Appendix C-IV-1. Standardized logit models predicting childhood diagnosis of asthma by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					2.28	(1.23)	0.44	(0.25)
African American	6.38 ***	(3.47)	0.70	(0.57)				
First born in family (omitted=no)	0.94	(0.46)	0.57	(0.40)	0.45	(0.22)	1.12	(0.72)
Child was low birthweight or extremely premature (omitted=no)	3.55	(2.37)	3.20	(3.54)	5.10 *	(3.32)	0.58	(0.98)
Caregiver and household characteristics								
Number of siblings in household	0.81	(0.22)	0.57	(0.26)	0.68	(0.22)	0.98	(0.35)
Caregiver reported depressive symptomatology (omitted=no)	0.94	(0.56)	1.08	(0.96)	0.69	(0.49)	1.68	(1.32)
Caregiver age	0.21 ***	(0.08)	0.15 ***	(0.08)	0.15 ***	(0.08)	0.12 **	(0.08)
Caregiver immigrant status (omitted=no)	0.53	(0.45)	0.55	(0.85)	0.33	(0.52)	0.28	(0.51)
Caregiver history of substance abuse (omitted=no)	0.76	(0.52)	1.11	(0.84)	0.66	(0.68)	0.18	(0.19)
Caregiver disability status (omitted=not disabled)	3.42	(2.73)	8.77 **	(6.47)	1.88	(1.65)	42.70 **	(56.00)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.74	(1.68)	5.20 *	(4.19)	2.68	(1.71)	3.47 *	(2.05)
Post–high school technical certificate or college degree	0.40	(0.28)	1.00	(0.91)	0.72	(0.73)	0.52	(0.41)
Caregiver married/partnered (omitted=not married/partnered)	3.53	(3.66)	13.90 *	(16.50)	11.20 *	(11.90)	11.60	(16.90)
Natural log of caregiver earnings (in dollars)	0.55	(0.42)	0.53	(0.52)	0.84	(0.35)	0.05	(0.09)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.30	(0.48)	0.24	(0.46)	0.94	(0.86)	2.20E-03	(0.01)
Household stressor scale	0.70	(0.18)	1.21	(0.51)	0.84	(0.26)	1.03	(0.33)
Household had health insurance (omitted=no)	0.84	(0.45)	0.20 *	(0.15)	0.33	(0.22)	1.93	(1.17)
Total number of moves from birth to diagnosis	0.60	(0.24)	0.59	(0.24)	0.80	(0.32)	0.82	(0.44)
Resided in conventional public housing (omitted=no)	0.51	(0.50)	0.72	(0.63)	1.18	(1.09)	2.26	(3.50)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.95	(0.48)	1.78	(1.50)	0.99	(0.81)	3.06	(2.98)
Social capital index	0.97	(0.25)	2.09 *	(0.74)	1.11	(0.28)	1.01	(0.41)
Social problems index	1.36	(0.55)	1.50	(0.63)	1.85	(0.79)	0.71	(0.48)
Social vulnerability score	0.20	(0.13)	2.11	(1.86)	0.33	(0.32)	0.45	(0.60)
Percentage African-American residents	0.44	(0.26)	1.25	(0.53)	1.27	(1.60)	0.16 *	(0.13)
Percentage Latino residents	1.11	(0.87)	4.05	(3.19)	4.51	(4.46)	0.14	(0.15)
Occupational prestige score	0.46	(0.23)	0.57	(0.39)	0.77	(0.60)	0.07 *	(0.08)
Percentage foreign-born residents	0.45	(0.33)	0.17 *	(0.13)	0.14 *	(0.12)	1.04	(0.62)
Percentage of residents who moved in preceding 12 months	1.38	(0.50)	1.75	(0.97)	1.94	(0.82)	1.38	(0.55)
Living in neighborhood with hospitals and clinics (omitted=no)	2.11	(1.57)	3.34	(3.90)	2.71	(2.59)	0.91	(0.76)
Resource factor score	0.57	(0.24)	0.41	(0.23)	0.59	(0.28)	0.50	(0.30)
Age of housing stock								

Percentage of housing built before 1940	0.69	(0.38)	1.81	(0.83)	0.93	(0.31)	1.63	(1.04)
Percentage of housing built between 1940–69	0.84	(0.38)	1.06	(0.61)	1.31	(0.72)	0.48	(0.30)
Violent crime rate per 1,000	1.72	(1.14)	0.09 **	(0.07)	0.35	(0.25)	0.46	(0.42)
Property crime rate per 1,000	4.92 ***	(1.92)	7.99 ***	(3.95)	6.67 ***	(3.02)	3.75 *	(2.48)
Child abuse and neglect rate per 1,000	0.28 **	(0.12)	0.09 ***	(0.05)	0.18 **	(0.11)	0.33 *	(0.14)
Neurological hazards index (rescaled by 100)	1.49	(0.63)	3.93	(3.11)	1.17	(0.39)	13.20 *	(14.90)
Respiratory hazards index	1.21	(0.60)	0.42	(0.29)	1.53	(0.72)	0.15 **	(0.10)
Number of observations	426		388		491		323	
Number of clusters	306		276		263		187	
Log likelihood	-77.63		-57.72		-71.33		-59.97	
Chi-square	83.90 ***		102.80 ***		83.90 ***		108.70 ***	
Pseudo-R^2	0.41		0.45		0.43		0.46	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-2. Standardized Cox models predicting hazard of childhood diagnosis of asthma by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					1.35	(0.60)	0.42 *	(0.18)
African American	4.33 ***	(1.76)	0.54	(0.40)				
First born in family (omitted=no)	0.58	(0.22)	0.42	(0.29)	0.26 **	(0.12)	0.66	(0.40)
Child was low birthweight or extremely premature (omitted=no)	3.14 *	(1.55)	2.32	(2.37)	5.75 **	(3.10)	0.46	(0.48)
Caregiver and household characteristics								
Number of siblings in household	0.65	(0.16)	0.52	(0.25)	0.40 *	(0.14)	0.73	(0.20)
Caregiver reported depressive symptomatology (omitted=no)	0.99	(0.43)	1.20	(0.90)	0.48	(0.29)	3.12	(1.83)
Caregiver age	0.11 ***	(0.04)	0.05 ***	(0.04)	0.04 ***	(0.02)	0.11 ***	(0.06)
Caregiver immigrant status (omitted=no)	0.84	(0.86)	2.06	(2.62)	1.66	(1.34)	2.85	(3.32)
Caregiver history of substance abuse (omitted=no)	1.37	(0.81)	1.66	(1.09)	0.73	(1.11)	0.48	(0.26)
Caregiver disability status (omitted=not disabled)	5.92 **	(3.39)	11.00 **	(8.69)	2.25	(1.50)	40.90 ***	(26.40)
Caregiver educational attainment (omitted=no degree)								
High school diploma	3.20 *	(1.56)	3.75	(2.95)	4.80 *	(3.73)	1.23	(0.71)
Post–high school technical certificate or college degree	0.47	(0.25)	1.22	(0.87)	1.62	(1.54)	0.27	(0.19)
Caregiver married/partnered (omitted=not married/partnered)	1.81	(1.73)	3.92	(3.48)	4.94	(4.78)	1.26	(1.03)
Natural log of caregiver earnings (in dollars)	0.32	(0.32)	0.30	(0.42)	1.45	(0.93)	0.29	(0.29)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.10	(0.20)	0.08	(0.24)	2.27	(2.92)	0.09	(0.19)
Household stressor scale	0.61 *	(0.14)	1.05	(0.38)	0.67	(0.18)	0.98	(0.28)
Household had health insurance (omitted=no)	0.63	(0.30)	0.56	(0.43)	0.37	(0.22)	1.14	(0.72)
Total number of moves from birth to diagnosis	0.35 **	(0.13)	0.33	(0.21)	0.36 **	(0.14)	0.33 *	(0.17)
Resided in conventional public housing (omitted=no)	0.81	(0.74)	1.12	(0.81)	2.81	(2.65)	4.03	(5.84)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.25	(0.58)	1.50	(1.09)	1.08	(0.74)	2.39	(1.94)
Social capital index	1.13	(0.21)	1.49	(0.61)	1.11	(0.31)	1.12	(0.29)
Social problems index	1.19	(0.37)	1.18	(0.42)	2.33	(1.02)	0.81	(0.37)
Social vulnerability score	0.19 *	(0.13)	0.92	(0.68)	0.19	(0.20)	0.69	(0.68)
Percentage African-American residents	0.30	(0.24)	0.80	(0.32)	0.11	(0.13)	0.41 *	(0.16)

Percentage Latino residents	0.71	(0.53)	0.64	(0.42)	2.61	(2.05)	0.26 *	(0.18)
Occupational prestige score	0.39 *	(0.15)	0.26	(0.19)	0.55	(0.47)	0.09 ***	(0.06)
Percentage foreign-born residents	0.55	(0.33)	0.28	(0.19)	0.10 **	(0.08)	0.75	(0.43)
Percentage of residents who moved in preceding 12 months	1.91	(0.83)	1.39	(0.66)	2.87 *	(1.50)	1.53	(0.52)
Living in neighborhood with hospitals and clinics (omitted=no)	1.64	(1.44)	0.91	(0.75)	2.00	(1.83)	1.36	(1.18)
Resource factor score	0.57	(0.23)	0.66	(0.34)	0.55	(0.23)	0.54	(0.32)
Age of housing stock								
Percentage of housing built before 1940	0.68	(0.30)	1.90	(0.69)	0.85	(0.24)	2.57	(1.35)
Percentage of housing built between 1940–69	0.99	(0.44)	1.09	(0.45)	1.16	(0.59)	0.79	(0.33)
Violent crime rate per 1,000	1.90	(1.24)	0.33	(0.19)	0.80	(0.30)	0.41	(0.26)
Property crime rate per 1,000	2.89 **	(1.04)	1.93	(1.04)	3.86 ***	(1.06)	1.54	(0.60)
Child abuse and neglect rate per 1,000	0.43 **	(0.14)	0.29	(0.25)	0.35 *	(0.18)	0.56	(0.19)
Neurological hazards index (rescaled by 100)	1.77	(0.62)	6.30 **	(4.25)	1.52	(0.40)	3.76 *	(2.42)
Respiratory hazards index	1.04	(0.51)	0.49	(0.33)	1.20	(0.50)	0.33 *	(0.16)
Number of observations	426		388		491		323	
Number of clusters	306		276		263		187	
Number of failures	40		30		35		35	
Time at risk	5337		4887		6234		3990	
Log likelihood	-152.29		-100.69		-120.68		-117.83	
Chi-square	299.30 ***		253.90 ***		258.30 ***		393.10 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-IV-3. Standardized logit models predicting childhood diagnosis of neurodevelopmental disorders by gender and ethnicity

	Male		Female[a]		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					0.21 **	(0.12)	0.52	(0.28)
African American	0.99	(0.48)						
First born in family (omitted=no)	0.39	(0.23)			0.39	(0.23)	0.52	(0.25)
Child was low birthweight or extremely premature (omitted=no)	1.71	(0.93)			0.97	(0.63)	3.37	(2.49)
Caregiver and household characteristics								
Number of siblings in household	0.75	(0.24)			0.80	(0.34)	0.43 **	(0.14)
Caregiver reported depressive symptomatology (omitted=no)	1.80	(1.07)			1.55	(1.28)	1.09	(0.92)
Caregiver age	0.33 ***	(0.10)			0.14 ***	(0.06)	0.46	(0.21)
Caregiver immigrant status (omitted=no)	1.52	(1.03)			2.70	(3.49)	0.22	(0.24)
Caregiver history of substance abuse (omitted=no)	1.43	(0.96)			3.61	(3.70)	1.17	(0.94)
Caregiver disability status (omitted=not disabled)	1.13	(0.91)			1.11	(1.31)	1.47	(1.86)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.93	(1.11)			1.70	(1.47)	2.64	(2.57)
Post–high school technical certificate or college degree	1.49	(1.04)			1.45	(1.23)	3.41	(3.51)
Caregiver married/partnered (omitted=not married/partnered)	1.36	(0.68)			1.63	(1.07)	0.66	(0.62)
Natural log of caregiver earnings (in dollars)	0.60	(0.37)			1.21	(0.71)	0.90	(0.45)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.37	(0.48)			0.89	(1.21)	0.51	(0.55)
Household stressor scale	0.76	(0.18)			0.87	(0.27)	1.31	(0.42)
Household had health insurance (omitted=no)	0.53	(0.31)			0.62	(0.54)	1.19	(0.79)
Total number of moves from birth to diagnosis	1.01	(0.33)			0.86	(0.37)	0.78	(0.33)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.06	(0.54)			0.63	(0.44)	1.59	(1.27)
Social capital index	0.82	(0.17)			0.72	(0.20)	1.19	(0.30)
Social problems index	1.45	(0.46)			1.81	(0.87)	1.00	(0.31)
Social vulnerability score	8.35 *	(8.60)			2.51	(2.30)	3.37	(4.05)
Percentage African-American residents	0.95	(0.31)			1.88	(1.07)	0.23 *	(0.17)

	Coef.	SE	Coef.	SE	Coef.	SE
Percentage Latino residents	1.37	(0.91)	3.17	(3.17)	0.21	(0.25)
Occupational prestige score	0.49	(0.26)	0.23 *	(0.13)	0.11 *	(0.11)
Percentage foreign-born residents	0.44	(0.23)	0.15 **	(0.10)	0.88	(0.54)
Percentage of residents who moved in preceding 12 months	0.69	(0.23)	1.88	(0.80)	0.84	(0.43)
Living in neighborhood with hospitals and clinics (omitted=no)	3.79 *	(2.49)	2.39	(2.08)	2.55	(2.22)
Resource factor score	0.64	(0.28)	1.28	(0.79)	0.28 **	(0.12)
Age of housing stock						
Percentage of housing built before 1940	0.79	(0.32)	0.52	(0.27)	1.93	(1.12)
Percentage of housing built between 1940–69	0.75	(0.22)	0.60	(0.25)	0.97	(0.39)
Violent crime rate per 1,000	0.08 **	(0.06)	0.03 ***	(0.03)	0.13 *	(0.12)
Property crime rate per 1,000	1.82	(0.74)	2.93 *	(1.27)	2.90	(2.23)
Child abuse and neglect rate per 1,000	0.36 *	(0.17)	0.34 *	(0.18)	0.41	(0.22)
Neurological hazards index (rescaled by 100)	1.88	(0.75)	2.36	(1.28)	7.65	(10.24)
Respiratory hazards index	0.87	(0.25)	0.82	(0.31)	0.34	(0.27)
Number of observations	438		503		338	
Number of clusters	309		258		189	
Log likelihood	-95.68		-66.03		-56.68	
Chi-square	69.74 ***		147.60 ***		111.20 ***	
Pseudo-R²	0.30		0.46		0.33	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Model for female stratum could not be estimated.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-4. Standardized AFT frailty models predicting timing of childhood diagnosis of neurodevelomental disorders by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					1.57 **	(0.24)	1.31 *	(0.17)
African American	0.96	(0.13)	0.68 ***	(0.05)				
First born in family (omitted=no)	1.84 ***	(0.30)	1.15	(0.08)	1.73 ***	(0.22)	1.48 **	(0.19)
Child was low birthweight or extremely premature (omitted=no)	0.75	(0.13)	0.56 ***	(0.05)	0.85	(0.14)	0.72	(0.14)
Caregiver and household characteristics								
Number of siblings in household	1.19 *	(0.10)	1.30 ***	(0.07)	1.13	(0.10)	1.42 ***	(0.13)
Caregiver reported depressive symptomatology (omitted=no)	0.83	(0.13)	1.43 ***	(0.09)	1.08	(0.17)	0.83	(0.12)
Caregiver age	2.03 ***	(0.18)	3.08 ***	(0.22)	2.62 ***	(0.24)	1.71 ***	(0.16)
Caregiver immigrant status (omitted=no)	0.94	(0.21)	0.48 ***	(0.08)	0.82	(0.20)	7.00 ***	(3.45)
Caregiver history of substance abuse (omitted=no)	0.76	(0.14)	0.81 ***	(0.04)	0.65 *	(0.14)	1.12	(0.20)
Caregiver disability status (omitted=not disabled)	0.82	(0.20)	0.96	(0.13)	0.74	(0.19)	0.59 *	(0.15)
Caregiver educational attainment (omitted=no degree)								
High school. diploma	0.83	(0.15)	0.77 ***	(0.05)	0.87	(0.19)	0.74	(0.14)
Post–high school technical certificate or college degree	0.74	(0.16)	0.77 ***	(0.06)	0.86	(0.17)	0.65 *	(0.14)
Caregiver married/partnered (omitted=not married/partnered)	1.07	(0.17)	0.91	(0.07)	1.09	(0.16)	1.16	(0.24)
Natural log of caregiver earnings (in dollars)	1.22	(0.22)	1.06	(0.04)	0.95	(0.12)	1.14	(0.16)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.25	(0.47)	1.13 *	(0.06)	0.94	(0.24)	1.17	(0.35)
Household stressor scale	1.10	(0.07)	1.07 *	(0.03)	1.00	(0.07)	0.98	(0.06)
Household had health insurance (omitted=no)	1.39	(0.24)	0.65 **	(0.09)	1.14	(0.19)	0.90	(0.15)
Total number of moves from birth to diagnosis	1.21	(0.14)	1.89 ***	(0.11)	1.24 *	(0.12)	1.39 **	(0.17)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.90	(0.15)	1.47 **	(0.21)	1.18	(0.20)	0.69 *	(0.13)
Social capital index	1.03	(0.07)	1.24 ***	(0.05)	1.12	(0.07)	0.90	(0.06)
Social problems index	0.87	(0.08)	0.94 *	(0.03)	0.89	(0.08)	1.04	(0.08)
Social vulnerability score	0.63	(0.20)	1.57 ***	(0.18)	1.07	(0.19)	0.66	(0.22)
Percentage African-American residents	1.07	(0.11)	0.88 **	(0.04)	0.85	(0.12)	1.50 **	(0.22)
Percentage Latino residents	0.84	(0.21)	0.70 ***	(0.07)	0.66	(0.15)	1.93 **	(0.45)
Occupational prestige score	1.20	(0.17)	2.60 ***	(0.25)	1.50 **	(0.20)	2.01 ***	(0.39)

Percentage foreign-born residents	1.32	(0.24)	1.92 ***	(0.21)	1.89 ***	(0.27)	0.81	(0.12)
Percentage of residents who moved in preceding 12 months	1.09	(0.11)	0.74 ***	(0.05)	0.79 *	(0.07)	1.12	(0.18)
Living in neighborhood with hospitals and clinics (omitted=no)	0.70	(0.14)	1.15	(0.12)	0.87	(0.19)	0.89	(0.18)
Resource factor score	1.03	(0.13)	0.67 ***	(0.05)	0.82	(0.12)	1.39 **	(0.16)
Age of housing stock								
Percentage of housing built before 1940	1.08	(0.11)	0.72 ***	(0.05)	1.16	(0.10)	0.75 *	(0.10)
Percentage of housing built between 1940–69	1.10	(0.11)	0.82 ***	(0.04)	1.19	(0.15)	0.83	(0.09)
Violent crime rate per 1,000	1.72 *	(0.42)	2.72 ***	(0.29)	2.02 ***	(0.33)	1.67 *	(0.39)
Property crime rate per 1,000	0.89	(0.11)	0.67 ***	(0.03)	0.83	(0.08)	0.84	(0.15)
Child abuse and neglect rate per 1,000	1.29 *	(0.16)	0.95	(0.05)	1.16	(0.12)	0.93	(0.10)
Neurological hazards index (rescaled by 100)	0.85	(0.09)	0.68 ***	(0.05)	0.88	(0.09)	0.65	(0.15)
Respiratory hazards index	1.04	(0.11)	0.92 *	(0.04)	0.97	(0.07)	1.30	(0.20)
Number of observations	438		403		503		338	
Number of clusters	309		281		258		189	
Number of failures	41		15		33		23	
Time at risk	5309		5054		6247		4116	
Sigma	0.69		0.08		0.55		0.49	
Log likelihood	-96.95		7.38		-65.02		-46.68	
Chi-square	385.00 ***		23510.80 ***		556.80 ***		--[a]	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

[a]An exact model chi-square value could not be estimated for the African-American stratum.

