $p < 0.1 **$.

Stratifying groups are defined as follows:

Exhibit A5.1.1: Grouping variables for individual characteristics

	Gender	Race/ Ethnicity	Health Insurance	Education	Income
1.group = reference	Boys	nH White	Insured	4+ years college	Q1 Income (top)
2.group	Girls	nH Black	Not Insured	Some college	Q2 Income
3.group		Hispanic		HS/GED	Q3 Income
4.group		Other		< HS	Q4 Income

Exhibit A5.2: Estimating Community Characteristics and Health Mobility

	All Schools	Urbanicity	Race Composition	Portion Married	Portion Insured	Average Education	Average Income
Parent Health	0.412** (0.00892)	0.423** (0.0123)	0.408** (0.0160)	0.421** (0.0164)	0.417** (0.0148)	0.373** (0.0201)	0.378** (0.0209)
2.group x Parent Health		-0.0303+ (0.0161)	-0.0342 (0.0218)	-0.00377 (0.0211)	-0.0426+ (0.0223)	-0.0220 (0.0218)	-0.00961 (0.0226)
3.group x Parent Health		-0.000784 (0.0286)	-0.0528+ (0.0317)	-0.0434+ (0.0248)	-0.0109 (0.0237)	-0.0558* (0.0259)	-0.0167 (0.0278)
2.group		2.827+ (1.499)	3.422* (1.651)	-1.575 (1.554)	0.939 (1.469)	0.866 (1.829)	0.455 (1.671)
3.group		0.528 (2.166)	-1.375 (2.072)	-3.774* (1.669)	-4.542** (1.479)	-2.728 (1.897)	-5.503** (1.870)
2.ind x Parent Health			-0.0105 (0.0335)	-0.0461* (0.0206)	-0.0252 (0.0318)	0.0217 (0.0235)	-0.00422 (0.0262)
3.indv x Parent Health			0.0150 (0.0320)			0.0384 (0.0275)	-0.0117 (0.0241)
4.ind x Parent Health			0.0248 (0.0439)			-0.0211 (0.0381)	-0.0294 (0.0277)
2.ind			-3.857+ (1.974)	-0.0553 (1.246)	-1.901 (1.603)	-3.690* (1.592)	-0.532 (1.812)
3.ind			-6.255** (1.869)			-6.962** (1.721)	-2.706 (1.693)
4.ind			-3.250 (2.105)			-11.68** (2.112)	-6.741** (1.777)
Constant	30.69** (0.693)	29.45** (0.953)	33.27** (1.195)	33.12** (1.284)	32.74** (1.110)	37.43** (1.600)	36.97** (1.673)
N	15176	15176	14399	15097	15163	15176	15176

Source: Authors' calculations using ECLS-K.

Notes: Estimates from OLS model of the following form: $Rank_c = \beta_0 + \beta_1 Rank_p + \beta_2 Group + \beta_3 (Group \times Rank_p) + \beta_4 Ind. group + \beta_5 (Ind. group \times Rank_p) + age\ controls + \varepsilon$. All models incorporate normalized (i.e. mean-zero) age controls in each generation of quadratic form fully interacted across the community grouping variable (coefficients omitted from table for parsimony). Models additionally controlled for

appropriate individual characteristics (*Ind. group*) as outlined in Table A5.2.1 and Table A5.1.1. Health mobility is calculated as $E(\text{child's rank} | p(\text{rank}) = x) = \beta_0 + \beta_1(x)$ from each OLS regression. Upward mobility is defined at the 25th percentile (i.e. $x = 25$), and downward mobility is defined at the 75th percentile (i.e. $x = 75$). $p < 0.1$ +, $p < 0.5$ *, $p < 0.1$ **.

Stratifying groups are defined as follows:

Exhibit A5.2.1: Mapping control variables for regressions

	Urbanicity	Race Composition	Portion Married	Portion Insured	Average Education	Average Income
1.group = reference	Urban	Top Third	Top Third	Top Third	Top Third	Top Third
2.group	Suburban	Middle Third	Middle Third	Middle Third	Middle Third	Middle Third
3.group	Rural	Bottom Third	Bottom Third	Bottom Third	Bottom Third	Bottom Third
Ind.group variable	n/a	Race/Ethnicity	Marital Status	Health Insurance	Education	Income