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-IV-5. Standardized logit models predicting childhood diagnosis of obesity by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					1.44	(0.76)	2.45	(1.56)
African American	0.57	(0.58)	1.30	(0.83)				
First born in family (omitted=no)	0.36	(0.37)	0.53	(0.34)	0.52	(0.28)	0.25	(0.29)
Caregiver and household characteristics								
Number of siblings in household	0.38 *	(0.18)	0.60	(0.19)	0.21 ***	(0.08)	1.21	(0.72)
Caregiver reported depressive symptomatology (omitted=no)	0.26	(0.31)	1.33	(0.93)	1.10	(0.72)	0.03 **	(0.03)
Caregiver age	0.24	(0.20)	0.32 **	(0.13)	0.26 *	(0.14)	0.02 *	(0.05)
Caregiver immigrant status (omitted=no)	1.26	(1.75)	7.36 *	(6.59)	6.33	(6.34)	0.24	(0.62)
Caregiver history of substance abuse (omitted=no)	1.84	(1.97)	0.32	(0.24)	0.35	(0.37)	4.08	(6.33)
Caregiver disability status (omitted=not disabled)	1.91	(1.50)	1.57	(1.28)	4.53	(4.54)	1.61	(3.36)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.05	(0.99)	0.81	(0.55)	1.26	(0.99)	1.13	(1.20)
Post–high school technical certificate or college degree	3.25	(4.25)	7.21 **	(5.07)	3.82	(3.28)	65.08 **	(87.06)
Caregiver married/partnered (omitted=not married/partnered)	48.73 *	(74.30)	45.38 ***	(38.27)	51.15 **	(61.75)	840.84	(2905.21)
Natural log of caregiver earnings (in dollars)	0.44	(0.23)	0.83	(0.38)	0.83	(0.54)	0.36	(0.58)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.18	(0.21)	1.16	(1.01)	0.61	(0.79)	0.04	(0.10)
Household stressor scale	1.49	(0.52)	1.75 *	(0.50)	1.41	(0.40)	2.63	(1.47)
Household had health insurance (omitted=no)	0.46	(0.37)	10.70	(14.97)	2.43	(1.69)	5.89	(7.50)
Total number of moves from birth to diagnosis	1.10	(0.72)	1.04	(0.34)	0.90	(0.29)	0.59	(0.42)
Resided in conventional public housing (omitted=no)	10.13	(14.61)	1.34	(0.96)	8.32	(9.71)	1.56	(1.72)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.92	(0.98)	0.41	(0.40)	0.52	(0.41)	0.02	(0.04)
Social capital index	1.05	(0.52)	1.69	(0.57)	1.84 *	(0.49)	1.05	(0.57)
Social problems index	0.79	(0.43)	1.19	(0.60)	0.95	(0.29)	2.82	(1.73)
Social vulnerability score	2.44	(3.16)	6.92	(9.50)	6.81	(8.33)	0.00 *	(0.01)
Percentage African-American residents	1.26	(0.56)	0.86	(0.52)	2.37	(1.35)	0.05 ***	(0.04)
Percentage Latino residents	1.16	(0.87)	0.50	(0.49)	2.52	(3.30)	0.02 **	(0.02)
Occupational prestige score	0.55	(0.59)	1.54	(1.14)	0.46	(0.31)	0.02 **	(0.02)
Percentage foreign-born residents	0.84	(0.44)	1.17	(0.66)	0.51	(0.33)	0.45	(0.38)
Percentage of residents who moved in preceding 12 months	0.45	(0.30)	0.65	(0.35)	0.52	(0.25)	2.06	(1.27)
Living in neighborhood with hospitals and clinics (omitted=no)	1.42	(1.54)	9.55 *	(8.49)	19.07 **	(19.40)	6.15 *	(5.69)
Resource factor score	3.04	(2.05)	0.26 **	(0.13)	0.74	(0.46)	0.68	(0.68)
Age of housing stock								

Percentage of housing built before 1940	0.80	(0.46)	2.54 *	(1.20)	2.22	(1.42)	1.12	(0.64)
Percentage of housing built between 1940–69	0.40	(0.22)	3.00 *	(1.59)	0.86	(0.77)	0.34	(0.19)
Violent crime rate per 1,000	0.41	(0.65)	0.38	(0.37)	0.15	(0.17)	2.92	(5.02)
Property crime rate per 1,000	1.37	(0.53)	0.73	(0.30)	1.11	(0.48)	5.75	(7.06)
Child abuse and neglect rate per 1,000	0.15	(0.15)	0.78	(0.51)	0.38	(0.30)	0.05	(0.12)
Neurological hazards index (rescaled by 100)	2.48	(1.27)	1.32	(0.97)	0.72	(0.73)	151.24 **	(250.60)
Respiratory hazards index	1.45	(0.95)	1.03	(0.60)	1.95	(0.97)	0.76	(0.98)
Number of observations	477		419		532		364	
Number of clusters	339		289		276		196	
Log likelihood	-49.53		-54.11		-62.68		-34.11	
Chi-square	90.55 ***		79.99 ***		108.10 ***		78.14 ***	
Pseudo-R²	0.40		0.41		0.41		0.50	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-6. Standardized Cox models predicting hazard of childhood diagnosis of obesity by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					1.42	(0.55)	2.19	(2.00)
African American	0.52	(0.67)	0.82	(0.54)				
First born in family (omitted=no)	0.10 *	(0.11)	0.51	(0.32)	0.34	(0.23)	0.17	(0.25)
Caregiver and household characteristics								
Number of siblings in household	0.46 **	(0.13)	0.61	(0.20)	0.21 ***	(0.09)	0.86	(0.50)
Caregiver reported depressive symptomatology (omitted=no)	0.04	(0.10)	1.06	(1.15)	0.41	(0.38)	0.01 **	(0.01)
Caregiver age	0.02 **	(0.02)	0.09 **	(0.07)	0.08 ***	(0.05)	0.00E+00 *	(0.01)
Caregiver immigrant status (omitted=no)	0.34	(0.46)	4.77	(4.84)	4.70	(4.08)	0.15	(0.17)
Caregiver history of substance abuse (omitted=no)	4.63	(5.59)	0.34	(0.20)	0.99	(1.02)	10.85	(26.11)
Caregiver disability status (omitted=not disabled)	8.83	(11.17)	1.66	(1.21)	4.40	(3.46)	14.06	(40.85)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.32	(1.30)	1.26	(1.23)	1.07	(0.73)	1.14	(1.92)
Post–high school technical certificate or college degree	3.39	(4.43)	14.95 **	(13.92)	3.11	(2.73)	142.07 **	(221.07)
Caregiver married/partnered (omitted=not married/partnered)	39.63 *	(71.41)	21.85 ***	(16.64)	7.36 *	(6.39)	555.98 *	(1687.47)
Natural log of caregiver earnings (in dollars)	0.20	(0.17)	1.01	(0.58)	1.09	(0.63)	0.29 *	(0.15)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.04	(0.07)	3.29	(3.86)	1.33	(1.58)	0.04 **	(0.05)
Household stressor scale	1.38	(0.40)	1.79	(0.54)	1.16	(0.29)	2.47	(1.29)
Household had health insurance (omitted=no)	0.33	(0.28)	16.39	(24.71)	1.30	(0.95)	4.91	(11.89)
Total number of moves from birth to diagnosis	0.37	(0.19)	0.60	(0.24)	0.77	(0.25)	0.03	(0.07)
Resided in conventional public housing (omitted=no)	10.42 **	(9.28)	2.51	(1.39)	8.99 *	(8.02)	3.76	(6.15)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.80	(0.59)	0.44	(0.41)	0.21	(0.19)	0.01	(0.02)
Social capital index	0.87	(0.23)	1.63	(0.54)	1.27	(0.33)	1.66	(1.36)
Social problems index	1.23	(0.51)	1.13	(0.42)	1.37	(0.52)	2.08	(1.05)
Social vulnerability score	0.59	(0.85)	6.25	(7.87)	3.74	(6.04)	0.01	(0.03)
Percentage African-American residents	1.57	(0.65)	0.92	(0.63)	2.22	(1.64)	0.04 **	(0.05)
Percentage Latino residents	1.46	(0.75)	0.60	(0.57)	3.17	(3.87)	0.01 *	(0.02)
Occupational prestige score	0.28	(0.23)	2.22	(2.42)	0.64	(0.57)	0.01	(0.02)
Percentage foreign-born residents	0.22 **	(0.11)	1.06	(0.55)	0.41	(0.29)	0.29	(0.29)
Percentage of residents who moved in preceding 12 months	0.83	(0.37)	0.77	(0.52)	0.82	(0.42)	0.55	(0.64)
Living in neighborhood with hospitals and clinics (omitted=no)	1.12	(1.79)	5.79 *	(4.55)	6.02 *	(4.53)	1.78	(2.68)
Resource factor score	1.95	(1.30)	0.47	(0.27)	0.76	(0.40)	0.78	(0.50)
Age of housing stock								
Percentage of housing built before 1940	1.03	(0.46)	2.18 *	(0.76)	1.10	(0.67)	1.84	(1.05)
Percentage of housing built between 1940–69	0.42 *	(0.18)	2.65 *	(1.01)	0.62	(0.49)	0.14 *	(0.12)

Violent crime rate per 1,000	0.38	(0.44)	0.49	(0.35)	0.22	(0.21)	2.64	(2.91)
Property crime rate per 1,000	0.93	(0.67)	0.62	(0.40)	0.71	(0.47)	2.28	(1.53)
Child abuse and neglect rate per 1,000	0.24	(0.22)	1.00	(0.54)	0.52	(0.42)	0.11	(0.20)
Neurological hazards index (rescaled by 100)	2.89	(2.08)	0.98	(0.79)	0.87	(0.88)	605.49 *	(1700.63)
Respiratory hazards index	2.65	(2.78)	1.02	(0.65)	1.78	(0.99)	0.16	(0.20)
Number of observations	477		419		532		364	
Number of clusters	339		289		276		196	
Number of failures	20		24		27		17	
Time at risk	5566		4992		6280		4278	
Log likelihood	-64.30		-83.77		-103.70		-45.61	
Chi-square	271.50 ***		310.80 ***		341.00 ***		189.20 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-IV-7. Standardized logit models predicting childhood diagnosis of internalizing behaviors by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)								
Child characteristics								
Female					0.61	(0.55)	1.60	(1.41)
African American	0.36	(0.38)	1.82	(2.14)				
First born in family (omitted=no)	1.05	(0.81)	0.35	(0.24)	0.47	(0.38)	0.16	(0.26)
Caregiver and household characteristics								
Number of siblings in household	2.35	(1.26)	0.72	(0.25)	0.12 *	(0.10)	3.44	(3.91)
Caregiver reported depressive symptomatology (omitted=no)	0.20	(0.22)	0.05	(0.09)	0.02 ***	(0.02)	0.25	(0.19)
Caregiver age	0.11 *	(0.10)	0.09 ***	(0.05)	0.03 ***	(0.03)	0.03	(0.09)
Caregiver immigrant status (omitted=no)	10.99	(16.25)	—ª	—ª	29.14 **	(37.20)	—ª	—ª
Caregiver history of substance abuse (omitted=no)	—ᵇ	—ᵇ	4.13	(4.26)	1.07	(3.76)	2.62	(4.37)
Caregiver educational attainment (omitted=no degree)								
High school diploma	44.24 *	(80.80)	14.20	(19.40)	13.75 *	(17.43)	90.85	(246.58)
Post–high school technical certificate or college degree	22.54 *	(31.06)	2.37	(3.81)	5.70	(9.00)	113.67 *	(261.12)
Caregiver married/partnered (omitted=not married/partnered)	9.84 *	(10.38)	69.63 ***	(84.96)	12.18	(16.16)	105.19	(272.57)
Natural log of caregiver earnings (in dollars)	0.36	(0.27)	2.74	(2.75)	2.33	(2.63)	2.07	(1.89)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.37	(0.56)	3.35	(5.98)	4.07	(10.01)	32.92	(72.92)
Household stressor scale	3.29 **	(1.41)	1.43	(0.58)	1.54	(1.15)	6.67	(8.04)
Household had health insurance (omitted=no)	51.88 *	(92.02)	2.22	(3.87)	382.30 ***	(655.98)	0.04	(0.10)
Total number of moves from birth to diagnosis	2.14	(0.88)	0.84	(0.33)	1.95	(1.01)	0.90	(0.30)
Neighborhood characteristics								
Social capital index	0.90	(0.52)	1.59	(1.08)	1.06	(0.43)	0.92	(0.43)
Social problems index	5.02 **	(2.75)	1.31	(0.80)	4.03 *	(2.54)	1.99	(1.19)
Social vulnerability score	0.48	(0.75)	0.24 **	(0.13)	0.23	(0.46)	0.09	(0.13)
Percentage African-American residents	1.39	(1.10)	2.08	(1.47)	83.45 **	(112.34)	1.55	(1.20)
Percentage Latino residents	2.44	(2.05)	4.12	(7.29)	56.45 **	(77.38)	2.31	(3.46)
Occupational prestige score	0.76	(0.67)	0.49	(0.59)	1.12	(0.83)	0.15 *	(0.12)
Percentage foreign-born residents	0.24	(0.25)	0.46	(0.65)	0.03 **	(0.04)	2.48	(2.26)
Percentage of residents who moved in preceding 12 months	1.14	(0.88)	1.80	(0.71)	0.52	(0.45)	3.89	(5.25)
Resource factor score	4.71 *	(3.55)	0.20 ***	(0.08)	2.53	(3.09)	0.24	(0.18)
Violent crime rate per 1,000	1.52	(2.22)	0.95	(0.94)	0.48	(0.56)	0.50	(0.44)
Property crime rate per 1,000	4.58 *	(3.39)	5.96	(6.51)	11.38 ***	(8.03)	41.98	(98.38)
Child abuse and neglect rate per 1,000	0.14 **	(0.10)	0.41	(0.29)	0.07 ***	(0.06)	1.06	(0.67)

Number of observations	374	317	412	279
Number of clusters	276	226	231	164
Log likelihood	-31.41	-28.65	-28.64	-22.24
Chi-square	68.98 ***	115.20 ***	68.93 ***	34.12
Pseudo-R²	0.55	0.50	0.58	0.62

Notes:

Exponentiated coefficients; robust standard errors in parentheses. Internalizing behaviors are defined to include diagnoses of depressive disorders, PTSD, and other anxiety disorders.

[a]Caregiver immigrant status was excluded from the analysis in the female and African-American strata because it was perfectly predictive.

[b]Caregiver history of substance use was excluded from the analysis in the male stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-8. Standardized AFT frailty models predicting timing of childhood diagnosis of internalizing behaviors by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of diagnosis unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.13	(0.07)	0.96	(0.11)
African American	0.98	(0.14)	1.03	(0.16)				
First born in family (omitted=no)	1.14	(0.15)	1.44 ***	(0.13)	1.30 ***	(0.08)	1.48 **	(0.18)
Caregiver and household characteristics								
Number of siblings in household	0.92	(0.07)	0.99	(0.05)	1.29 ***	(0.08)	0.89	(0.06)
Caregiver reported depressive symptomatology (omitted=no)	1.32	(0.21)	1.97 **	(0.42)	1.41 **	(0.15)	1.39	(0.25)
Caregiver age	1.73 ***	(0.20)	1.98 ***	(0.18)	1.77 ***	(0.09)	2.01 ***	(0.26)
Caregiver immigrant status (omitted=no)	0.81	(0.12)	11.40 ***	(5.89)	0.76 **	(0.08)	2.54	(1.63)
Caregiver history of substance abuse (omitted=no)	7.89 ***	(3.11)	0.65 *	(0.12)	0.77	(0.12)	0.99	(0.20)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.62 **	(0.11)	0.72	(0.15)	0.71 ***	(0.07)	0.54 **	(0.12)
Post–high school technical certificate or college degree	0.59 *	(0.14)	0.98	(0.22)	0.73 **	(0.07)	0.53	(0.17)
Caregiver married/partnered (omitted=not married/partnered)	0.77	(0.12)	0.46 ***	(0.07)	0.96	(0.08)	0.55 **	(0.12)
Natural log of caregiver earnings (in dollars)	1.36 *	(0.20)	0.81	(0.10)	0.93	(0.05)	0.95	(0.12)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.46	(0.44)	0.66 *	(0.14)	0.92	(0.11)	0.56 *	(0.14)
Household stressor scale	0.82 ***	(0.04)	0.96	(0.05)	1.02	(0.05)	0.75 ***	(0.06)
Household had health insurance (omitted=no)	0.57 **	(0.12)	1.24	(0.17)	0.59 ***	(0.06)	1.70 **	(0.28)
Total number of moves from birth to diagnosis	0.99	(0.06)	1.05	(0.07)	1.03	(0.03)	1.03	(0.09)
Neighborhood characteristics								
Social capital index	0.96	(0.06)	0.96	(0.06)	0.97	(0.03)	1.03	(0.08)
Social problems index	0.80 ***	(0.04)	0.93	(0.05)	0.88 ***	(0.03)	0.92	(0.06)
Social vulnerability score	0.98	(0.19)	1.37 **	(0.17)	1.20	(0.15)	1.47 *	(0.23)
Percentage African-American residents	0.96	(0.09)	0.83 *	(0.07)	0.54 ***	(0.05)	0.95	(0.13)
Percentage Latino residents	0.88	(0.13)	0.86	(0.13)	0.53 ***	(0.06)	1.06	(0.27)
Occupational prestige score	1.09	(0.13)	1.05	(0.12)	0.98	(0.08)	1.49 **	(0.22)
Percentage foreign-born residents	1.17	(0.19)	1.02	(0.13)	1.72 ***	(0.14)	0.70	(0.13)
Percentage of residents who moved in preceding 12 months	0.98	(0.12)	0.87 *	(0.05)	1.07	(0.07)	0.86	(0.11)
Resource factor score	0.80 *	(0.08)	1.29 ***	(0.09)	0.97	(0.06)	1.22	(0.19)

Violent crime rate per 1,000	1.00	(0.15)	0.99	(0.10)	1.16	(0.10)	1.01	(0.10)
Property crime rate per 1,000	0.78 *	(0.08)	0.72 *	(0.09)	0.74 ***	(0.04)	0.57 **	(0.11)
Child abuse and neglect rate per 1,000	1.40 ***	(0.14)	1.19	(0.11)	1.35 ***	(0.09)	0.90	(0.09)
Number of observations	374		317		412		279	
Number of clusters	276		226		231		164	
Number of failures	17		14		16		15	
Time at risk	5430		4683		6057		4056	
Sigma	0.42		0.31		0.16		0.43	
Log likelihood	-28.55		-19.25		-7.80		-24.65	
Chi-square	302.80 ***		232.80 ***		1685.50 ***		227.80 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio; internalizing behaviors defined to include diagnoses of depressive disorders, PTSD, and other anxiety disorders

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-9. Standardized logit models predicting childhood behavioral health service use by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					1.10	(0.43)	0.25 *	(0.17)
African American	4.20 **	(2.29)	1.24	(0.75)				
First born in family (omitted=no)	0.32	(0.23)	0.55	(0.27)	0.51	(0.23)	0.36	(0.22)
Caregiver and household characteristics								
Number of siblings in household	1.21	(0.31)	0.65	(0.19)	0.66	(0.18)	0.88	(0.50)
Caregiver reported depressive symptomatology (omitted=no)	1.33	(0.99)	1.22	(0.62)	2.44	(1.22)	2.09	(2.32)
Caregiver age	0.09 ***	(0.06)	0.21 *	(0.16)	0.27 **	(0.13)	0.02 ***	(0.01)
Caregiver immigrant status (omitted=no)	1.33	(0.92)	1.30	(1.04)	1.19	(0.70)	299.25 **	(583.60)
Caregiver history of substance abuse (omitted=no)	0.22	(0.20)	0.39	(0.30)	0.26	(0.21)	0.10	(0.15)
Caregiver disability status (omitted=not disabled)	3.76	(3.49)	8.90 *	(9.62)	1.17	(0.90)	72.55 **	(97.83)
Caregiver educational attainment (omitted=no degree)								
High school diploma	4.10 *	(2.82)	2.39	(1.26)	1.89	(1.04)	31.03 **	(39.21)
Post–high school technical certificate or college degree	2.81	(2.14)	0.98	(0.64)	1.76	(1.09)	4.06	(4.46)
Caregiver married/partnered (omitted=not married/partnered)	9.00 **	(6.61)	10.67 **	(8.56)	6.15 ***	(3.05)	30.62 *	(42.28)
Natural log of caregiver earnings (in dollars)	0.51	(0.26)	4.88 **	(2.73)	1.28	(0.52)	5.37 *	(4.14)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.48	(0.49)	4.78 *	(3.47)	0.99	(0.66)	2.96	(4.72)
Household stressor scale	1.67	(0.57)	1.10	(0.36)	1.12	(0.40)	1.26	(0.58)
Household had health insurance (omitted=no)	0.81	(0.56)	3.18	(2.38)	1.44	(0.85)	0.30	(0.37)
Total number of moves from birth to onset	0.49 *	(0.15)	1.06	(0.20)	1.01	(0.20)	0.55	(0.22)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.94	(0.63)	2.49	(1.68)	1.50	(0.98)	10.94	(14.44)
Social capital index	0.83	(0.24)	0.77	(0.19)	0.91	(0.19)	0.75	(0.29)
Social problems index	0.91	(0.29)	0.96	(0.24)	1.23	(0.35)	0.57	(0.26)
Social vulnerability score	0.13 ***	(0.08)	0.26	(0.20)	0.62	(0.42)	0.12	(0.15)
Percentage African-American residents	1.19	(0.42)	0.72	(0.28)	0.88	(0.49)	0.42	(0.28)
Percentage Latino residents	1.53	(1.15)	0.61	(0.43)	1.30	(0.77)	0.09	(0.12)
Occupational prestige score	0.10 ***	(0.06)	0.19 **	(0.11)	0.37	(0.20)	0.02 **	(0.03)
Percentage foreign-born residents	0.13 **	(0.08)	0.34 *	(0.19)	0.33 *	(0.16)	0.38	(0.26)
Percentage of residents who moved in preceding 12 months	1.62	(0.41)	2.10 *	(0.70)	1.43	(0.40)	4.27 ***	(1.76)
Living in neighborhood with hospitals and clinics (omitted=no)	0.59	(0.43)	0.90	(0.61)	2.51	(1.45)	0.10 *	(0.12)
Resource factor score	1.90	(0.95)	0.37 *	(0.16)	1.00	(0.36)	0.41	(0.21)
Percentage of housing built before 1940	1.60	(0.49)	1.19	(0.37)	1.12	(0.31)	1.31	(0.79)
Violent crime rate per 1,000	0.62	(0.40)	0.53	(0.26)	0.54	(0.39)	0.14 **	(0.09)

	(1)		(2)		(3)		(4)	
Property crime rate per 1,000	3.55 *	(1.78)	1.22	(0.68)	1.88	(0.73)	4.86 *	(3.86)
Child abuse and neglect rate per 1,000	0.24 *	(0.15)	1.67	(0.88)	0.38	(0.26)	0.54	(0.24)
Neurological hazards index (rescaled by 100)	1.43	(0.54)	4.48 *	(3.33)	1.23	(0.44)	149.02 **	(252.81)
Respiratory hazards index	1.96	(0.74)	0.76	(0.40)	1.36	(0.41)	0.14	(0.17)
Number of observations	308		276		355		229	
Number of clusters	234		205		214		140	
Log likelihood	-76.50		-72.49		-102.80		-43.08	
Chi-square	48.23 *		67.08 ***		55.80 **		86.43 ***	
Pseudo-R^2	0.45		0.39		0.29		0.62	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IV-10. Standardized Cox models predicting hazard of childhood behavioral health service use by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.85	(0.28)	0.44	(0.20)
African American	4.42 **	(2.43)	1.20	(0.58)				
First born in family (omitted=no)	0.22 ***	(0.10)	0.71	(0.25)	0.32 *	(0.14)	0.40 **	(0.13)
Caregiver and household characteristics								
Number of siblings in household	0.95	(0.23)	0.82	(0.21)	0.58 *	(0.15)	1.09	(0.30)
Caregiver reported depressive symptomatology (omitted=no)	0.79	(0.44)	0.94	(0.60)	1.73	(0.73)	1.48	(1.26)
Caregiver age	0.07 ***	(0.03)	0.16 ***	(0.09)	0.13 ***	(0.07)	0.07 ***	(0.03)
Caregiver immigrant status (omitted=no)	0.78	(0.35)	1.60	(1.33)	1.28	(0.52)	10.67 **	(9.11)
Caregiver history of substance abuse (omitted=no)	0.48	(0.26)	0.81	(0.63)	0.63	(0.46)	0.87	(0.63)
Caregiver disability status (omitted=not disabled)	4.21 *	(2.61)	3.45	(2.48)	0.93	(0.50)	15.17 **	(14.04)
Caregiver educational attainment (omitted=no degree)								
High school diploma	3.20	(1.94)	1.96	(1.22)	1.82	(0.77)	4.34	(4.00)
Post–high school technical certificate or college degree	2.63	(1.55)	1.78	(1.26)	2.59	(1.34)	1.55	(1.55)
Caregiver married/partnered (omitted=not married/partnered)	2.83	(1.52)	3.89 *	(2.60)	2.20	(0.95)	6.19 **	(3.64)
Natural log of caregiver earnings (in dollars)	0.69	(0.28)	4.00 **	(1.75)	1.48	(0.57)	3.18 **	(1.41)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.64	(0.55)	6.19 *	(4.49)	1.53	(1.01)	3.39	(2.52)
Household stressor scale	1.32	(0.31)	1.28	(0.36)	1.18	(0.32)	1.62	(0.65)
Household had health insurance (omitted=no)	0.65	(0.29)	3.18	(2.55)	1.34	(0.67)	0.29	(0.20)
Total number of moves from birth to onset	0.50 ***	(0.10)	0.79	(0.13)	0.97	(0.17)	0.44 **	(0.12)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.30	(0.89)	1.71	(1.00)	0.91	(0.53)	1.40	(1.06)
Social capital index	0.89	(0.21)	0.84	(0.24)	0.89	(0.14)	0.82	(0.15)
Social problems index	0.91	(0.26)	0.92	(0.21)	1.51	(0.40)	0.76	(0.20)
Social vulnerability score	0.08 ***	(0.05)	0.69	(0.31)	0.48	(0.29)	0.33	(0.21)
Percentage African-American residents	0.81	(0.24)	0.69	(0.29)	0.93	(0.49)	0.50	(0.25)
Percentage Latino residents	0.93	(0.65)	0.50	(0.34)	1.65	(0.76)	0.29	(0.22)
Occupational prestige score	0.08 ***	(0.04)	0.35 *	(0.16)	0.37	(0.21)	0.11 **	(0.08)
Percentage foreign-born residents	0.18 **	(0.10)	0.50	(0.23)	0.30 **	(0.14)	0.19 *	(0.14)
Percentage of residents who moved in preceding 12 months	1.46 *	(0.28)	1.70	(0.53)	1.50	(0.36)	2.13 **	(0.55)
Living in neighborhood with hospitals and clinics (omitted=no)	0.64	(0.39)	1.50	(0.97)	2.05	(1.30)	0.44	(0.30)
Resource factor score	1.39	(0.51)	0.51	(0.19)	0.97	(0.31)	0.99	(0.42)
Percentage of housing built before 1940	1.76	(0.59)	0.89	(0.22)	1.00	(0.25)	1.40	(0.57)

Violent crime rate per 1,000	1.25	(0.65)	0.49 *	(0.15)	0.53	(0.34)	0.32 *	(0.15)
Property crime rate per 1,000	2.02 *	(0.71)	1.06	(0.38)	1.70	(0.47)	1.31	(0.44)
Child abuse and neglect rate per 1,000	0.53	(0.23)	1.36	(0.45)	0.51	(0.30)	1.00	(0.29)
Neurological hazards index (rescaled by 100)	1.32	(0.42)	3.95 *	(2.26)	1.33	(0.41)	28.80 ***	(28.88)
Respiratory hazards index	1.56	(0.36)	0.76	(0.34)	1.26	(0.30)	0.23 **	(0.13)
Number of observations	308		276		355		229	
Number of clusters	234		205		214		140	
Number of failures	51		43		50		44	
Time at risk	4178		3794		4913		3059	
Log likelihood	-201.10		-169.80		-216.30		-149.80	
Chi-square	213.80 ***		188.80 ***		214.70 ***		409.20 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-1. Standardized logit models predicting witnessing neighborhood violence during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.99	(0.27)	0.81	(0.35)
African American	1.49	(0.61)	2.07	(0.96)				
First born in family (omitted=no)	0.74	(0.27)	0.74	(0.28)	0.89	(0.31)	0.84	(0.34)
Caregiver and household characteristics								
Number of siblings in household	0.69	(0.17)	0.71 *	(0.12)	0.72	(0.15)	0.59 *	(0.16)
Caregiver reported depressive symptomatology (omitted=no)	1.91	(0.82)	1.26	(0.65)	2.05	(0.95)	0.94	(0.81)
Caregiver age	0.34 ***	(0.10)	0.23 ***	(0.06)	0.30 ***	(0.08)	0.22 ***	(0.09)
Caregiver immigrant status (omitted=no)	1.33	(0.78)	2.10	(1.19)	2.08	(1.12)	0.04 *	(0.05)
Caregiver history of substance abuse (omitted=no)	0.80	(0.37)	0.63	(0.30)	0.78	(0.42)	0.76	(0.50)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.37	(0.61)	0.73	(0.31)	1.26	(0.52)	0.84	(0.74)
Post–high school technical certificate or college degree	0.96	(0.47)	1.19	(0.60)	1.08	(0.59)	0.89	(0.84)
Caregiver married/partnered (omitted=not married/partnered)	1.99	(0.75)	1.17	(0.46)	1.49	(0.57)	5.91 **	(3.78)
Natural log of caregiver earnings (in dollars)	1.26	(0.35)	1.10	(0.48)	1.16	(0.36)	1.95	(1.19)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.89	(0.50)	1.07	(0.95)	0.80	(0.50)	2.05	(2.18)
Household stressor scale	1.35	(0.24)	1.29	(0.23)	1.25	(0.24)	1.61 *	(0.38)
Household had health insurance (omitted=no)	1.62	(0.71)	1.23	(0.58)	0.93	(0.44)	2.10	(1.30)
Total number of moves from birth to first occurrence	0.96	(0.17)	0.94	(0.19)	0.83	(0.13)	0.77	(0.18)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	2.75 *	(1.20)	1.05	(0.53)	1.24	(0.55)	4.14 *	(2.43)
Social capital index	0.88	(0.14)	1.39	(0.24)	0.89	(0.14)	1.59 *	(0.37)
Social problems index	1.56	(0.40)	3.15 ***	(0.87)	2.93 ***	(0.74)	1.48	(0.48)
Social vulnerability score	0.56	(0.30)	0.34 *	(0.15)	0.35	(0.20)	0.38	(0.34)
Percentage African-American residents	0.87	(0.23)	0.49 *	(0.17)	0.75	(0.31)	0.49	(0.18)
Percentage Latino residents	0.50	(0.24)	0.31 *	(0.15)	0.76	(0.35)	0.22 *	(0.16)
Occupational prestige score	0.18 ***	(0.07)	0.19 ***	(0.08)	0.18 ***	(0.07)	0.11 **	(0.08)

Percentage foreign-born residents	0.80	(0.28)	0.96	(0.36)	0.76	(0.26)	0.51	(0.24)
Percentage of residents who moved in preceding 12 months	1.00	(0.25)	1.07	(0.29)	1.17	(0.29)	0.72	(0.25)
Resource factor score	1.26	(0.35)	1.65	(0.50)	1.45	(0.40)	0.91	(0.39)
Percentage of housing built before 1940	1.61 *	(0.37)	1.69 *	(0.37)	1.20	(0.23)	3.45 ***	(1.26)
Violent crime rate per 1,000	0.44	(0.22)	0.55	(0.23)	0.49	(0.25)	0.34	(0.29)
Property crime rate per 1,000	5.32 ***	(1.89)	11.15 ***	(4.11)	7.51 ***	(2.69)	26.54 ***	(17.76)
Child abuse and neglect rate per 1,000	0.66	(0.16)	0.31 ***	(0.10)	0.50 *	(0.15)	0.28 **	(0.12)
Number of observations	403		378		492		289	
Number of clusters	277		259		240		165	
Log likelihood	-155.30		-143.70		-186.50		-93.64	
Chi-square	110.80 ***		128.80 ***		133.00 ***		91.45 ***	
Pseudo-R^2	0.40		0.44		0.41		0.524	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-2. Standardized AFT frailty models predicting timing of witnessing neighborhood violence during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					0.95	(0.05)	0.99	(0.08)
African American	0.91	(0.08)	0.86	(0.07)				
First born in family (omitted=no)	1.34 ***	(0.10)	1.38 ***	(0.10)	1.31 ***	(0.08)	1.35 ***	(0.10)
Caregiver and household characteristics								
Number of siblings in household	1.10 *	(0.05)	1.10 *	(0.04)	1.06	(0.05)	1.16 **	(0.06)
Caregiver reported depressive symptomatology (omitted=no)	0.90	(0.09)	0.85 *	(0.07)	0.83 *	(0.08)	0.89	(0.10)
Caregiver age	1.64 ***	(0.10)	1.73 ***	(0.10)	1.69 ***	(0.09)	1.66 ***	(0.11)
Caregiver immigrant status (omitted=no)	0.89	(0.13)	0.81	(0.10)	0.82	(0.09)	1.24	(0.35)
Caregiver history of substance abuse (omitted=no)	1.17	(0.11)	0.88	(0.10)	1.06	(0.14)	1.00	(0.11)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.89	(0.08)	0.94	(0.08)	0.91	(0.08)	0.86	(0.09)
Post–high school technical certificate or college degree	0.98	(0.10)	0.86	(0.08)	0.95	(0.11)	0.84	(0.09)
Caregiver married/partnered (omitted=not married/partnered)	1.00	(0.08)	0.98	(0.07)	1.04	(0.08)	0.85	(0.09)
Natural log of caregiver earnings (in dollars)	1.02	(0.07)	1.01	(0.09)	1.03	(0.07)	0.96	(0.09)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.02	(0.13)	0.92	(0.16)	1.03	(0.14)	0.93	(0.17)
Household stressor scale	0.97	(0.03)	0.95	(0.03)	0.99	(0.04)	0.90 **	(0.04)
Household had health insurance (omitted=no)	0.75 **	(0.07)	0.88	(0.08)	0.89	(0.08)	0.74 **	(0.07)
Total number of moves from birth to first occurrence	1.25 ***	(0.06)	1.37 ***	(0.07)	1.34 ***	(0.07)	1.33 ***	(0.08)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.89	(0.08)	1.04	(0.10)	1.00	(0.09)	0.79 *	(0.08)
Social capital index	0.99	(0.04)	1.00	(0.04)	1.03	(0.04)	0.96	(0.04)
Social problems index	0.90 *	(0.04)	0.80 ***	(0.04)	0.80 ***	(0.04)	0.99	(0.05)
Social vulnerability score	0.94	(0.11)	1.15	(0.10)	1.22 *	(0.12)	0.90	(0.09)
Percentage African-American residents	1.01	(0.07)	1.13 *	(0.06)	1.17	(0.12)	1.08	(0.07)
Percentage Latino residents	1.15	(0.12)	1.22 *	(0.12)	1.05	(0.11)	1.33 *	(0.17)
Occupational prestige score	1.23 **	(0.09)	1.29 **	(0.11)	1.25 **	(0.09)	1.26 *	(0.13)

Percentage foreign-born residents	1.01	(0.08)	1.05	(0.07)	1.13	(0.08)	0.94	(0.09)
Percentage of residents who moved in preceding 12 months	0.99	(0.05)	0.97	(0.05)	0.91 *	(0.04)	1.02	(0.07)
Resource factor score	1.00	(0.05)	0.91 *	(0.04)	0.92	(0.04)	1.03	(0.06)
Percentage of housing built before 1940	0.97	(0.05)	0.96	(0.04)	0.99	(0.04)	0.91	(0.06)
Violent crime rate per 1,000	1.12	(0.09)	1.05	(0.07)	1.00	(0.07)	1.06	(0.09)
Property crime rate per 1,000	0.91	(0.06)	0.78 ***	(0.05)	0.81 ***	(0.05)	0.93	(0.09)
Child abuse and neglect rate per 1,000	1.03	(0.05)	1.11	(0.07)	1.09	(0.06)	1.01	(0.06)
Number of observations	403		378		492		289	
Number of clusters	277		259		240		165	
Number of failures	139		151		168		122	
Time at risk	4096		3913		5183		2826	
Sigma	0.46		0.44		0.46		0.42	
Log likelihood	-154.40		-149.70		-186.50		-108.30	
Chi-square	316.10 ***		435.90 ***		475.80 ***		247.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-V-3. Standardized logit models predicting ever being victimized in neighborhood during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.36 *	(0.14)	0.21 ***	(0.09)
African American	1.88	(0.79)	2.22	(1.10)				
First born in family (omitted=no)	0.97	(0.33)	0.92	(0.54)	1.14	(0.40)	0.86	(0.40)
Caregiver and household characteristics								
Number of siblings in household	1.05	(0.23)	0.70	(0.27)	0.78	(0.19)	0.94	(0.28)
Caregiver reported depressive symptomatology (omitted=no)	0.57	(0.25)	1.32	(0.98)	1.09	(0.64)	0.36	(0.20)
Caregiver age	0.34 ***	(0.09)	0.15 ***	(0.08)	0.22 ***	(0.08)	0.28 ***	(0.11)
Caregiver immigrant status (omitted=no)	1.47	(0.93)	9.93 *	(10.26)	3.81	(2.61)	0.53	(1.10)
Caregiver history of substance abuse (omitted=no)	0.69	(0.38)	0.11 *	(0.10)	1.18	(0.89)	0.26	(0.18)
Caregiver educational attainment (omitted=no degree)								
High school. diploma	1.37	(0.59)	6.80 **	(4.87)	1.29	(0.73)	4.13 *	(2.72)
Post–high school technical certificate or college degree	0.63	(0.31)	6.35 **	(3.76)	1.77	(0.93)	1.07	(0.85)
Caregiver married/partnered (omitted=not married/partnered)	1.31	(0.49)	4.03 *	(2.24)	1.53	(0.61)	2.96	(1.77)
Natural log of caregiver earnings (in dollars)	1.27	(0.49)	0.20	(0.20)	0.62	(0.31)	2.65	(1.44)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.71	(0.53)	0.01 *	(0.02)	0.24	(0.23)	2.26	(2.36)
Household stressor scale	1.65 **	(0.27)	0.82	(0.29)	1.26	(0.27)	1.67 *	(0.34)
Household had health insurance (omitted=no)	1.50	(0.60)	2.19	(1.59)	1.38	(0.74)	1.76	(1.19)
Total number of moves from birth to first occurrence	1.42 *	(0.22)	1.53	(0.39)	1.49 *	(0.27)	1.30	(0.28)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	2.93 *	(1.53)	5.25	(5.65)	1.24	(0.75)	14.26 ***	(10.61)
Social capital index	0.86	(0.15)	1.81	(0.58)	0.89	(0.19)	1.24	(0.32)
Social problems index	1.93 **	(0.48)	1.32	(0.62)	2.24 **	(0.63)	1.04	(0.28)
Social vulnerability score	0.24 **	(0.12)	2.22	(2.21)	0.42	(0.35)	0.47	(0.27)
Percentage African-American residents	1.33	(0.34)	0.55	(0.33)	1.07	(0.44)	1.29	(0.63)
Percentage Latino residents	1.43	(0.76)	0.48	(0.47)	0.80	(0.49)	1.51	(1.53)
Occupational prestige score	0.31 **	(0.12)	0.40	(0.35)	0.23 **	(0.12)	0.49	(0.23)

Percentage foreign-born residents	0.33 *	(0.14)	0.99	(0.59)	0.57	(0.29)	0.40	(0.29)
Percentage of residents who moved in preceding 12 months	1.32	(0.27)	1.16	(0.50)	1.10	(0.27)	1.75 *	(0.49)
Resource factor score	0.87	(0.23)	0.44	(0.21)	0.66	(0.21)	0.67	(0.26)
Percentage of housing built before 1940	1.59 *	(0.37)	1.59	(0.66)	1.37	(0.36)	1.74	(0.57)
Violent crime rate per 1,000	0.60	(0.25)	0.27	(0.22)	0.39	(0.34)	0.56	(0.23)
Property crime rate per 1,000	5.06 ***	(1.56)	8.37 ***	(3.89)	6.95 ***	(2.97)	6.01 ***	(2.77)
Child abuse and neglect rate per 1,000	0.61 *	(0.15)	0.19 ***	(0.08)	0.56	(0.17)	0.35 **	(0.13)
Number of observations	490		442		572		360	
Number of clusters	330		301		274		187	
Log likelihood	-132.00		-64.62		-109.40		-87.98	
Chi-square	95.21 ***		92.04 ***		115.90 ***		80.09 ***	
Pseudo-R²	0.37		0.41		0.36		0.42	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-4. Standardized AFT frailty models predicting timing of neighborhood victimization during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.21 **	(0.08)	1.33 **	(0.14)
African American	0.83 *	(0.07)	0.87	(0.09)				
First born in family (omitted=no)	1.23 **	(0.09)	1.22 *	(0.12)	1.13 *	(0.06)	1.23 *	(0.11)
Caregiver and household characteristics								
Number of siblings in household	1.07	(0.05)	1.14 *	(0.07)	1.13 **	(0.05)	1.12	(0.06)
Caregiver reported depressive symptomatology (omitted=no)	1.08	(0.10)	0.89	(0.11)	0.95	(0.09)	1.16	(0.13)
Caregiver age	1.62 ***	(0.11)	1.89 ***	(0.16)	1.68 ***	(0.10)	1.71 ***	(0.16)
Caregiver immigrant status (omitted=no)	0.90	(0.12)	0.60 ***	(0.09)	0.75 **	(0.08)	0.90	(0.32)
Caregiver history of substance abuse (omitted=no)	1.09	(0.12)	1.19	(0.19)	0.96	(0.11)	1.28	(0.18)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.92	(0.08)	0.71 **	(0.09)	0.96	(0.09)	0.63 ***	(0.09)
Post–high school technical certificate or college degree	1.06	(0.10)	0.69 **	(0.08)	0.86	(0.07)	0.84	(0.13)
Caregiver married/partnered (omitted=not married/partnered)	1.03	(0.08)	0.81 *	(0.07)	1.02	(0.07)	0.94	(0.09)
Natural log of caregiver earnings (in dollars)	0.96	(0.08)	1.44	(0.32)	1.09	(0.09)	0.76 **	(0.07)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.04	(0.17)	2.67 *	(1.15)	1.27	(0.23)	0.72	(0.13)
Household stressor scale	0.96	(0.03)	1.03	(0.06)	1.00	(0.04)	0.98	(0.04)
Household had health insurance (omitted=no)	0.95	(0.08)	0.82	(0.14)	0.96	(0.08)	0.92	(0.12)
Total number of moves from birth to first occurrence	1.12 **	(0.04)	1.11 *	(0.06)	1.04	(0.04)	1.19 **	(0.07)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.86	(0.09)	0.76	(0.11)	1.06	(0.10)	0.61 ***	(0.07)
Social capital index	1.00	(0.04)	0.96	(0.06)	1.02	(0.04)	0.92	(0.05)
Social problems index	0.89 *	(0.04)	0.94	(0.06)	0.88 **	(0.04)	0.99	(0.05)
Social vulnerability score	1.04	(0.10)	0.74	(0.12)	1.08	(0.13)	0.83 *	(0.08)
Percentage African-American residents	1.01	(0.05)	1.10	(0.09)	1.02	(0.08)	1.02	(0.07)
Percentage Latino residents	0.98	(0.09)	1.26	(0.18)	1.11	(0.11)	1.07	(0.15)
Occupational prestige score	1.20 **	(0.08)	1.20	(0.13)	1.19 **	(0.08)	1.15	(0.12)

	(1)		(2)		(3)		(4)	
Percentage foreign-born residents	1.23 **	(0.09)	0.97	(0.09)	1.07	(0.08)	1.08	(0.10)
Percentage of residents who moved in preceding 12 months	1.02	(0.03)	1.03	(0.06)	1.00	(0.04)	0.99	(0.04)
Resource factor score	1.07	(0.06)	1.13	(0.08)	1.06	(0.05)	1.15	(0.10)
Percentage of housing built before 1940	0.92	(0.05)	0.91	(0.05)	0.95	(0.03)	0.91	(0.06)
Violent crime rate per 1,000	1.12	(0.08)	1.29	(0.22)	1.03	(0.12)	1.14	(0.10)
Property crime rate per 1,000	0.86 **	(0.04)	0.80 **	(0.07)	0.80 ***	(0.04)	0.89	(0.06)
Child abuse and neglect rate per 1,000	1.04	(0.05)	1.24 **	(0.08)	1.09	(0.05)	1.13 *	(0.06)
Number of observations	490		442		572		360	
Number of clusters	330		301		274		187	
Number of failures	75		30		51		54	
Time at risk	5655		5344		6779		4220	
Sigma	0.40		0.39		0.32		0.40	
Log likelihood	-99.26		-48.30		-67.85		-68.19	
Chi-square	272.60 ***		191.60 ***		249.80 ***		200.70 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-V-5. Standardized logit models predicting witnessing school violence during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.16	(0.30)	0.75	(0.22)
African American	3.18 **	(1.15)	2.28 *	(0.93)				
First born in family (omitted=no)	1.01	(0.30)	0.52 *	(0.14)	0.86	(0.24)	0.63	(0.19)
Caregiver and household characteristics								
Number of siblings in household	0.86	(0.16)	0.97	(0.16)	0.81	(0.17)	0.81	(0.15)
Caregiver reported depressive symptomatology (omitted=no)	1.35	(0.52)	1.66	(0.69)	1.66	(0.63)	1.14	(0.51)
Caregiver age	0.69 *	(0.12)	0.76	(0.29)	0.66	(0.22)	0.69	(0.16)
Caregiver immigrant status (omitted=no)	1.51	(0.74)	0.86	(0.69)	1.51	(0.74)	1.45	(2.00)
Caregiver history of substance abuse (omitted=no)	0.57	(0.27)	0.42	(0.23)	1.01	(0.60)	0.20 **	(0.11)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.06 *	(0.76)	1.01	(0.44)	1.74	(0.66)	0.94	(0.50)
Post–high school technical certificate or college degree	1.14	(0.51)	0.92	(0.43)	1.22	(0.49)	0.58	(0.36)
Caregiver married/partnered (omitted=not married/partnered)	1.89 *	(0.60)	2.33 *	(0.81)	2.15 *	(0.64)	4.06 **	(2.02)
Natural log of caregiver earnings (in dollars)	0.73	(0.24)	1.82	(0.68)	1.23	(0.43)	1.15	(0.61)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.46	(0.30)	2.20	(1.59)	1.62	(1.13)	0.76	(0.73)
Household stressor scale	1.42 *	(0.22)	1.07	(0.16)	1.13	(0.18)	1.63 *	(0.33)
Household had health insurance (omitted=no)	1.26	(0.48)	3.02 **	(1.11)	2.03	(0.93)	1.13	(0.55)
Total number of moves from birth to first occurrence	1.21	(0.18)	1.02	(0.21)	0.92	(0.15)	1.30	(0.25)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.47	(0.59)	1.49	(0.71)	1.55	(0.64)	1.24	(0.67)
Social capital index	0.89	(0.14)	1.77 **	(0.31)	0.93	(0.15)	1.49	(0.34)
Social problems index	1.24	(0.25)	1.89 **	(0.42)	1.42	(0.33)	1.86 **	(0.44)
Social vulnerability score	0.50	(0.22)	0.62	(0.28)	0.89	(0.56)	0.42	(0.22)
Percentage African-American residents	0.96	(0.27)	0.92	(0.27)	0.48	(0.25)	0.73	(0.21)
Percentage Latino residents	0.87	(0.41)	0.78	(0.38)	1.22	(0.55)	0.69	(0.54)
Occupational prestige score	0.45 *	(0.18)	0.36 *	(0.15)	0.56	(0.19)	0.25 **	(0.12)

Percentage foreign-born residents	0.53 *	(0.17)	0.68	(0.23)	0.56	(0.19)	0.31	(0.20)
Percentage of residents who moved in preceding 12 months	1.17	(0.25)	1.31	(0.29)	1.36	(0.32)	0.84	(0.21)
Resource factor score	0.97	(0.24)	0.78	(0.21)	0.65	(0.17)	1.11	(0.34)
Percentage of housing built before 1940	1.48 *	(0.28)	1.29	(0.28)	0.84	(0.19)	2.62 ***	(0.61)
Violent crime rate per 1,000	0.44 *	(0.17)	0.48	(0.19)	0.34	(0.20)	0.37 *	(0.16)
Property crime rate per 1,000	2.69 **	(0.81)	3.43 ***	(1.00)	3.51 ***	(0.87)	3.75 **	(1.56)
Child abuse and neglect rate per 1,000	0.66	(0.17)	0.48 **	(0.13)	0.62 *	(0.15)	0.38 **	(0.13)
Number of observations	430		384		484		330	
Number of clusters	303		265		248		171	
Log likelihood	-198.30		-166.80		-200.60		-147.50	
Chi-square	75.47 ***		81.21 ***		77.29 ***		65.36 ***	
Pseudo-R²	0.21		0.28		0.22		0.32	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-6. Standardized AFT frailty models predicting timing of witnessing school violence during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					0.99	(0.05)	1.08	(0.05)
African American	0.77 ***	(0.05)	0.84 *	(0.06)				
First born in family (omitted=no)	1.15 **	(0.06)	1.26 ***	(0.06)	1.14 **	(0.05)	1.19 **	(0.07)
Caregiver and household characteristics								
Number of siblings in household	1.09 **	(0.03)	1.05	(0.03)	1.04	(0.04)	1.09 **	(0.03)
Caregiver reported depressive symptomatology (omitted=no)	0.89	(0.07)	0.87	(0.06)	0.94	(0.06)	0.81 *	(0.08)
Caregiver age	1.27 ***	(0.04)	1.22 **	(0.09)	1.19 **	(0.07)	1.31 ***	(0.06)
Caregiver immigrant status (omitted=no)	0.85	(0.08)	0.96	(0.12)	0.95	(0.09)	0.75	(0.13)
Caregiver history of substance abuse (omitted=no)	1.05	(0.09)	1.11	(0.09)	1.00	(0.11)	1.18 *	(0.10)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.84 *	(0.06)	1.03	(0.08)	0.90	(0.07)	0.99	(0.07)
Post–high school technical certificate or college degree	0.96	(0.08)	1.01	(0.08)	0.97	(0.09)	1.07	(0.09)
Caregiver married/partnered (omitted=not married/partnered)	0.96	(0.06)	0.81 **	(0.05)	0.90	(0.06)	0.83 *	(0.07)
Natural log of caregiver earnings (in dollars)	1.12	(0.07)	0.90	(0.06)	1.04	(0.07)	0.93	(0.08)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.25	(0.17)	0.84	(0.11)	1.00	(0.14)	0.88	(0.13)
Household stressor scale	0.96	(0.03)	0.97	(0.02)	0.99	(0.03)	0.96	(0.03)
Household had health insurance (omitted=no)	1.01	(0.07)	0.73 ***	(0.06)	0.86	(0.07)	1.01	(0.07)
Total number of moves from birth to first occurrence	1.09 **	(0.03)	1.10 **	(0.04)	1.10 ***	(0.03)	1.15 ***	(0.04)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.97	(0.07)	0.95	(0.08)	1.02	(0.08)	0.90	(0.07)
Social capital index	1.01	(0.03)	0.95	(0.03)	1.02	(0.03)	0.97	(0.03)
Social problems index	0.95	(0.03)	0.92 *	(0.03)	0.91 **	(0.03)	0.94 *	(0.03)
Social vulnerability score	1.01	(0.07)	0.97	(0.06)	0.93	(0.08)	0.98	(0.06)
Percentage African-American residents	0.97	(0.04)	1.03	(0.06)	1.18 *	(0.10)	1.03	(0.04)
Percentage Latino residents	0.97	(0.07)	1.11	(0.10)	0.98	(0.07)	1.08	(0.09)
Occupational prestige score	1.04	(0.05)	1.12	(0.08)	0.98	(0.05)	1.15 *	(0.07)

Percentage foreign-born residents	1.08	(0.06)	1.00	(0.05)	1.03	(0.06)	1.08	(0.07)
Percentage of residents who moved in preceding 12 months	0.97	(0.04)	0.98	(0.04)	0.95	(0.03)	1.01	(0.04)
Resource factor score	0.99	(0.04)	1.00	(0.04)	1.04	(0.05)	0.92 *	(0.04)
Percent of housing built before 1940	0.98	(0.03)	0.99	(0.03)	1.08	(0.05)	0.92 **	(0.03)
Violent crime rate per 1,000	1.11	(0.06)	1.07	(0.05)	1.09	(0.07)	1.13 *	(0.06)
Property crime rate per 1,000	0.94	(0.04)	0.90 **	(0.03)	0.89 **	(0.03)	0.97	(0.05)
Child abuse and neglect rate per 1,000	1.02	(0.04)	1.04	(0.05)	1.02	(0.03)	1.06	(0.05)
Number of observations	430		384		484		330	
Number of clusters	303		265		248		171	
Number of failures	117		112		107		122	
Time at risk	4813		4454		5723		3544	
Sigma	0.33		0.33		0.31		0.31	
Log likelihood	-118.60		-101.40		-114.70		-87.79	
Chi-square	208.40 ***		187.00 ***		179.30 ***		226.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-V-7. Standardized logit models predicting ever being victimized at school during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

	Male		Female		Latino		African American	
Child characteristics								
Female					0.47	(0.21)	0.58	(0.27)
African American	1.41	(0.72)	1.15	(0.75)				
First born in family (omitted=no)	0.69	(0.34)	0.57	(0.32)	0.64	(0.28)	0.80	(0.38)
Caregiver and household characteristics								
Number of siblings in household	0.69	(0.21)	0.59	(0.22)	0.47 *	(0.16)	0.97	(0.29)
Caregiver reported depressive symptomatology (omitted=no)	2.51 *	(1.08)	4.12 *	(2.78)	1.09	(0.74)	5.65 ***	(2.70)
Caregiver age	0.42 **	(0.14)	0.29 **	(0.12)	0.25 **	(0.11)	0.38 *	(0.18)
Caregiver immigrant status (omitted=no)	2.33	(1.49)	1.44	(2.39)	3.62 *	(2.21)	1.47	(2.65)
Caregiver history of substance abuse (omitted=no)	0.19 *	(0.15)	0.45	(0.42)	0.96	(1.03)	0.22 *	(0.17)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.02	(0.50)	11.41 **	(9.69)	1.01	(0.60)	4.00	(3.71)
Post–high school technical certificate or college degree	0.77	(0.46)	7.56 *	(7.40)	1.98	(0.97)	1.08	(1.14)
Caregiver married/partnered (omitted=not married/partnered)	1.10	(0.42)	2.45	(1.53)	2.41	(1.32)	1.10	(0.63)
Natural log of caregiver earnings (in dollars)	1.15	(0.55)	0.84	(0.64)	0.99	(0.62)	2.53	(1.64)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.92	(0.92)	0.34	(0.54)	0.80	(1.02)	2.29	(2.97)
Household stressor scale	0.93	(0.20)	0.78	(0.23)	0.97	(0.27)	0.97	(0.28)
Household had health insurance (omitted=no)	1.34	(0.72)	1.78	(1.38)	3.34	(2.46)	0.85	(0.52)
Total number of moves from birth to first occurrence	0.78	(0.24)	1.25	(0.30)	0.95	(0.26)	1.04	(0.28)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.66	(0.40)	4.47 *	(3.01)	0.71	(0.41)	0.90	(0.66)
Social capital index	0.96	(0.19)	1.94	(0.67)	0.91	(0.21)	1.45	(0.50)
Social problems index	1.84 *	(0.57)	1.82	(0.68)	3.19 ***	(0.99)	1.53	(0.61)
Social vulnerability score	0.45	(0.28)	0.39	(0.29)	0.30	(0.25)	0.67	(0.43)
Percentage African-American residents	0.95	(0.30)	0.57	(0.27)	0.99	(0.49)	1.06	(0.63)
Percentage Latino residents	0.43	(0.27)	0.17	(0.18)	0.32	(0.21)	0.76	(0.87)
Occupational prestige score	0.17 *	(0.12)	0.05 **	(0.05)	0.07 ***	(0.05)	0.21	(0.17)

Percentage foreign-born residents	0.60	(0.29)	0.42	(0.22)	0.59	(0.32)	0.44	(0.31)
Percentage of residents who moved in preceding 12 months	1.21	(0.27)	2.64 *	(1.04)	1.64	(0.55)	1.25	(0.44)
Resource factor score	0.93	(0.30)	0.45	(0.19)	0.93	(0.33)	0.68	(0.29)
Percentage of housing built before 1940	1.56	(0.37)	2.64 *	(1.28)	1.49	(0.48)	2.36 **	(0.76)
Violent crime rate per 1,000	0.46	(0.37)	0.40	(0.21)	0.33	(0.27)	0.43	(0.22)
Property crime rate per 1,000	2.19 *	(0.73)	3.78 **	(1.69)	4.33 **	(2.26)	2.35 *	(0.89)
Child abuse and neglect rate per 1,000	0.86	(0.27)	0.57	(0.20)	0.48	(0.20)	0.58	(0.22)
Number of observations	484		429		536		377	
Number of clusters	339		291		275		194	
Log likelihood	-106.50		-55.35		-79.49		-78.76	
Chi-square	48.35 *		72.65 ***		80.23 ***		57.36 **	
Pseudo-R²	0.20		0.44		0.33		0.30	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-8. Standardized AFT frailty models predicting timing of school victimization during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.15	(0.10)	1.21 *	(0.10)
African American	0.82	(0.10)	1.04	(0.09)				
First born in family (omitted=no)	1.15	(0.12)	1.18 **	(0.08)	1.21 *	(0.11)	1.10	(0.10)
Caregiver and household characteristics								
Number of siblings in household	1.15 *	(0.06)	1.16 ***	(0.04)	1.22 ***	(0.07)	1.11 **	(0.05)
Caregiver reported depressive symptomatology (omitted=no)	0.82	(0.10)	0.88	(0.07)	1.07	(0.13)	0.63 ***	(0.09)
Caregiver age	1.54 ***	(0.12)	1.43 ***	(0.07)	1.63 ***	(0.14)	1.52 ***	(0.12)
Caregiver immigrant status (omitted=no)	0.82	(0.11)	0.85	(0.18)	0.76 *	(0.10)	0.87	(0.21)
Caregiver history of substance abuse (omitted=no)								
Caregiver educational attainment (omitted=no degree)	1.52 *	(0.27)	1.07	(0.13)	1.04	(0.18)	1.47 *	(0.23)
High school diploma	0.98	(0.11)	0.81 *	(0.07)	0.94	(0.12)	0.79	(0.12)
Post–high school technical certificate or college degree	1.05	(0.14)	0.82 *	(0.07)	0.81 *	(0.08)	1.11	(0.19)
Caregiver married/partnered (omitted=not married/partnered)	1.12	(0.11)	0.87	(0.08)	0.90	(0.11)	1.03	(0.10)
Natural log of caregiver earnings (in dollars)	1.03	(0.12)	0.96	(0.11)	1.06	(0.14)	0.77 *	(0.09)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.07	(0.25)	1.08	(0.26)	1.08	(0.29)	0.72	(0.15)
Household stressor scale	1.01	(0.05)	0.99	(0.04)	0.99	(0.06)	0.99	(0.04)
Household had health insurance (omitted=no)	0.95	(0.11)	0.85	(0.09)	0.83	(0.13)	1.00	(0.11)
Total number of moves from birth to first occurrence	1.25 **	(0.09)	1.06	(0.04)	1.07	(0.07)	1.21 ***	(0.07)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.13	(0.13)	0.69 ***	(0.06)	0.97	(0.11)	1.03	(0.11)
Social capital index	0.98	(0.04)	0.94	(0.04)	1.02	(0.05)	0.95	(0.04)
Social problems index	0.90	(0.05)	0.99	(0.05)	0.84 **	(0.05)	0.98	(0.05)
Social vulnerability score	1.22	(0.16)	1.00	(0.08)	1.25	(0.20)	0.85	(0.09)
Percentage African-American residents	0.99	(0.07)	1.04	(0.05)	1.11	(0.11)	0.89	(0.07)
Percentage Latino residents	1.12	(0.15)	1.18	(0.11)	1.22	(0.14)	0.90	(0.13)
Occupational prestige score	1.41 **	(0.16)	1.23 **	(0.09)	1.50 ***	(0.14)	1.24	(0.14)

Percentage foreign-born residents	1.19	(0.12)	1.08	(0.08)	1.13	(0.11)	1.23	(0.13)
Percentage of residents who moved in preceding 12 months	0.95	(0.05)	0.91 *	(0.04)	0.91	(0.05)	0.93	(0.06)
Resource factor score	1.11	(0.08)	1.15 *	(0.06)	1.07	(0.07)	1.14	(0.09)
Percentage of housing built before 1940	0.88 *	(0.05)	0.94	(0.04)	0.91	(0.05)	0.83 ***	(0.05)
Violent crime rate per 1,000	1.09	(0.15)	1.05	(0.08)	1.09	(0.14)	1.22 *	(0.10)
Property crime rate per 1,000	0.94	(0.08)	0.89 *	(0.05)	0.83 *	(0.08)	1.00	(0.07)
Child abuse and neglect rate per 1,000	1.01	(0.08)	1.08	(0.05)	1.14	(0.10)	1.19 *	(0.09)
Number of observations	484		429		536		377	
Number of clusters	339		291		275		194	
Number of failures	38		26		31		33	
Time at risk	5941		5444		6778		4607	
Sigma	0.49		0.25		0.44		0.34	
Log likelihood	-84.46		-27.80		-63.06		-50.35	
Chi-square	152.30 ***		330.90 ***		251.20 ***		142.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-V-9. Standardized logit models predicting witnessing violence at home during childhood by gender and ethnicity

	Male		Female		Latino		African American[a]	
	OR	SE	OR	SE	OR	SE	OR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

Child characteristics

	Male OR	Male SE	Female OR	Female SE	Latino OR	Latino SE	AA OR	AA SE
Female					0.90	(0.44)		
African American	0.92	(0.65)	7.56	(8.83)				
First born in family (omitted=no)	0.81	(0.47)	0.77	(0.45)	0.85	(0.39)		
Caregiver and household characteristics								
Number of siblings in household	1.26	(0.43)	1.83	(1.43)	0.71	(0.31)		
Caregiver reported depressive symptomatology (omitted=no)	3.93 *	(2.68)	4.56 *	(3.52)	1.81	(1.35)		
Caregiver age	0.05 ***	(0.04)	0.01 *	(0.01)	0.10 ***	(0.05)		
Caregiver immigrant status (omitted=no)	0.48	(0.55)	2.57	(4.94)	3.52	(4.33)		
Caregiver history of substance abuse (omitted=no)	0.79	(0.65)	3.53	(3.29)	2.31	(2.94)		
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.76	(2.10)	0.87	(0.85)	1.34	(1.27)		
Post–high school technical certificate or college degree	5.44 *	(3.82)	0.50	(0.41)	1.26	(1.27)		
Caregiver married/partnered (omitted=not married/partnered)	3.31	(2.08)	1.53	(0.89)	2.13	(1.26)		
Natural log of caregiver earnings (in dollars)	1.15	(0.54)	0.18 *	(0.14)	0.61	(0.32)		
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.62	(0.56)	3.00E-03 **	(0.01)	0.10 *	(0.11)		
Household stressor scale	0.97	(0.33)	0.95	(0.29)	1.31	(0.43)		
Household had health insurance (omitted=no)	0.76	(0.55)	0.14	(0.17)	0.43	(0.35)		
Total number of moves from birth to first occurrence	0.67	(0.28)	0.23 *	(0.13)	0.74	(0.34)		
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.75	(0.69)	0.19	(0.30)	0.50	(0.48)		
Social capital index	1.70	(0.49)	1.95	(1.06)	1.39	(0.46)		
Social problems index	2.24	(1.08)	2.48	(1.72)	1.69	(0.90)		
Social vulnerability score	0.27	(0.31)	0.05	(0.08)	6.82	(12.98)		
Percentage African-American residents	0.42	(0.23)	0.08 ***	(0.06)	0.03	(0.10)		
Percentage Latino residents	0.21 *	(0.17)	0.09 *	(0.10)	1.68	(1.36)		
Occupational prestige score	0.05 **	(0.05)	0.00 **	(0.01)	0.59	(0.49)		
Percentage foreign-born residents	0.87	(0.50)	0.27	(0.19)	0.65	(0.42)		

Percentage of residents who moved in preceding 12 months	1.19	(0.40)	1.24	(0.54)	0.70	(0.30)
Resource factor score	1.94	(0.81)	4.41 *	(3.00)	1.32	(0.63)
Percentage of housing built before 1940	1.22	(0.47)	11.82 **	(9.17)	0.68	(0.28)
Violent crime rate per 1,000	0.20	(0.30)	0.15 *	(0.11)	0.17	(0.22)
Property crime rate per 1,000	5.83 **	(3.76)	67.09 *	(112.63)	7.35 ***	(3.86)
Child abuse and neglect rate per 1,000	1.30	0.50	0.24 *	(0.16)	0.62	(0.26)
Number of observations	394		351		453	
Number of clusters	280		245		235	
Log likelihood	-59.93		-34.47		-65.92	
Chi-square	71.31 ***		74.19 ***		106.10 ***	
Pseudo-R²	0.52		0.67		0.52	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Model for African-American stratum could not be estimated.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-V-10. Standardized AFT frailty models predicting timing of witnessing violence at home during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.09	(0.11)	0.84	(0.12)
African American	1.10	(0.13)	0.78	(0.10)				
First born in family (omitted=no)	1.65 ***	(0.17)	1.27 *	(0.15)	1.54 ***	(0.13)	1.44 **	(0.19)

Caregiver and household characteristics

	Male		Female		Latino		African American	
Number of siblings in household	1.06	(0.06)	0.99	(0.08)	1.13	(0.09)	0.80 ***	(0.04)
Caregiver reported depressive symptomatology (omitted=no)	0.85	(0.11)	0.63 ***	(0.08)	0.93	(0.16)	0.54 ***	(0.08)
Caregiver age	2.91 ***	(0.28)	3.17 ***	(0.46)	2.51 ***	(0.23)	3.51 ***	(0.41)
Caregiver immigrant status (omitted=no)	1.23	(0.29)	0.62	(0.17)	0.75	(0.17)	0.40 **	(0.14)
Caregiver history of substance abuse (omitted=no)	0.95	(0.16)	0.62 **	(0.09)	0.83	(0.20)	0.85	(0.08)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.72 *	(0.11)	0.83	(0.13)	0.77	(0.13)	0.57 ***	(0.09)
Post–high school technical certificate or college degree	0.64 **	(0.10)	0.87	(0.15)	0.81	(0.15)	0.55 ***	(0.09)
Caregiver married/partnered (omitted=not married/partnered)	0.94	(0.09)	0.98	(0.11)	0.93	(0.09)	0.89	(0.11)
Natural log of caregiver earnings (in dollars)	1.04	(0.10)	1.19	(0.17)	1.07	(0.13)	0.62 ***	(0.07)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.11	(0.20)	2.52 **	(0.79)	1.37	(0.31)	0.27 ***	(0.06)
Household stressor scale	1.03	(0.06)	1.02	(0.05)	1.01	(0.06)	0.82 **	(0.06)
Household had health insurance (omitted=no)	0.96	(0.13)	1.02	(0.14)	1.20	(0.15)	0.05 ***	(0.02)
Total number of moves from birth to first occurrence	1.31 ***	(0.10)	1.98 ***	(0.25)	1.32 **	(0.14)	1.67 ***	(0.14)

Neighborhood characteristics

	Male		Female		Latino		African American	
Living in neighborhood with negative peers (omitted=no)	1.08	(0.16)	1.11	(0.24)	1.25	(0.23)	0.81	(0.13)
Social capital index	0.92	(0.05)	0.98	(0.07)	1.01	(0.06)	0.91	(0.07)
Social problems index	0.77 **	(0.07)	0.97	(0.09)	0.82 *	(0.08)	0.96	(0.06)
Social vulnerability score	1.15	(0.22)	1.42 *	(0.21)	0.67 *	(0.13)	0.72	(0.13)
Percentage African-American residents	1.27 *	(0.13)	1.54 ***	(0.20)	2.02 *	(0.69)	2.73 ***	(0.34)
Percentage Latino residents	1.51 **	(0.24)	1.59 **	(0.26)	1.00	(0.19)	13.71 ***	(4.68)
Occupational prestige score	1.70 ***	(0.24)	2.19 ***	(0.45)	1.13	(0.14)	6.50 ***	(1.55)
Percentage foreign-born residents	1.02	(0.11)	1.22	(0.15)	1.14	(0.16)	0.36 ***	(0.06)
Percentage of residents who moved in preceding 12 months	0.93	(0.06)	0.95	(0.08)	1.02	(0.08)	1.02	(0.06)
Resource factor score	0.87	(0.08)	0.88	(0.09)	0.96	(0.08)	0.75 *	(0.10)
Percentage of housing built before 1940	0.96	(0.08)	0.73 **	(0.08)	0.99	(0.07)	0.62 ***	(0.08)

Violent crime rate per 1,000	1.36	(0.23)	1.11	(0.18)	1.42 *	(0.25)	2.04 ***	(0.29)
Property crime rate per 1,000	0.79 *	(0.09)	0.64 ***	(0.07)	0.79 **	(0.07)	0.35 ***	(0.04)
Child abuse and neglect rate per 1,000	0.98	(0.07)	1.22	(0.13)	1.07	(0.08)	0.94	(0.08)
Number of observations	394		351		453		292	
Number of clusters	280		245		235		158	
Number of failures	38		31		41		28	
Time at risk	4657		4312		5467		3502	
Sigma	0.42		0.41		0.48		0.22	
Log likelihood	-52.68		-36.05		-65.36		-2.57	
Chi-square	291.20 ***		395.50 ***		351.40 ***		—[a]	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

[a]An exact model chi-square value could not be estimated for the African-American stratum.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-1. Standardized logit models predicting childhood onset of smoking by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.80	(0.30)	1.61	(0.70)
African American	0.42	(0.19)	0.40	(0.23)				
First born in family (omitted=no)	1.55	(0.68)	0.71	(0.33)	1.04	(0.38)	1.53	(0.77)
Early onset of puberty (omitted=on time, late, or not yet)	1.02	(0.93)	1.02	(0.68)	0.43	(0.35)	1.52	(0.98)
Caregiver and household characteristics								
Number of siblings in household	0.57 *	(0.14)	0.58 *	(0.14)	0.65	(0.15)	0.61	(0.17)
Caregiver reported depressive symptomatology (omitted=no)	2.14	(1.14)	2.05	(1.05)	2.32	(1.02)	2.52	(1.66)
Caregiver age	0.95	(0.18)	1.40	(0.25)	0.88	(0.16)	2.22 **	(0.55)
Caregiver immigrant status (omitted=no)	3.22	(2.02)	0.07 **	(0.07)	1.13	(0.74)	0.39	(0.64)
Caregiver history of substance abuse (omitted=no)	1.54	(0.84)	0.69	(0.40)	1.42	(0.92)	1.07	(0.73)
Caregiver disability status (omitted=not disabled)	1.60	(1.04)	1.04	(0.73)	1.48	(0.96)	0.35	(0.30)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.72	(0.85)	0.69	(0.32)	1.17	(0.56)	1.29	(0.84)
Post–high school technical certificate	0.45	(0.31)	0.44	(0.32)	0.42	(0.26)	0.83	(0.72)
College degree	0.81	(0.60)	0.18 **	(0.12)	0.81	(0.53)	0.17 *	(0.15)
Caregiver married/partnered (omitted=not married/partnered)	0.90	(0.38)	3.18 *	(1.49)	1.21	(0.49)	1.40	(0.88)
Natural log of caregiver earnings (in dollars)	1.12	(0.54)	0.87	(0.55)	0.60	(0.22)	1.30	(0.81)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.36	(0.33)	0.26	(0.34)	0.13 **	(0.09)	0.75	(0.97)
Household stressor scale	0.94	(0.22)	1.16	(0.30)	1.06	(0.22)	0.95	(0.22)
Household had health insurance (omitted=no)	1.94	(0.89)	1.30	(0.72)	1.50	(0.65)	1.37	(0.97)
Total number of moves from birth to onset	0.85	(0.16)	1.31	(0.26)	0.90	(0.17)	1.27	(0.30)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.21	(0.66)	1.30	(0.79)	1.27	(0.64)	1.26	(0.81)
Social capital index	0.76	(0.16)	0.64	(0.15)	0.70	(0.15)	0.78	(0.22)
Social problems index	1.49	(0.41)	1.80 *	(0.50)	1.28	(0.34)	2.35 *	(0.88)
Social vulnerability score	1.66	(1.04)	0.98	(0.64)	1.03	(0.62)	1.81	(1.48)
Percentage African-American residents	1.54	(0.49)	0.86	(0.28)	1.06	(0.75)	1.63	(0.71)

	(1)		(2)		(3)		(4)	
Percentage Latino residents	1.64	(1.06)	0.27 *	(0.18)	1.39	(0.82)	0.39	(0.31)
Occupational prestige score	0.56	(0.22)	0.56	(0.27)	0.50	(0.19)	1.67	(1.26)
Percentage foreign-born residents	0.44	(0.19)	2.00	(0.91)	0.48	(0.23)	3.03 *	(1.68)
Living in neighborhood with hospitals and clinics (omitted=no)	1.32	(0.80)	0.49	(0.32)	0.63	(0.30)	1.42	(1.36)
Resource factor score	0.61	(0.22)	1.49	(0.53)	1.10	(0.39)	1.00	(0.49)
Percentage of housing built before 1940	0.85	(0.25)	1.16	(0.33)	0.73	(0.22)	0.81	(0.28)
Violent crime rate per 1,000	0.16 ***	(0.09)	0.58	(0.29)	0.29 *	(0.15)	0.73	(0.37)
Property crime rate per 1,000	2.76 **	(0.95)	4.96 ***	(1.65)	3.88 ***	(1.41)	1.93	(0.74)
Child abuse and neglect rate per 1,000	0.94	(0.24)	0.56 *	(0.16)	0.73	(0.19)	0.72	(0.29)
Neurological hazards index (rescaled by 100)	0.91	(0.23)	0.87	(0.22)	1.02	(0.26)	0.87	(0.29)
Number of observations	381		379		444		316	
Number of clusters	268		265		232		172	
Log likelihood	-109.70		-106.88		-134.24		-83.99	
Chi-square	68.67 ***		89.77 ***		81.90 ***		81.23 ***	
Pseudo-R²	0.26		0.28		0.25		0.28	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-2. Standardized Cox models predicting hazard of smoking during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE

Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					0.94	(0.32)	1.16	(0.45)
African American	0.48	(0.22)	0.37	(0.19)				
First born in family (omitted=no)	0.83	(0.34)	0.64	(0.26)	0.72	(0.24)	1.04	(0.49)
Early onset of puberty (omitted=on time, late, or not yet)	1.08	(0.86)	1.23	(0.81)	0.67	(0.53)	1.46	(0.97)
Caregiver and household characteristics								
Number of siblings in household	0.61 *	(0.13)	0.58 *	(0.12)	0.70	(0.13)	0.54 *	(0.14)
Caregiver reported depressive symptomatology (omitted=no)	1.57	(0.66)	1.72	(0.83)	2.00	(0.87)	2.17	(1.45)
Caregiver age	0.50 **	(0.13)	0.73	(0.23)	0.52 **	(0.11)	1.00	(0.31)
Caregiver immigrant status (omitted=no)	4.73 **	(2.30)	0.20	(0.17)	1.87	(0.83)	0.82	(1.18)
Caregiver history of substance abuse (omitted=no)	2.01	(1.09)	0.76	(0.41)	1.56	(1.08)	0.81	(0.59)
Caregiver disability status (omitted=not disabled)	1.61	(1.10)	1.13	(0.69)	1.27	(0.88)	0.73	(0.73)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.71	(0.80)	0.89	(0.42)	1.43	(0.54)	1.03	(0.57)
Post–high school technical certificate	0.55	(0.35)	0.88	(0.56)	0.78	(0.39)	0.76	(0.63)
College degree	0.67	(0.59)	0.41	(0.23)	0.94	(0.64)	0.26	(0.22)
Caregiver married/partnered (omitted=not married/partnered)	0.77	(0.27)	2.15	(0.90)	0.99	(0.31)	1.40	(0.75)
Natural log of caregiver earnings (in dollars)	0.65	(0.29)	0.82	(0.47)	0.48 **	(0.13)	1.52	(1.11)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.16	(0.16)	0.33	(0.36)	0.15 ***	(0.08)	1.05	(1.44)
Household stressor scale	1.03	(0.18)	1.01	(0.25)	1.15	(0.20)	0.80	(0.18)
Household had health insurance (omitted=no)	1.33	(0.51)	1.06	(0.52)	1.28	(0.41)	1.14	(0.79)
Total number of moves from birth to onset	0.74	(0.11)	1.02	(0.18)	0.75	(0.13)	0.98	(0.22)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.14	(0.59)	1.19	(0.60)	1.38	(0.58)	1.02	(0.65)
Social capital index	0.94	(0.16)	0.72	(0.16)	0.91	(0.17)	0.69	(0.17)
Social problems index	1.57	(0.44)	1.70 *	(0.38)	1.31	(0.30)	2.26 *	(0.86)
Social vulnerability score	1.11	(0.55)	1.23	(0.68)	1.23	(0.61)	1.40	(0.68)
Percentage African-American residents	1.40	(0.39)	0.95	(0.28)	0.83	(0.34)	1.71	(0.77)
Percentage Latino residents	1.45	(0.77)	0.40	(0.24)	0.96	(0.46)	0.72	(0.50)
Occupational prestige score	1.08	(0.41)	1.01	(0.45)	1.04	(0.33)	2.39	(1.61)
Percentage foreign-born residents	0.70	(0.23)	2.34	(1.03)	0.98	(0.34)	2.83 *	(1.41)
Living in neighborhood with hospitals and clinics (omitted=no)	1.12	(0.65)	0.56	(0.36)	0.74	(0.31)	2.10	(1.90)

Resource factor score	0.71	(0.25)	1.65	(0.65)	1.13	(0.36)	0.97	(0.42)
Percentage of housing built before 1940	0.73	(0.18)	0.95	(0.22)	0.69	(0.16)	0.57	(0.18)
Violent crime rate per 1,000	0.62	(0.27)	0.92	(0.35)	0.64	(0.29)	1.07	(0.42)
Property crime rate per 1,000	1.37	(0.38)	2.29 **	(0.59)	1.73	(0.53)	1.51	(0.49)
Child abuse and neglect rate per 1,000	1.43	(0.33)	0.72	(0.16)	1.10	(0.20)	1.05	(0.33)
Neurological hazards index (rescaled by 100)	0.99	(0.18)	0.89	(0.18)	0.97	(0.16)	1.05	(0.31)
Number of observations	381		379		444		316	
Number of clusters	268		265		232		172	
Number of failures	50		50		62		38	
Time at risk	5450		5428		6325		4553	
Log likelihood	-228.70		-230.90		-299.30		-166.80	
Chi-square	104.10 ***		86.11 ***		108.40 ***		75.12 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VI-3. Standardized logit models predicting childhood onset of alcohol consumption by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.66	(0.22)	3.69 *	(2.43)
African American	0.56	(0.32)	0.69	(0.40)				
First born in family (omitted=no)	0.82	(0.39)	0.82	(0.40)	0.65	(0.25)	1.15	(0.71)
Early onset of puberty (omitted=on time, late, or not yet)	0.73	(0.58)	0.82	(0.59)	0.83	(0.66)	0.59	(0.41)
Caregiver and household characteristics								
Number of siblings in household	0.56 **	(0.12)	0.61	(0.17)	0.56 *	(0.14)	0.54	(0.18)
Caregiver reported depressive symptomatology (omitted=no)	3.49 *	(1.90)	1.17	(0.59)	2.87	(1.64)	0.91	(0.57)
Caregiver age	0.53 *	(0.14)	0.78	(0.22)	0.45 **	(0.13)	1.24	(0.42)
Caregiver immigrant status (omitted=no)	1.14	(0.82)	0.14 *	(0.11)	0.63	(0.45)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	1.02	(0.68)	1.04	(0.72)	1.08	(0.85)	3.72	(4.00)
Caregiver disability status (omitted=not disabled)	0.47	(0.37)	1.42	(0.89)	1.58	(1.02)	0.22	(0.35)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.29	(1.16)	0.93	(0.53)	1.17	(0.57)	4.75	(6.60)
Post–high school technical certificate	1.57	(0.98)	1.31	(0.93)	0.88	(0.48)	11.82	(17.30)
College degree	1.57	(1.44)	1.00	(0.71)	0.71	(0.59)	3.95	(5.41)
Caregiver married/partnered (omitted=not married/partnered)	0.98	(0.46)	0.90	(0.45)	0.95	(0.39)	0.69	(0.44)
Natural log of caregiver earnings (in dollars)	0.45	(0.28)	1.27	(0.71)	0.86	(0.49)	0.40	(0.27)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.20	(0.25)	0.53	(0.57)	0.33	(0.39)	0.12	(0.14)
Household stressor scale	0.88	(0.18)	1.10	(0.29)	1.15	(0.26)	0.92	(0.28)
Household had health insurance (omitted=no)	1.75	(1.10)	1.05	(0.63)	1.23	(0.62)	1.42	(1.08)
Total number of moves from birth to onset	0.68	(0.14)	1.49 *	(0.26)	1.09	(0.23)	1.42	(0.35)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.44	(0.28)	2.01	(1.47)	0.69	(0.41)	1.63	(1.10)
Social capital index	1.05	(0.22)	0.48 **	(0.12)	0.72	(0.15)	0.48 *	(0.15)
Social problems index	1.90 *	(0.62)	1.11	(0.40)	1.05	(0.32)	2.18	(0.97)
Social vulnerability score	2.66	(1.74)	4.39 *	(3.14)	1.17	(0.68)	13.97 *	(14.70)

	(1)		(2)		(3)		(4)	
Percentage African-American residents	0.52	(0.20)	0.63	(0.24)	1.42	(0.77)	0.69	(0.40)
Percentage Latino residents	0.37	(0.23)	0.46	(0.33)	0.67	(0.40)	0.52	(0.62)
Occupational prestige score	0.25 **	(0.11)	0.49	(0.25)	0.30 **	(0.13)	0.80	(0.51)
Percentage foreign-born residents	0.83	(0.35)	0.88	(0.49)	0.68	(0.31)	0.72	(0.66)
Living in neighborhood with hospitals and clinics (omitted=no)	1.75	(1.05)	0.34	(0.21)	0.44	(0.25)	0.61	(0.64)
Resource factor score	0.57	(0.24)	1.40	(0.67)	1.10	(0.43)	1.14	(0.78)
Percentage of housing built before 1940	1.51	(0.46)	1.46	(0.43)	1.19	(0.30)	1.34	(0.52)
Violent crime rate per 1,000	0.18 **	(0.12)	0.13 ***	(0.08)	0.23 *	(0.13)	0.13 **	(0.10)
Property crime rate per 1,000	2.18 *	(0.78)	2.23	(1.05)	4.11 ***	(1.37)	0.42	(0.31)
Child abuse and neglect rate per 1,000	0.61	(0.19)	0.70	(0.21)	0.62	(0.21)	0.59	(0.20)
Neurological hazards index (rescaled by 100)	0.82	(0.20)	0.70	(0.18)	0.85	(0.20)	1.00	(0.27)
Number of observations	362		371		430		285	
Number of clusters	256		257		228		157	
Log likelihood	-95.65		-90.25		-118.78		-63.90	
Chi-square	78.12 ***		71.49 ***		83.32 ***		55.96 ***	
Pseudo-R²	0.26		0.29		0.28		0.29	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-4. Standardized Cox models predicting hazard of alcohol consumption during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.88	(0.26)	2.01	(0.96)
African American	0.85	(0.42)	0.85	(0.43)				
First born in family (omitted=no)	0.54	(0.22)	0.58	(0.24)	0.49 *	(0.16)	0.73	(0.49)
Early onset of puberty (omitted=on time, late, or not yet)	1.12	(0.77)	0.94	(0.67)	1.48	(0.83)	0.48	(0.35)
Caregiver and household characteristics								
Number of siblings in household	0.52 **	(0.13)	0.54 **	(0.12)	0.64 **	(0.10)	0.39 *	(0.17)
Caregiver reported depressive symptomatology (omitted=no)	3.15 *	(1.69)	1.37	(0.89)	2.17	(0.99)	0.73	(0.44)
Caregiver age	0.19 ***	(0.06)	0.20 **	(0.10)	0.18 ***	(0.07)	0.27 *	(0.17)
Caregiver immigrant status (omitted=no)	2.44	(1.33)	0.54	(0.36)	1.40	(0.65)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	1.45	(0.96)	1.02	(0.71)	1.92	(1.21)	2.43	(3.21)
Caregiver disability status (omitted=not disabled)	0.70	(0.56)	4.37 *	(2.64)	2.56 *	(1.21)	0.55	(1.01)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.03	(0.93)	1.27	(0.81)	1.62	(0.60)	2.93	(4.75)
Post–high school technical certificate	1.78	(1.05)	1.56	(1.17)	1.69	(0.71)	10.05	(16.39)
College degree	1.80	(1.36)	2.29	(1.51)	1.14	(0.80)	2.98	(3.97)
Caregiver married/partnered (omitted=not married/partnered)	0.73	(0.34)	0.66	(0.38)	0.72	(0.27)	0.74	(0.65)
Natural log of caregiver earnings (in dollars)	0.71	(0.59)	1.18	(0.67)	1.24	(0.77)	0.86	(0.63)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.87	(1.46)	0.61	(0.69)	1.03	(1.37)	0.64	(0.64)
Household stressor scale	0.76	(0.18)	0.81	(0.18)	1.04	(0.18)	0.78	(0.21)
Household had health insurance (omitted=no)	0.54	(0.30)	1.01	(0.68)	0.79	(0.31)	2.43	(2.15)
Total number of moves from birth to onset	0.55 *	(0.14)	0.90	(0.15)	0.89	(0.15)	0.86	(0.28)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.83	(0.44)	2.32	(1.75)	0.88	(0.47)	4.26 *	(2.97)
Social capital index	1.54 *	(0.30)	0.59	(0.16)	1.03	(0.19)	0.67	(0.28)
Social problems index	1.53	(0.55)	1.14	(0.34)	1.11	(0.32)	1.41	(0.69)
Social vulnerability score	1.48	(0.78)	3.18	(2.31)	0.85	(0.33)	8.45 *	(7.91)
Percentage African-American residents	0.47 *	(0.14)	0.83	(0.26)	1.03	(0.38)	0.65	(0.33)
Percentage Latino residents	0.54	(0.30)	0.82	(0.48)	0.62	(0.32)	0.32	(0.38)
Occupational prestige score	0.52	(0.21)	0.76	(0.45)	0.59	(0.20)	0.62	(0.46)
Percentage foreign born residents	1.09	(0.42)	0.76	(0.36)	1.07	(0.40)	1.04	(1.21)

Living in neighborhood with hospitals and clinics (omitted=no)	0.89	(0.41)	0.50	(0.38)	0.47	(0.20)	0.74	(1.04)
Resource factor score	0.56	(0.20)	1.59	(0.80)	1.21	(0.36)	0.73	(0.68)
Percentage of housing built before 1940	1.29	(0.34)	1.16	(0.36)	1.11	(0.22)	1.34	(0.63)
Violent crime rate per 1,000	0.64	(0.39)	0.26 *	(0.14)	0.63	(0.34)	0.36	(0.25)
Property crime rate per 1,000	1.04	(0.34)	1.27	(0.51)	2.05 *	(0.67)	0.20	(0.18)
Child abuse and neglect rate per 1,000	1.28	(0.30)	0.94	(0.24)	1.07	(0.24)	1.10	(0.38)
Neurological hazards index (rescaled by 100)	0.77	(0.15)	0.88	(0.20)	0.89	(0.13)	1.00	(0.31)
Number of observations	362		371		430		303	
Number of clusters	256		257		228		168	
Number of failures	42		40		55		27	
Time at risk	5178		5314		6136		4356	
Log likelihood	-179.00		-170.70		-245.20		-106.40	
Chi-square	140.50 ***		168.20 ***		166.70 ***		152.10 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-5. Standardized logit models predicting childhood onset of marijuana use by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.63	(0.23)	1.61	(0.87)
African American	0.46	(0.25)	0.44	(0.27)				
First born in family (omitted=no)	0.54	(0.31)	0.41	(0.23)	0.49	(0.23)	0.41	(0.26)
Early onset of puberty (omitted=on time, late, or not yet)	0.97	(0.75)	2.58	(1.89)	1.69	(1.25)	1.08	(1.42)
Caregiver and household characteristics								
Number of siblings in household	0.76	(0.14)	0.46 *	(0.15)	0.73	(0.19)	0.46 *	(0.18)
Caregiver reported depressive symptomatology (omitted=no)	4.98 **	(2.57)	0.53	(0.42)	0.76	(0.45)	7.32 *	(6.62)
Caregiver age	0.28 ***	(0.09)	0.45 *	(0.14)	0.27 ***	(0.09)	0.43	(0.22)
Caregiver immigrant status (omitted=no)	1.42	(0.99)	0.42	(0.34)	1.79	(1.03)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	1.98	(1.02)	1.34	(0.91)	2.93	(1.89)	1.90	(1.63)
Caregiver disability status (omitted=not disabled)	0.60	(0.48)	7.62 **	(5.96)	1.75	(0.92)	2.27	(3.20)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.14	(1.17)	1.23	(0.85)	1.35	(0.73)	6.25 *	(4.46)
Post–high school technical certificate	1.04	(0.82)	0.06	(0.09)	0.48	(0.39)	0.04	(0.08)
College degree	0.98	(0.95)	0.28	(0.31)	1.22	(0.87)	0.66	(1.04)
Caregiver married/partnered (omitted=not married/partnered)	1.14	(0.54)	1.04	(0.51)	0.80	(0.34)	0.96	(0.68)
Natural log of caregiver earnings (in dollars)	0.64	(0.58)	0.40	(0.28)	0.17 *	(0.15)	1.79	(1.33)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.19	(0.38)	0.10	(0.13)	0.01 *	(0.02)	0.64	(0.61)
Household stressor scale	0.66	(0.17)	0.72	(0.16)	1.10	(0.25)	0.35 **	(0.14)
Household had health insurance (omitted=no)	0.63	(0.38)	0.21 **	(0.12)	0.65	(0.37)	0.19	(0.16)
Total number of moves from birth to onset	0.90	(0.22)	2.16 ***	(0.45)	1.25	(0.28)	1.80 *	(0.49)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.48	(0.33)	1.05	(0.80)	1.89	(1.19)	0.08 *	(0.09)
Social capital index	2.00 *	(0.61)	0.88	(0.25)	1.31	(0.29)	2.02	(0.95)
Social problems index	3.02 **	(1.03)	1.67	(0.54)	1.36	(0.41)	11.87 ***	(8.07)
Social vulnerability score	2.27	(1.54)	2.19	(1.83)	1.05	(0.57)	49.78 *	(83.15)
Percentage African-American residents	0.95	(0.28)	1.36	(0.72)	1.21	(0.47)	1.97	(1.65)

	(1)		(2)		(3)		(4)	
Percentage Latino residents	0.65	(0.43)	0.60	(0.53)	0.88	(0.52)	0.42	(0.51)
Occupational prestige score	0.43	(0.20)	0.48	(0.31)	0.33 **	(0.14)	0.87	(0.75)
Percentage foreign-born residents	0.57	(0.29)	0.61	(0.39)	0.42	(0.23)	1.75	(1.49)
Living in neighborhood with hospitals and clinics (omitted=no)	1.95	(1.36)	0.15 **	(0.11)	0.84	(0.56)	0.43	(0.39)
Resource factor score	0.39 *	(0.17)	2.78 *	(1.29)	0.89	(0.34)	0.96	(0.56)
Percentage of housing built before 1940	1.89 *	(0.55)	1.81 *	(0.54)	1.23	(0.30)	2.89	(1.56)
Violent crime rate per 1,000	0.16 **	(0.10)	0.22 *	(0.17)	0.20 *	(0.14)	0.01 **	(0.02)
Property crime rate per 1,000	2.35 *	(0.92)	1.32	(0.67)	3.31 ***	(1.08)	1.48	(0.76)
Child abuse and neglect rate per 1,000	0.54	(0.17)	0.72	(0.30)	0.36 **	(0.12)	1.26	(0.58)
Neurological hazards index (rescaled by 100)	0.60	(0.19)	0.75	(0.20)	0.98	(0.25)	0.26 **	(0.11)
Number of observations	372		374		436		292	
Number of clusters	261		260		228		156	
Log likelihood	-91.21		-76.06		-106.73		-51.04	
Chi-square	64.78 ***		89.79 ***		47.02		77.55 ***	
Pseudo-R²	0.32		0.35		0.26		0.50	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-6. Standardized Cox models predicting hazard of marijuana use during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE

Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					0.51 *	(0.16)	0.69	(0.21)
African American	0.82	(0.37)	0.55	(0.48)				
First born in family (omitted=no)	0.21 **	(0.11)	0.25 **	(0.13)	0.28 ***	(0.10)	0.25 **	(0.13)
Early onset of puberty (omitted=on time, late, or not yet)	2.87	(2.48)	2.10	(1.97)	2.19	(1.41)	2.32	(2.38)
Caregiver and household characteristics								
Number of siblings in household	0.47 **	(0.13)	0.24 ***	(0.09)	0.65	(0.17)	0.47 *	(0.14)
Caregiver reported depressive symptomatology (omitted=no)	1.72	(0.76)	0.44	(0.24)	0.54	(0.26)	2.18	(2.98)
Caregiver age	0.04 ***	(0.02)	0.07 ***	(0.04)	0.05 ***	(0.03)	0.08 ***	(0.05)
Caregiver immigrant status (omitted=no)	3.53	(2.61)	0.36	(0.35)	2.19	(1.27)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	1.23	(0.54)	0.73	(0.77)	4.59 *	(3.07)	0.39	(0.37)
Caregiver disability status (omitted=not disabled)	4.00	(3.02)	47.61 ***	(54.75)	6.85 *	(6.20)	4.24	(5.94)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.84	(0.73)	1.17	(1.06)	1.14	(0.51)	2.15	(1.41)
Post–high school technical certificate	1.13	(0.80)	0.17	(0.23)	1.53	(1.26)	0.10	(0.16)
College degree	0.82	(0.72)	1.13	(1.43)	2.57	(2.93)	0.22	(0.40)
Caregiver married/partnered (omitted=not married/partnered)	1.44	(0.68)	1.19	(0.61)	0.81	(0.42)	1.65	(0.77)
Natural log of caregiver earnings (in dollars)	1.48	(1.44)	0.42	(0.27)	0.14	(0.15)	5.07	(6.14)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	3.05	(6.43)	0.20	(0.24)	0.02	(0.04)	7.71	(18.64)
Household stressor scale	0.68 *	(0.12)	0.56	(0.17)	0.95	(0.21)	0.43	(0.28)
Household had health insurance (omitted=no)	0.34 *	(0.18)	0.16 *	(0.13)	0.78	(0.36)	0.42	(0.30)
Total number of moves from birth to onset	0.59 *	(0.13)	1.37	(0.23)	0.90	(0.21)	1.49	(0.45)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.95	(0.70)	3.94 *	(2.75)	1.21	(1.19)	0.54	(0.31)
Social capital index	2.45 ***	(0.65)	0.67	(0.24)	1.50	(0.34)	2.13	(0.97)
Social problems index	3.21 ***	(0.98)	0.74	(0.20)	1.35	(0.69)	3.02 *	(1.50)
Social vulnerability score	2.47	(1.37)	3.17	(2.55)	1.17	(0.66)	11.60	(20.57)
Percentage African-American residents	0.70	(0.20)	1.23	(0.58)	1.27	(0.49)	2.12	(2.04)
Percentage Latino residents	0.46	(0.29)	0.33	(0.24)	0.68	(0.39)	1.02	(1.42)
Occupational prestige score	0.66	(0.29)	0.31	(0.20)	0.57 *	(0.15)	1.71	(1.77)
Percentage foreign-born residents	0.93	(0.44)	1.13	(0.68)	0.87	(0.38)	1.73	(1.41)

Living in neighborhood with hospitals and clinics (omitted=no)	2.20	(1.52)	0.33	(0.31)	0.52	(0.40)	0.91	(1.03)
Resource factor score	0.34 *	(0.17)	4.21 *	(2.52)	1.37	(0.56)	0.31	(0.21)
Percentage of housing built before 1940	1.39	(0.45)	2.11 **	(0.59)	1.28	(0.30)	1.34	(0.78)
Violent crime rate per 1,000	0.27	(0.18)	0.30	(0.20)	0.30 *	(0.16)	0.13	(0.17)
Property crime rate per 1,000	1.57	(0.46)	0.93	(0.56)	2.15 *	(0.70)	1.15	(0.73)
Child abuse and neglect rate per 1,000	1.09	(0.35)	1.40	(0.45)	1.07	(0.34)	1.16	(0.51)
Neurological hazards index (rescaled by 100)	0.63 *	(0.12)	0.84	(0.15)	0.88	(0.15)	0.61	(0.19)
Number of observations	372		374		436		310	
Number of clusters	261		260		228		167	
Number of failures	43		35		45		33	
Time at risk	5310		5338		6235		4413	
Log likelihood	-163.90		-129.60		-182.80		-115.40	
Chi-square	278.00 ***		290.70 ***		194.60 ***		295.40 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-7. Standardized logit models predicting childhood onset of running away from home by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					4.01 **	(2.07)	0.46	(0.23)
African American	3.75	(2.71)	0.12 *	(0.10)				
First born in family (omitted=no)	0.43	(0.42)	0.60	(0.29)	0.67	(0.34)	0.82	(0.60)
Early onset of puberty (omitted=on time, late, or not yet)	2.29	(2.01)	1.50	(0.96)	0.40	(0.45)	5.96 *	(4.52)
Caregiver and household characteristics								
Number of siblings in household	1.58	(0.42)	1.17	(0.37)	1.37	(0.34)	1.67	(0.59)
Caregiver reported depressive symptomatology (omitted=no)	3.94 *	(2.38)	0.75	(0.47)	5.34 *	(3.54)	1.39	(1.26)
Caregiver age	0.43	(0.20)	0.28 **	(0.11)	0.20 ***	(0.10)	0.20 *	(0.15)
Caregiver immigrant status (omitted=no)	0.73	(0.86)	0.41	(0.28)	1.21	(0.74)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	2.16	(1.33)	2.10	(1.81)	3.64	(2.61)	2.39	(2.32)
Caregiver disability status (omitted=not disabled)	—[b]	—[b]	0.98	(0.84)	0.24	(0.23)	0.12	(0.19)
Caregiver educational attainment (omitted=no degree)								
High school diploma	2.50	(1.82)	5.51	(6.22)	5.64 **	(3.69)	8.14	(10.85)
Post–high school technical certificate	1.57	(2.47)	7.70 *	(7.90)	7.92 **	(5.64)	2.85	(4.60)
College degree	3.14	(3.39)	2.09	(2.97)	6.64	(6.63)	1.09	(1.36)
Caregiver married/partnered (omitted=not married/partnered)	0.63	(0.45)	0.86	(0.42)	1.18	(0.62)	0.63	(0.67)
Natural log of caregiver earnings (in dollars)	2.21	(1.21)	2.86 *	(1.33)	4.18 *	(2.58)	1.77	(1.16)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	4.77	(4.53)	4.47	(4.15)	4.33	(3.70)	1.08	(1.32)
Household stressor scale	1.46	(0.58)	0.96	(0.26)	1.05	(0.33)	1.67	(0.57)
Household had health insurance (omitted=no)	1.66	(1.11)	0.34 *	(0.17)	0.73	(0.39)	2.67	(2.27)
Total number of moves from birth to onset	0.78	(0.24)	1.62 *	(0.38)	0.62	(0.18)	2.50 ***	(0.54)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	4.64	(4.45)	1.47	(1.18)	0.86	(0.53)	3.67	(3.03)
Social capital index	1.25	(0.33)	1.64	(0.50)	1.83 **	(0.37)	1.36	(0.53)
Social problems index	1.71	(1.03)	2.25 *	(0.72)	3.37 **	(1.37)	1.41	(0.53)
Social vulnerability score	7.59 *	(7.03)	0.56	(0.37)	1.12	(0.70)	0.93	(1.37)

Percentage African-American residents	0.20 ***	(0.09)	0.97	(0.44)	0.55	(0.34)	0.75	(0.39)
Percentage Latino residents	0.21	(0.24)	0.89	(0.77)	1.39	(0.99)	0.60	(0.76)
Occupational prestige score	0.06 **	(0.06)	0.06 **	(0.05)	0.03 ***	(0.03)	0.14 **	(0.10)
Percentage foreign-born residents	0.89	(0.75)	0.17 *	(0.13)	0.18 *	(0.14)	0.15	(0.17)
Living in neighborhood with hospitals and clinics (omitted=no)	1.63	(1.80)	0.02 ***	(0.03)	0.25 *	(0.16)	0.04 **	(0.05)
Resource factor score	0.41	(0.28)	1.46	(0.85)	0.38	(0.19)	1.95	(1.53)
Percentage of housing built before 1940	0.45	(0.26)	3.02 ***	(1.00)	1.24	(0.48)	2.87 **	(1.14)
Violent crime rate per 1,000	0.01 ***	(0.01)	0.07 **	(0.06)	0.03 ***	(0.02)	0.12	(0.14)
Property crime rate per 1,000	2.31	(1.43)	3.54 *	(1.80)	5.22 **	(2.70)	0.33	(0.39)
Child abuse and neglect rate per 1,000	2.87 *	(1.51)	0.84	(0.25)	1.10	(0.44)	2.89	(1.85)
Neurological hazards index (rescaled by 100)	1.63	(0.93)	1.19	(0.31)	1.49	(0.62)	1.24	(0.61)
Number of observations	384		398		477		312	
Number of clusters	263		276		241		170	
Log likelihood	-49.28		-64.61		-68.34		-49.80	
Chi-square	68.98 ***		56.18 **		69.67 ***		102.10 ***	
Pseudo-R²	0.42		0.44		0.44		0.37	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

[b]Caregiver disability status was excluded from the analysis in the male stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VI-8. Standardized AFT frailty models predicting timing of running away from home during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.95 *	(0.03)	1.06	(0.03)
African American	0.91	(0.07)	1.07 *	(0.04)				
First born in family (omitted=no)	1.16 *	(0.08)	1.05 *	(0.02)	1.05	(0.03)	1.08 *	(0.04)
Early onset of puberty (omitted=on time, late, or not yet)	1.02	(0.08)	0.95	(0.03)	1.02	(0.06)	0.98	(0.03)
Caregiver and household characteristics								
Number of siblings in household	1.00	(0.02)	1.01	(0.02)	1.00	(0.02)	0.96 *	(0.02)
Caregiver reported depressive symptomatology (omitted=no)	0.89 *	(0.05)	1.03	(0.03)	0.92 *	(0.04)	1.01	(0.06)
Caregiver age	1.21 ***	(0.05)	1.25 ***	(0.03)	1.26 ***	(0.05)	1.38 ***	(0.05)
Caregiver immigrant status (omitted=no)	0.97	(0.09)	0.98	(0.03)	0.98	(0.05)	1.19	(0.14)
Caregiver history of substance abuse (omitted=no)	0.83 **	(0.05)	0.88 ***	(0.03)	0.90 *	(0.04)	0.85 **	(0.05)
Caregiver disability status (omitted=not disabled)	2.56 ***	(0.36)	0.98	(0.04)	1.05	(0.05)	1.15	(0.10)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.89	(0.06)	0.90 **	(0.04)	0.85 ***	(0.04)	0.90	(0.07)
Post–high school technical certificate	0.92	(0.09)	0.90 *	(0.04)	0.83 **	(0.05)	1.00	(0.07)
College degree	0.86	(0.07)	0.93	(0.06)	0.81 **	(0.06)	1.03	(0.08)
Caregiver married/partnered (omitted=not married/partnered)	1.06	(0.05)	1.02	(0.02)	1.06	(0.04)	0.96	(0.05)
Natural log of caregiver earnings (in dollars)	0.91	(0.05)	0.96 *	(0.02)	0.96	(0.03)	0.88 **	(0.04)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.84 *	(0.07)	0.91 *	(0.04)	0.92	(0.06)	0.83 *	(0.07)
Household stressor scale	0.96	(0.03)	1.00	(0.02)	1.02	(0.02)	0.98	(0.02)
Household had health insurance (omitted=no)	1.06	(0.07)	1.05	(0.03)	1.10 *	(0.05)	1.05	(0.06)
Total number of moves from birth to onset	1.06 *	(0.03)	1.01	(0.01)	1.07 **	(0.02)	0.98	(0.02)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.85	(0.08)	0.94 *	(0.03)	1.03	(0.05)	0.82 ***	(0.04)
Social capital index	0.99	(0.03)	0.95 **	(0.01)	0.95 **	(0.02)	0.96 *	(0.02)
Social problems index	0.95	(0.04)	0.97 *	(0.01)	0.91 ***	(0.02)	0.99	(0.03)
Social vulnerability score	0.88	(0.06)	1.06 *	(0.03)	0.98	(0.04)	1.05	(0.07)
Percentage African-American residents	1.13 ***	(0.04)	1.04 *	(0.02)	1.12 *	(0.05)	1.03	(0.04)
Percentage Latino residents	1.09	(0.07)	1.10 **	(0.04)	1.01	(0.05)	1.04	(0.08)
Occupational prestige score	1.17 **	(0.07)	1.16 ***	(0.04)	1.15 ***	(0.04)	1.12 *	(0.06)
Percentage foreign-born residents	1.00	(0.05)	1.06	(0.03)	1.08	(0.05)	1.14 **	(0.05)

	Model 1		Model 2		Model 3		Model 4	
Living in neighborhood with hospitals and clinics (omitted=no)	0.97	(0.08)	1.25 ***	(0.05)	1.08	(0.05)	1.25 ***	(0.08)
Resource factor score	1.12	(0.07)	0.96	(0.03)	1.07 *	(0.04)	1.01	(0.03)
Percentage of housing built before 1940	1.05	(0.03)	0.94 ***	(0.02)	0.98	(0.02)	0.97	(0.03)
Violent crime rate per 1,000	1.39 ***	(0.12)	1.12 ***	(0.03)	1.23 ***	(0.06)	1.11 *	(0.05)
Property crime rate per 1,000	0.96	(0.05)	0.93 **	(0.03)	0.92 **	(0.02)	1.11	(0.06)
Child abuse and neglect rate per 1,000	0.89 **	(0.03)	0.99	(0.02)	0.95 **	(0.02)	0.92 **	(0.03)
Neurological hazards index (rescaled by 100)	0.95	(0.03)	0.99	(0.02)	0.99	(0.02)	0.98	(0.02)
Number of observations	412		398		477		333	
Number of clusters	285		276		241		182	
Number of failures	22		34		34		22	
Time at risk	5721		5604		6727		4598	
Sigma	0.18		0.09		0.12		0.12	
Log likelihood	-15.36		9.14		-3.89		-6.89	
Chi-square	424.20 ***		511.80 ***		269.90 ***		630.30 ***	

Notes:
Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio
* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VI-9. Standardized logit models predicting childhood onset of violent behavior by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.38 *	(0.16)	0.79	(0.30)
African American	1.28	(0.62)	2.42	(1.41)				
First born in family (omitted=no)	0.70	(0.35)	0.36 *	(0.15)	0.73	(0.33)	0.56	(0.30)
Early onset of puberty (omitted=on time, late, or not yet)	0.65	(0.41)	1.08	(0.72)	1.42	(0.79)	1.40	(1.09)
Caregiver and household characteristics								
Number of siblings in household	0.62	(0.17)	0.89	(0.20)	0.69	(0.13)	0.73	(0.21)
Caregiver reported depressive symptomatology (omitted=no)	3.42 **	(1.63)	4.93 **	(2.84)	1.77	(0.96)	7.38 ***	(4.08)
Caregiver age	0.12 ***	(0.05)	0.17 ***	(0.07)	0.10 ***	(0.04)	0.20 ***	(0.09)
Caregiver immigrant status (omitted=no)	0.97	(0.52)	0.01 **	(0.01)	0.39	(0.27)	0.33	(0.35)
Caregiver history of substance abuse (omitted=no)	0.65	(0.37)	0.87	(0.53)	1.54	(0.99)	0.57	(0.33)
Caregiver disability status (omitted=not disabled)	4.70 *	(3.29)	4.86 *	(3.23)	1.14	(0.89)	18.89 **	(18.65)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.82	(0.39)	1.24	(0.77)	0.67	(0.30)	1.67	(1.12)
Post–high school technical certificate	1.15	(0.68)	0.77	(0.41)	0.60	(0.33)	0.85	(0.62)
College degree	0.22	(0.19)	0.10 **	(0.09)	1.02	(1.19)	0.22 *	(0.15)
Caregiver married/partnered (omitted=not married/partnered)	0.83	(0.36)	3.05 *	(1.71)	0.98	(0.43)	1.05	(0.65)
Natural log of caregiver earnings (in dollars)	0.69	(0.43)	2.05	(1.04)	0.98	(0.49)	0.85	(0.68)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.16	(0.20)	1.73	(1.53)	0.29	(0.30)	0.23	(0.40)
Household stressor scale	1.30	(0.28)	0.87	(0.21)	1.40	(0.34)	1.04	(0.27)
Household had health insurance (omitted=no)	1.71	(0.79)	1.21	(0.63)	1.93	(0.87)	1.84	(0.99)
Total number of moves from birth to onset	0.79	(0.17)	1.24	(0.25)	1.13	(0.27)	0.84	(0.18)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.65	(0.32)	12.76 **	(9.97)	0.45	(0.28)	4.08 **	(2.19)
Social capital index	1.44	(0.32)	1.24	(0.30)	1.82 *	(0.50)	1.27	(0.33)
Social problems index	1.23	(0.31)	1.19	(0.32)	1.83 *	(0.50)	0.97	(0.25)
Social vulnerability score	0.84	(0.42)	0.45	(0.30)	0.42	(0.28)	1.07	(0.66)
Percentage African-American residents	1.26	(0.37)	1.30	(0.38)	0.82	(0.39)	1.22	(0.35)

Percentage Latino residents	0.45	(0.23)	0.40	(0.28)	0.62	(0.36)	0.29 *	(0.16)
Occupational prestige score	0.32 **	(0.14)	0.77	(0.35)	0.35 *	(0.15)	0.54	(0.32)
Percentage foreign-born residents	0.76	(0.28)	0.97	(0.49)	0.80	(0.33)	1.01	(0.43)
Living in neighborhood with hospitals and clinics (omitted=no)	0.72	(0.54)	2.40	(2.25)	0.44	(0.29)	1.31	(1.39)
Resource factor score	0.92	(0.39)	0.44 *	(0.18)	0.75	(0.30)	0.62	(0.30)
Percentage of housing built before 1940	1.58	(0.40)	1.45	(0.45)	1.68	(0.48)	1.46	(0.54)
Violent crime rate per 1,000	0.86	(0.37)	1.49	(0.77)	1.02	(0.70)	1.20	(0.64)
Property crime rate per 1,000	2.42 *	(0.84)	8.11 ***	(4.41)	4.75 ***	(1.74)	2.60	(1.39)
Child abuse and neglect rate per 1,000	0.51 *	(0.15)	0.26 ***	(0.10)	0.40 *	(0.17)	0.44 **	(0.13)
Neurological hazards index (rescaled by 100)	1.45	(0.35)	1.15	(0.37)	1.23	(0.31)	1.46	(0.42)
Number of observations	372		367		435		304	
Number of clusters	260		261		230		170	
Log likelihood	-112.86		-87.66		-108.24		-97.97	
Chi-square	78.24 ***		63.90 ***		81.67 ***		86.86 ***	
Pseudo-R²	0.39		0.48		0.35		0.44	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Exhibit VI-10. Standardized Cox models predicting hazard of engaging in violent behavior during childhood by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of onset unless otherwise noted)								
Child characteristics								
Female					0.58	(0.18)	0.83	(0.18)
African American	1.52	(0.56)	1.82	(0.77)				
First born in family (omitted=no)	0.41 **	(0.12)	0.41 **	(0.11)	0.49	(0.18)	0.45 **	(0.13)
Early onset of puberty (omitted=on time, late, or not yet)	0.49	(0.25)	1.13	(0.40)	1.54	(0.63)	0.68	(0.30)
Caregiver and household characteristics								
Number of siblings in household	0.79	(0.13)	0.67	(0.14)	0.75	(0.12)	0.68 *	(0.11)
Caregiver reported depressive symptomatology (omitted=no)	1.81 *	(0.53)	2.27 *	(0.83)	1.41	(0.60)	1.99 *	(0.67)
Caregiver age	0.09 ***	(0.03)	0.14 ***	(0.05)	0.06 ***	(0.02)	0.13 ***	(0.05)
Caregiver immigrant status (omitted=no)	0.89	(0.38)	0.22	(0.18)	0.39	(0.19)	1.18	(0.75)
Caregiver history of substance abuse (omitted=no)	1.11	(0.41)	0.89	(0.39)	2.68	(1.40)	0.81	(0.27)
Caregiver disability status (omitted=not disabled)	4.10 ***	(1.61)	2.28	(0.98)	1.12	(0.63)	4.12 *	(2.35)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.97	(0.29)	0.90	(0.40)	0.64	(0.22)	1.56	(0.59)
Post–high school technical certificate	1.35	(0.52)	1.16	(0.49)	0.77	(0.33)	1.05	(0.52)
College degree	0.31 *	(0.17)	0.46	(0.28)	1.81	(1.79)	0.41	(0.24)
Caregiver married/partnered (omitted=not married/partnered)	0.74	(0.24)	2.05 **	(0.57)	0.74	(0.24)	0.91	(0.32)
Natural log of caregiver earnings (in dollars)	0.83	(0.40)	0.84	(0.31)	1.06	(0.47)	0.79	(0.36)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.39	(0.38)	0.43	(0.29)	0.47	(0.47)	0.35	(0.34)
Household stressor scale	1.12	(0.15)	0.82	(0.13)	1.09	(0.21)	1.08	(0.17)
Household had health insurance (omitted=no)	1.36	(0.45)	0.95	(0.37)	1.36	(0.51)	1.30	(0.53)
Total number of moves from birth to onset	0.76	(0.11)	0.79	(0.12)	0.91	(0.19)	0.73 *	(0.11)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.82	(0.33)	5.50 ***	(2.75)	0.45	(0.25)	2.43 *	(0.90)
Social capital index	1.36 *	(0.21)	1.00	(0.19)	1.65 **	(0.27)	1.20	(0.16)
Social problems index	1.16	(0.23)	0.91	(0.16)	1.56	(0.40)	0.81	(0.14)
Social vulnerability score	0.99	(0.29)	1.07	(0.37)	0.67	(0.38)	1.23	(0.37)
Percentage African-American residents	1.03	(0.18)	1.07	(0.27)	0.61	(0.29)	1.00	(0.20)
Percentage Latino residents	0.59	(0.20)	0.53	(0.23)	0.51	(0.24)	0.41 *	(0.16)
Occupational prestige score	0.40 **	(0.12)	0.62	(0.27)	0.41 *	(0.16)	0.40 *	(0.16)
Percentage foreign-born residents	0.82	(0.25)	0.85	(0.26)	1.00	(0.37)	0.93	(0.34)

	(1)		(2)		(3)		(4)	
Living in neighborhood with hospitals and clinics (omitted=no)	0.43	(0.20)	0.85	(0.44)	0.63	(0.35)	0.54	(0.30)
Resource factor score	1.27	(0.33)	0.73	(0.21)	0.86	(0.25)	0.91	(0.25)
Percentage of housing built before 1940	1.55 *	(0.28)	1.33	(0.35)	1.58 *	(0.34)	1.56 *	(0.34)
Violent crime rate per 1,000	0.76	(0.22)	0.64	(0.25)	0.93	(0.59)	0.79	(0.27)
Property crime rate per 1,000	1.42 *	(0.25)	1.86 **	(0.44)	2.46 ***	(0.54)	1.23	(0.20)
Child abuse and neglect rate per 1,000	0.77	(0.12)	0.74	(0.17)	0.64	(0.15)	0.95	(0.18)
Neurological hazards index (rescaled by 100)	1.30	(0.22)	1.09	(0.22)	1.21	(0.21)	1.17	(0.26)
Number of observations	372		367		435		304	
Number of clusters	260		261		230		170	
Number of failures	73		63		56		80	
Time at risk	5248		5210		6228		4230	
Log likelihood	-319.70		-263.90		-241.60		-338.50	
Chi-square	207.00 ***		291.50 ***		231.00 ***		326.30 ***	

Notes:
Exponentiated coefficients; robust standard errors in parentheses
* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-1. Standardized multilevel mixed-effects logistic models predicting placement into gifted/advanced classes by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.92	(0.83)	2.85 *	(1.22)
Latino	0.70	(0.37)	0.24	(0.20)				
First born in family (omitted=no)	0.71	(0.36)	2.13	(1.25)	0.93	(0.45)	1.19	(0.55)
Caregiver and household characteristics								
Number of siblings in household	0.65	(0.17)	1.14	(0.38)	0.96	(0.26)	0.89	(0.21)
Caregiver reported depressive symptomatology (omitted=no)	0.29	(0.19)	0.31	(0.27)	0.28	(0.21)	0.90	(0.49)
Caregiver age at time of child's birth	0.51	(0.18)	1.26	(0.49)	1.00	(0.25)	0.84	(0.32)
Caregiver immigrant status (omitted=no)	4.07	(3.11)	0.45	(0.49)	0.92	(0.59)	0.96	(0.95)
Caregiver history of substance abuse (omitted=no)[a]								
Caregiver disability status (omitted=not disabled)	0.90	(0.74)	0.75	(0.80)	0.31	(0.31)	2.48	(1.81)
Caregiver educational attainment (omitted=no degree)								
High school diploma	4.52 *	(2.71)	1.75	(1.49)	4.88 **	(2.97)	2.07	(1.36)
Post–high school technical certificate	0.33	(0.31)	0.91	(0.88)	1.55	(1.16)	0.61	(0.47)
College degree	5.79 *	(4.60)	3.45	(4.00)	0.32	(0.44)	4.09	(2.95)
Caregiver married/partnered (omitted=not married/partnered)	0.82	(0.39)	0.19	(0.18)	0.53	(0.28)	0.66	(0.35)
Log of caregiver earnings (in dollars)	0.74	(0.42)	1.61	(0.99)	0.43	(0.24)	2.39	(1.16)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.13	(0.15)	1.57	(1.78)	0.23	(0.25)	0.42	(0.35)
Household stressor scale	1.58	(0.37)	0.69	(0.24)	0.92	(0.25)	1.26	(0.28)
Household had health insurance (omitted=no)	0.41	(0.20)	0.88	(0.70)	0.99	(0.54)	0.43	(0.24)
Total number of moves from birth to first occurrence	1.33	(0.27)	0.49	(0.22)	0.97	(0.23)	0.83	(0.20)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	0.80	(0.44)	0.08 *	(0.09)	0.47	(0.28)	0.51	(0.26)
Last school attended was a nonpublic school (omitted=no)	2.54	(1.57)	0.71	(0.62)	0.61	(0.50)	1.91	(1.03)
Global indicator of teacher/counselor influence	1.42	(0.38)	1.47	(0.50)	1.11	(0.27)	1.25	(0.28)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	3.91 *	(2.54)	2.18	(2.06)	3.80	(2.59)	1.22	(0.76)
Social capital index	1.34	(0.33)	1.84	(0.76)	1.14	(0.28)	2.90 ***	(0.92)
Social problems index	0.64	(0.22)	1.83	(0.83)	0.92	(0.32)	1.29	(0.42)
Social vulnerability score	1.33	(0.89)	3.68	(4.08)	2.56	(2.09)	0.88	(0.65)
Percentage African-American residents	0.40 *	(0.16)	1.16	(0.67)	0.70	(0.40)	0.33 *	(0.15)

Percentage Latino residents	0.36	(0.23)	1.12	(1.08)	0.28	(0.20)	1.02	(0.70)
Occupational prestige score	0.36	(0.20)	0.32	(0.27)	0.28 *	(0.16)	0.24 *	(0.15)
Percentage foreign-born residents	0.96	(0.43)	0.65	(0.46)	1.20	(0.58)	0.29 *	(0.15)
Percentage of residents who moved in preceding 12 months	1.40	(0.43)	0.90	(0.42)	0.78	(0.26)	1.74	(0.54)
Living in neighborhood with hospitals and clinics (omitted=no)	0.28	(0.20)	0.95	(0.89)	1.14	(0.83)	0.25 *	(0.17)
Resource factor score	1.30	(0.55)	0.53	(0.29)	1.12	(0.45)	0.65	(0.25)
Percentage of housing built before 1940	1.26	(0.38)	2.03	(0.97)	1.89	(0.70)	2.17 *	(0.67)
Violent crime rate per 1,000	0.96	(0.53)	0.09 *	(0.09)	0.46	(0.32)	0.52	(0.29)
Property crime rate per 1,000	1.24	(0.52)	1.80	(1.03)	2.15 *	(0.82)	0.47	(0.26)
Child abuse and neglect rate per 1,000	0.41 *	(0.17)	0.89	(0.48)	0.68	(0.27)	0.56	(0.24)
Neurological hazards index (rescaled by 100)	1.04	(0.47)	0.47	(0.37)	0.35 *	(0.18)	4.09 *	(2.58)
Respiratory hazards index (rescaled by 100)	1.05	(0.39)	1.57	(0.95)	2.02	(0.83)	0.34 *	(0.16)
Number of observations	397		372		457		312	
Log likelihood	-84.08		-118.90		-104.80		-89.86	
Chi-square	35.03		11.71		30.83		46.11	
LR chi-square (XTME versus logistic)	0.00		6.66 **		0.98		0.00	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a] Caregiver history of substance abuse was excluded from the analysis because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-2. Standardized AFT frailty models predicting timing of placement into gifted/advanced classes by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

	Male TmR	SE	Female TmR	SE	Latino TmR	SE	African American TmR	SE
Child characteristics								
Female					0.80 *	(0.08)	0.82 **	(0.05)
Latino	1.19	(0.14)	1.20	(0.13)				
First born in family (omitted=no)	1.05	(0.10)	0.87	(0.07)	1.04	(0.12)	0.98	(0.07)
Caregiver and household characteristics								
Number of siblings in household	1.14 *	(0.07)	1.01	(0.05)	1.05	(0.07)	1.05	(0.04)
Caregiver reported depressive symptomatology (omitted=no)	1.37 **	(0.17)	1.15	(0.15)	1.45 *	(0.27)	0.91	(0.09)
Caregiver age at time of child's birth	1.10	(0.10)	1.02	(0.06)	1.02	(0.06)	1.04	(0.06)
Caregiver immigrant status (omitted=no)	0.70 *	(0.11)	1.14	(0.16)	1.10	(0.13)	0.96	(0.16)
Caregiver history of substance abuse (omitted=no)[a]								
Caregiver disability status (omitted=not disabled)	1.02	(0.19)	0.93	(0.15)	1.38	(0.35)	0.82	(0.09)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.66 **	(0.09)	0.89	(0.11)	0.63 **	(0.09)	0.85	(0.10)
Post–high school technical certificate	1.13	(0.20)	1.01	(0.16)	0.80	(0.14)	1.11	(0.17)
College degree	0.61 *	(0.12)	0.84	(0.13)	1.29	(0.33)	0.78	(0.11)
Caregiver married/partnered (omitted=not married/partnered)	1.02	(0.11)	1.32 *	(0.15)	1.13	(0.13)	1.11	(0.09)
Log of caregiver earnings (in dollars)	1.15	(0.14)	0.94	(0.07)	1.29 *	(0.14)	0.86	(0.07)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.75 *	(0.39)	0.95	(0.13)	1.44	(0.30)	1.27	(0.18)
Household stressor scale	0.91	(0.06)	1.08	(0.06)	1.05	(0.07)	0.98	(0.04)
Household had health insurance (omitted=no)	1.24	(0.14)	0.98	(0.13)	1.01	(0.13)	1.11	(0.11)
Total number of moves from birth to first occurrence	1.04	(0.06)	1.23 ***	(0.07)	1.09	(0.06)	1.17 ***	(0.06)
School characteristics								
Last school attended was a neighborhood school	1.04	(0.13)	1.47 ***	(0.16)	1.15	(0.16)	1.11	(0.09)
Last school attended was a nonpublic school	0.86	(0.12)	1.11	(0.13)	1.23	(0.20)	0.86	(0.07)
Global indicator of teacher/counselor influence	0.90	(0.05)	0.92	(0.05)	0.98	(0.06)	0.92 *	(0.04)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.77	(0.12)	0.85	(0.10)	0.78	(0.11)	0.93	(0.09)
Social capital index	0.98	(0.06)	0.93	(0.05)	1.01	(0.06)	0.85 **	(0.05)
Social problems index	1.10	(0.09)	0.92	(0.05)	0.96	(0.08)	1.00	(0.05)
Social vulnerability score	0.92	(0.15)	0.75 *	(0.10)	0.68 *	(0.13)	1.10	(0.12)
Percentage African-American residents	1.22 **	(0.09)	0.92	(0.07)	1.12	(0.15)	1.24 ***	(0.07)
Percentage Latino residents	1.25	(0.16)	0.97	(0.12)	1.43 *	(0.25)	0.99	(0.10)
Occupational prestige score	1.21	(0.14)	1.12	(0.10)	1.26	(0.15)	1.33 **	(0.13)

Percentage foreign-born residents	0.97	(0.10)	1.02	(0.09)	0.87	(0.10)	1.31 **	(0.12)
Percentage of residents who moved in preceding 12 months	0.95	(0.06)	1.05	(0.08)	1.10	(0.09)	0.88 **	(0.04)
Living in neighborhood with hospitals and clinics (omitted=no)	1.24	(0.18)	0.98	(0.12)	0.91	(0.15)	1.28 *	(0.16)
Resource factor score	0.99	(0.08)	1.16	(0.10)	0.96	(0.09)	1.16 *	(0.09)
Percentage of housing built before 1940	0.92	(0.06)	0.89 *	(0.05)	0.84 *	(0.07)	0.87 **	(0.04)
Violent crime rate per 1,000	0.96	(0.13)	1.50 ***	(0.18)	1.23	(0.19)	1.06	(0.10)
Property crime rate per 1,000	1.02	(0.09)	0.95	(0.07)	0.90	(0.08)	1.17	(0.10)
Child abuse and neglect rate per 1,000	1.10	(0.10)	0.92	(0.07)	1.02	(0.09)	1.02	(0.08)
Neurological hazards index (rescaled by 100)	1.04	(0.08)	1.29 *	(0.14)	1.41 **	(0.18)	0.84	(0.08)
Respiratory hazards index (rescaled by 100)	0.97	(0.07)	0.83 *	(0.07)	0.80 *	(0.07)	1.12	(0.08)
Number of observations	397		372		457		312	
Number of clusters	287		265		246		174	
Number of failures	33		54		39		48	
Time at risk	5356		5039		6270		4125	
Sigma	0.51		0.47		0.56		0.34	
Log likelihood	-72.93		-101.80		-93.72		-60.71	
Chi-square	80.64 ***		121.80 ***		76.43 ***		156.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

[a] Caregiver history of substance abuse was excluded from the analysis because it was perfectly predictive.

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VII-3. Standardized multilevel mixed-effects logistic models predicting placement into special education classes by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.31 **	(0.11)	0.35 *	(0.15)
Latino	0.70	(0.26)	0.58	(0.34)				
First born in family (omitted=no)	0.69	(0.25)	0.67	(0.34)	0.65	(0.26)	0.65	(0.29)
Caregiver and household characteristics								
Number of siblings in household	0.84	(0.14)	0.83	(0.22)	0.97	(0.17)	0.77	(0.19)
Caregiver reported depressive symptomatology (omitted=no)	1.16	(0.43)	1.70	(0.89)	0.75	(0.35)	2.20	(1.00)
Caregiver age at time of child's birth	0.85	(0.16)	0.83	(0.25)	0.91	(0.19)	0.81	(0.22)
Caregiver immigrant status (omitted=no)	0.63	(0.32)	0.17	(0.18)	0.40	(0.22)	0.76	(0.84)
Caregiver history of substance abuse (omitted=no)	0.67	(0.32)	1.14	(0.74)	1.24	(0.62)	0.43	(0.26)
Caregiver disability status (omitted=not disabled)	2.15	(1.17)	0.85	(0.66)	2.72	(1.50)	1.27	(1.03)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.06	(0.39)	1.00	(0.60)	0.62	(0.27)	1.37	(0.71)
Post–high school technical certificate	1.95	(0.90)	1.05	(0.68)	1.16	(0.61)	1.60	(0.94)
College degree	0.46	(0.33)	0.88	(0.67)	1.66	(1.16)	0.24	(0.20)
Caregiver married/partnered (omitted=not married/partnered)	1.24	(0.41)	3.61 *	(1.84)	1.51	(0.54)	1.75	(0.88)
Log of caregiver earnings (in dollars)	0.78	(0.24)	0.89	(0.34)	1.00	(0.33)	0.64	(0.24)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.42	(0.89)	2.00	(1.55)	2.25	(1.54)	1.46	(1.11)
Household stressor scale	0.97	(0.16)	1.23	(0.32)	0.89	(0.19)	1.15	(0.23)
Household had health insurance (omitted=no)	1.13	(0.40)	0.28 *	(0.17)	1.30	(0.55)	0.88	(0.43)
Total number of moves from birth to first occurrence	0.75	(0.14)	0.72	(0.20)	0.75	(0.15)	0.73	(0.16)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	1.67	(0.79)	1.93	(1.32)	1.20	(0.58)	2.11	(1.44)
Last school attended was a nonpublic school (omitted=no)	1.37	(0.70)	2.35	(1.36)	0.90	(0.51)	2.19	(1.18)
Global indicator of teacher/counselor influence	1.10	(0.18)	1.07	(0.27)	0.95	(0.16)	1.24	(0.30)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.57	(0.68)	1.69	(1.11)	0.96	(0.52)	2.98 *	(1.54)
Social capital index	1.22	(0.20)	1.25	(0.32)	1.15	(0.21)	1.34	(0.31)
Social problems index	1.01	(0.23)	0.82	(0.24)	1.08	(0.32)	0.85	(0.21)
Social vulnerability score	1.09	(0.52)	1.01	(0.91)	3.74 *	(2.35)	0.53	(0.34)
Percentage African-American residents	1.10	(0.28)	1.15	(0.52)	1.34	(0.65)	1.05	(0.35)

Percentage Latino residents	1.38	(0.58)	4.96	(4.12)	3.93 *	(2.12)	0.74	(0.43)
Occupational prestige score	0.80	(0.27)	0.33	(0.20)	0.67	(0.27)	0.47	(0.23)
Percentage foreign-born residents	0.64	(0.21)	0.33 *	(0.17)	0.39 *	(0.15)	0.87	(0.41)
Percentage of residents who moved in preceding 12 months	0.74	(0.18)	0.57	(0.26)	0.54	(0.18)	0.64	(0.24)
Living in neighborhood with hospitals and clinics (omitted=no)	1.18	(0.61)	0.47	(0.32)	0.75	(0.40)	1.10	(0.77)
Resource factor score	0.80	(0.21)	0.86	(0.36)	0.52 *	(0.15)	0.81	(0.30)
Percentage of housing built before 1940	1.46	(0.34)	0.25 *	(0.16)	1.38	(0.43)	0.98	(0.30)
Violent crime rate per 1,000	0.71	(0.27)	0.10 **	(0.08)	0.11 ***	(0.05)	1.05	(0.46)
Property crime rate per 1,000	1.50	(0.40)	6.69 ***	(2.99)	2.23 **	(0.65)	1.63	(0.61)
Child abuse and neglect rate per 1,000	0.68	(0.19)	1.24	(0.48)	0.88	(0.29)	1.06	(0.37)
Neurological hazards index (rescaled by 100)	1.18	(0.32)	1.97	(1.24)	0.78	(0.25)	2.24	(1.32)
Respiratory hazards index (rescaled by 100)	0.70	(0.18)	1.01	(0.44)	0.72	(0.19)	0.75	(0.34)
Number of observations	375		381		436		320	
Log likelihood	-156.90		-85.04		-133.80		-101.60	
Chi-square	33.46		40.07		50.55		43.08	
LR chi-square (XTME versus logistic)	0.00		0.00		0.00		0.00	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VII-4. Standardized AFT frailty models predicting timing of placement into special education classes by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE

Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.53 **	(0.20)	1.20 *	(0.10)
Latino	1.07	(0.13)	1.10	(0.20)				
First born in family (omitted=no)	1.13	(0.12)	1.20	(0.17)	1.15	(0.15)	1.15	(0.10)
Caregiver and household characteristics								
Number of siblings in household	1.07	(0.06)	1.07	(0.08)	1.05	(0.07)	1.06	(0.05)
Caregiver reported depressive symptomatology (omitted=no)	1.02	(0.11)	0.81	(0.14)	1.16	(0.20)	0.77 *	(0.09)
Caregiver age at time of child's birth	1.06	(0.06)	1.20 *	(0.10)	1.08	(0.08)	1.05	(0.07)
Caregiver immigrant status (omitted=no)	1.13	(0.17)	1.83 *	(0.50)	1.36	(0.24)	1.01	(0.19)
Caregiver history of substance abuse (omitted=no)	1.03	(0.16)	0.86	(0.16)	0.85	(0.15)	1.07	(0.13)
Caregiver disability status (omitted=not disabled)	0.79	(0.13)	1.05	(0.24)	0.62 *	(0.13)	1.12	(0.17)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.06	(0.13)	0.96	(0.19)	1.22	(0.19)	0.86	(0.11)
Post–high school technical certificate	0.80	(0.13)	0.96	(0.20)	0.82	(0.17)	0.92	(0.13)
College degree	1.29	(0.27)	0.92	(0.24)	0.79	(0.22)	1.32	(0.27)
Caregiver married/partnered (omitted=not married/partnered)	0.91	(0.10)	0.66 *	(0.11)	0.83	(0.11)	0.96	(0.10)
Log of caregiver earnings (in dollars)	1.09	(0.11)	1.00	(0.13)	1.02	(0.12)	1.08	(0.08)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.89	(0.19)	0.73	(0.20)	0.72	(0.19)	0.89	(0.14)
Household stressor scale	1.02	(0.05)	0.94	(0.07)	1.08	(0.08)	0.96	(0.04)
Household had health insurance (omitted=no)	0.96	(0.11)	1.51 *	(0.27)	0.90	(0.14)	0.98	(0.12)
Total number of moves from birth to first occurrence	1.24 ***	(0.08)	1.29 **	(0.12)	1.24 **	(0.10)	1.25 ***	(0.07)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	0.92	(0.14)	0.76	(0.14)	0.96	(0.17)	0.85	(0.11)
Last school attended was a nonpublic school (omitted=no)	0.99	(0.15)	0.82	(0.13)	1.17	(0.23)	0.81	(0.10)
Global indicator of teacher/counselor influence	0.99	(0.06)	0.95	(0.08)	1.04	(0.08)	0.94	(0.05)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.87	(0.12)	0.89	(0.17)	1.05	(0.23)	0.72 **	(0.08)
Social capital index	0.95	(0.05)	0.97	(0.09)	0.98	(0.07)	0.99	(0.06)
Social problems index	0.98	(0.07)	1.08	(0.10)	0.93	(0.11)	1.12	(0.07)
Social vulnerability score	0.88	(0.11)	0.89	(0.19)	0.62 **	(0.11)	0.95	(0.11)
Percentage African-American residents	1.01	(0.09)	0.88	(0.12)	0.91	(0.18)	1.04	(0.08)

	(1)		(2)		(3)		(4)	
Percentage Latino residents	0.95	(0.12)	0.59 *	(0.14)	0.72	(0.13)	1.18	(0.15)
Occupational prestige score	1.11	(0.11)	1.34 *	(0.20)	1.07	(0.14)	1.31 *	(0.15)
Percentage foreign-born residents	1.10	(0.12)	1.37	(0.24)	1.24	(0.19)	0.93	(0.10)
Percentage of residents who moved in preceding 12 months	1.12	(0.08)	1.20	(0.12)	1.22 *	(0.11)	1.15	(0.09)
Living in neighborhood with hospitals and clinics (omitted=no)	0.92	(0.15)	1.20	(0.21)	1.07	(0.20)	0.93	(0.15)
Resource factor score	1.12	(0.09)	1.04	(0.11)	1.20	(0.12)	1.12	(0.09)
Percentage of housing built before 1940	0.91	(0.07)	1.43 **	(0.20)	0.90	(0.10)	1.02	(0.07)
Violent crime rate per 1,000	1.17	(0.13)	1.89 ***	(0.34)	1.98 ***	(0.31)	1.06	(0.11)
Property crime rate per 1,000	0.98	(0.08)	0.60 ***	(0.06)	0.84	(0.09)	0.94	(0.08)
Child abuse and neglect rate per 1,000	1.00	(0.09)	0.91	(0.11)	1.00	(0.12)	0.88	(0.07)
Neurological hazards index (rescaled by 100)	0.98	(0.09)	0.91	(0.17)	1.08	(0.12)	0.86	(0.13)
Respiratory hazards index (rescaled by 100)	1.07	(0.10)	0.92	(0.13)	1.10	(0.11)	1.03	(0.13)
Number of observations	375		381		436		320	
Number of clusters	274		270		240		181	
Number of failures	68		38		58		48	
Time at risk	4964		5206		5852		4318	
Sigma	0.59		0.66		0.73		0.43	
Log likelihood	-146.10		-88.94		-143.10		-80.84	
Chi-square	50.12		139.70 ***		85.29 ***		108.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VII-5. Standardized multilevel mixed-effects logistic models predicting suspensions and expulsions from school by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.90	(0.29)	0.55	(0.21)
Latino	0.53	(0.22)	1.92	(0.90)				
First born in family (omitted=no)	0.73	(0.28)	0.93	(0.36)	0.67	(0.25)	1.12	(0.50)
Caregiver and household characteristics								
Number of siblings in household	0.80	(0.15)	1.18	(0.25)	0.99	(0.20)	0.81	(0.21)
Caregiver reported depressive symptomatology (omitted=no)	2.10	(0.91)	2.08	(0.95)	1.78	(0.84)	3.10	(1.88)
Caregiver age at time of child's birth	0.79	(0.17)	0.99	(0.22)	0.99	(0.20)	0.70	(0.23)
Caregiver immigrant status (omitted=no)	0.73	(0.42)	0.65	(0.41)	0.74	(0.40)	0.18	(0.21)
Caregiver history of substance abuse (omitted=no)	1.08	(0.60)	1.58	(0.88)	4.57 **	(2.64)	0.26	(0.20)
Caregiver disability status (omitted=not disabled)	0.79	(0.51)	0.87	(0.56)	0.44	(0.29)	2.53	(2.28)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.93	(0.37)	1.25	(0.61)	0.73	(0.31)	1.23	(0.79)
Post–high school technical certificate	0.70	(0.38)	1.82	(1.05)	0.74	(0.43)	1.25	(0.94)
College degree	1.23	(0.73)	0.67	(0.45)	0.83	(0.60)	1.19	(0.89)
Caregiver married/partnered (omitted=not married/partnered)	1.44	(0.53)	0.77	(0.34)	1.17	(0.44)	1.35	(0.73)
Log of caregiver earnings (in dollars)	0.86	(0.33)	1.79	(0.66)	1.51	(0.56)	1.27	(0.64)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.34	(0.25)	1.44	(0.96)	1.14	(0.82)	0.32	(0.30)
Household stressor scale	1.34	(0.24)	1.06	(0.21)	0.97	(0.20)	1.60	(0.40)
Household had health insurance (omitted=no)	0.76	(0.30)	1.14	(0.54)	0.81	(0.35)	0.86	(0.48)
Total number of moves from birth to first occurrence	0.82	(0.15)	1.28	(0.24)	1.11	(0.21)	0.76	(0.19)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	0.77	(0.35)	1.57	(0.81)	1.26	(0.60)	0.89	(0.51)
Last school attended was a nonpublic school (omitted=no)	1.65	(0.89)	0.73	(0.39)	1.96	(1.07)	0.62	(0.37)
Global indicator of teacher/counselor influence	1.06	(0.20)	0.82	(0.16)	0.93	(0.17)	1.34	(0.35)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.95	(0.95)	2.30	(1.17)	2.35	(1.25)	1.04	(0.60)
Social capital index	1.30	(0.25)	1.77 *	(0.45)	1.48	(0.32)	1.42	(0.39)
Social problems index	1.02	(0.25)	1.02	(0.26)	1.31	(0.37)	0.91	(0.28)
Social vulnerability score	1.03	(0.55)	1.26	(0.75)	0.88	(0.54)	1.38	(0.93)
Percentage African-American residents	1.25	(0.34)	1.31	(0.45)	1.49	(0.68)	0.70	(0.30)

Percentage Latino residents	1.33	(0.62)	0.65	(0.36)	1.48	(0.75)	0.43	(0.31)
Occupational prestige score	0.75	(0.29)	1.01	(0.48)	0.79	(0.33)	0.36	(0.22)
Percentage foreign-born residents	0.95	(0.33)	0.92	(0.33)	0.85	(0.29)	0.68	(0.35)
Percentage of residents who moved in preceding 12 months	1.40	(0.33)	1.22	(0.32)	1.34	(0.36)	1.10	(0.33)
Living in neighborhood with hospitals and clinics (omitted=no)	0.80	(0.45)	0.40	(0.24)	0.69	(0.41)	0.58	(0.43)
Resource factor score	1.32	(0.39)	1.37	(0.43)	1.21	(0.39)	1.51	(0.61)
Percentage of housing built before 1940	1.40	(0.32)	1.24	(0.31)	1.09	(0.31)	2.05 *	(0.62)
Violent crime rate per 1,000	0.29 **	(0.13)	0.88	(0.42)	0.36 *	(0.19)	0.33 *	(0.18)
Property crime rate per 1,000	3.03 **	(1.04)	1.17	(0.42)	2.62 **	(0.82)	1.68	(0.79)
Child abuse and neglect rate per 1,000	0.74	(0.20)	0.71	(0.22)	0.86	(0.26)	0.75	(0.27)
Neurological hazards index (rescaled by 100)	0.79	(0.23)	1.34	(0.63)	0.74	(0.23)	2.60	(1.76)
Respiratory hazards index (rescaled by 100)	1.00	(0.28)	1.12	(0.42)	1.56	(0.45)	0.46	(0.24)
Number of observations	389		379		448		320	
Log likelihood	-183.80		-163.50		-186.70		-151.60	
Chi-square	27.77		23.72		32.39		22.36	
LR chi-square (XTME versus logistic)	1.62		1.80		3.74 *		6.78 **	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-6. Standardized AFT frailty models predicting timing of suspensions and expulsions from school by gender and ethnicity

	Male		Female		Latino		African American	
	TmR	SE	TmR	SE	TmR	SE	TmR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.08	(0.06)	1.07	(0.06)
Latino	1.12	(0.08)	1.01	(0.08)				
First born in family (omitted=no)	1.04	(0.06)	0.96	(0.06)	1.03	(0.06)	0.93	(0.06)
Caregiver and household characteristics								
Number of siblings in household	1.02	(0.03)	1.00	(0.03)	0.97	(0.03)	1.03	(0.04)
Caregiver reported depressive symptomatology (omitted=no)	0.90	(0.07)	0.83 *	(0.06)	0.92	(0.07)	0.82 *	(0.08)
Caregiver age at time of child's birth	1.03	(0.03)	1.03	(0.03)	1.01	(0.03)	1.08	(0.05)
Caregiver immigrant status (omitted=no)	1.03	(0.11)	0.97	(0.10)	1.07	(0.09)	1.05	(0.22)
Caregiver history of substance abuse (omitted=no)	0.93	(0.08)	0.91	(0.07)	0.81 **	(0.05)	1.10	(0.10)
Caregiver disability status (omitted=not disabled)	1.04	(0.09)	0.95	(0.08)	1.09	(0.08)	0.78	(0.10)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.03	(0.08)	0.93	(0.07)	1.04	(0.06)	0.96	(0.09)
Post–high school technical certificate	1.08	(0.11)	0.88	(0.09)	0.95	(0.08)	1.09	(0.13)
College degree	0.96	(0.10)	1.06	(0.11)	0.96	(0.12)	0.96	(0.09)
Caregiver married/partnered (omitted=not married/partnered)	0.97	(0.06)	1.02	(0.07)	0.97	(0.05)	1.03	(0.09)
Log of caregiver earnings (in dollars)	1.03	(0.09)	0.95	(0.05)	0.95	(0.06)	0.97	(0.07)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.24	(0.21)	0.96	(0.10)	0.96	(0.11)	1.17	(0.15)
Household stressor scale	0.96	(0.03)	1.01	(0.03)	1.02	(0.03)	0.94	(0.04)
Household had health insurance (omitted=no)	1.09	(0.08)	0.97	(0.07)	1.02	(0.06)	1.13	(0.09)
Total number of moves from birth to first occurrence	1.11 **	(0.04)	1.07 *	(0.03)	1.05	(0.03)	1.21 ***	(0.05)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	1.06	(0.09)	0.95	(0.09)	0.99	(0.07)	0.98	(0.08)
Last school attended was a nonpublic school (omitted=no)	0.98	(0.08)	1.06	(0.08)	0.95	(0.07)	1.10	(0.09)
Global indicator of teacher/counselor influence	0.98	(0.04)	1.03	(0.04)	1.02	(0.04)	0.94	(0.04)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.93	(0.08)	0.85 *	(0.07)	0.94	(0.08)	0.93	(0.07)
Social capital index	0.97	(0.03)	0.96	(0.03)	0.96	(0.03)	1.00	(0.04)
Social problems index	0.99	(0.05)	1.06	(0.05)	0.94	(0.04)	1.06	(0.06)
Social vulnerability score	0.96	(0.09)	0.85	(0.08)	0.93	(0.10)	0.89	(0.08)
Percentage African-American residents	0.95	(0.04)	0.93	(0.05)	0.98	(0.06)	0.99	(0.06)

	(1)		(2)		(3)		(4)	
Percentage Latino residents	0.94	(0.07)	1.02	(0.08)	0.96	(0.07)	1.01	(0.10)
Occupational prestige score	0.98	(0.06)	0.93	(0.06)	0.93	(0.05)	1.11	(0.09)
Percentage foreign-born residents	0.94	(0.05)	1.00	(0.05)	0.95	(0.04)	1.10	(0.09)
Percentage of residents who moved in preceding 12 months	0.95	(0.04)	1.01	(0.05)	0.99	(0.05)	0.96	(0.05)
Living in neighborhood with hospitals and clinics (omitted=no)	1.07	(0.09)	1.14	(0.10)	1.06	(0.09)	1.06	(0.11)
Resource factor score	0.96	(0.05)	0.94	(0.05)	0.95	(0.05)	0.93	(0.05)
Percentage of housing built before 1940	0.96	(0.04)	0.97	(0.04)	0.98	(0.04)	0.90 **	(0.04)
Violent crime rate per 1,000	1.21 *	(0.10)	1.02	(0.08)	1.12	(0.08)	1.14	(0.10)
Property crime rate per 1,000	0.87 **	(0.05)	1.07	(0.05)	0.94	(0.04)	1.01	(0.08)
Child abuse and neglect rate per 1,000	0.96	(0.05)	0.95	(0.05)	0.94	(0.04)	0.99	(0.05)
Neurological hazards index (rescaled by 100)	1.08	(0.06)	1.03	(0.07)	1.08	(0.05)	0.98	(0.09)
Respiratory hazards index (rescaled by 100)	0.96	(0.05)	0.94	(0.05)	0.93	(0.04)	1.02	(0.07)
Number of observations	389		379		448		320	
Number of clusters	288		267		246		185	
Number of failures	97		77		88		86	
Time at risk	5087		5126		6057		4156	
Sigma	0.37		0.35		0.33		0.36	
Log likelihood	-125.70		-108.10		-118.40		-106.60	
Chi-square	79.19 ***		78.91 ***		92.43 ***		76.53 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses; TmR=Time ratio

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-7. Standardized multilevel mixed-effects logistic models predicting repeating a grade by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.32 **	(0.14)	0.89	(0.75)
Latino	0.85	(0.38)	0.48	(0.30)				
First born in family (omitted=no)	1.45	(0.63)	0.73	(0.40)	1.96	(0.85)	0.20	(0.25)
Caregiver and household characteristics								
Number of siblings in household	0.78	(0.16)	0.66	(0.19)	0.77	(0.17)	0.50	(0.34)
Caregiver reported depressive symptomatology (omitted=no)	1.19	(0.55)	2.10	(1.21)	1.75	(0.91)	3.26	(4.41)
Caregiver age at time of child's birth	0.60	(0.17)	1.25	(0.28)	1.09	(0.21)	0.60	(0.42)
Caregiver immigrant status (omitted=no)[a]								
Caregiver history of substance abuse (omitted=no)	0.43	(0.27)	0.52	(0.47)	0.33	(0.28)	0.58	(0.91)
Caregiver disability status (omitted=not disabled)	0.62	(0.50)	0.66	(0.59)	0.88	(0.63)	0.36	(0.97)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.34	(0.61)	1.98	(1.27)	0.68	(0.31)	64.32	(140.08)
Post–high school technical certificate	1.78	(1.04)	0.80	(0.72)	1.80	(1.06)	3.09	(6.50)
College degree	1.66	(1.33)	0.65	(0.58)	0.38	(0.34)	7.16	(14.05)
Caregiver married/partnered (omitted=not married/partnered)	1.73	(0.68)	1.47	(0.89)	3.06 **	(1.27)	0.40	(0.56)
Log of caregiver earnings (in dollars)	0.96	(0.39)	0.70	(0.38)	1.13	(0.45)	0.34	(0.44)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	0.76	(0.62)	0.52	(0.58)	1.15	(0.93)	0.02	(0.06)
Household stressor scale	1.09	(0.22)	1.13	(0.33)	0.99	(0.24)	1.68	(1.06)
Household had health insurance (omitted=no)	1.88	(0.92)	0.97	(0.67)	1.54	(0.79)	3.36	(4.86)
Total number of moves from birth to first occurrence	0.98	(0.19)	0.40 *	(0.17)	0.83	(0.18)	1.03	(0.59)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	1.17	(0.61)	0.78	(0.52)	1.32	(0.75)	0.31	(0.37)
Last school attended was a nonpublic school (omitted=no)	0.59	(0.41)	1.21	(0.92)	1.61	(1.15)	0.08	(0.13)
Global indicator of teacher/counselor influence	0.83	(0.16)	1.19	(0.33)	1.01	(0.21)	1.48	(1.02)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.24	(0.71)	0.35	(0.24)	0.80	(0.50)	0.81	(1.08)
Social capital index	0.86	(0.17)	0.68	(0.18)	0.84	(0.17)	0.57	(0.35)
Social problems index	1.44	(0.42)	1.45	(0.48)	1.49	(0.47)	0.98	(0.71)
Social vulnerability score	7.51 **	(5.36)	2.68	(2.41)	5.48 *	(4.16)	5.84	(10.30)
Percentage African-American residents	0.65	(0.26)	1.51	(0.77)	2.55	(1.23)	0.16	(0.18)
Percentage Latino residents	1.78	(0.98)	1.76	(1.60)	3.13	(1.97)	0.05	(0.11)
Occupational prestige score	0.73	(0.31)	0.73	(0.54)	0.73	(0.35)	0.13	(0.20)

Percentage foreign-born residents	0.54	(0.22)	0.45	(0.25)	0.38 *	(0.17)	1.67	(2.33)
Percentage of residents who moved in preceding 12 months	0.61	(0.20)	0.68	(0.28)	0.65	(0.22)	0.23	(0.26)
Living in neighborhood with hospitals and clinics (omitted=no)	1.63	(1.11)	0.73	(0.62)	1.07	(0.82)	0.17	(0.33)
Resource factor score	1.55	(0.59)	1.47	(0.69)	1.66	(0.65)	3.20	(3.53)
Percentage of housing built before 1940	1.35	(0.40)	1.32	(0.51)	1.21	(0.43)	2.01	(1.48)
Violent crime rate per 1,000	0.12 ***	(0.07)	0.17 **	(0.11)	0.10 ***	(0.06)	0.13	(0.17)
Property crime rate per 1,000	2.02 *	(0.65)	4.09 ***	(1.64)	2.10 *	(0.66)	10.79	(14.20)
Child abuse and neglect rate per 1,000	0.66	(0.20)	0.89	(0.34)	0.71	(0.25)	1.35	(1.16)
Neurological hazards index (rescaled by 100)	1.01	(0.32)	1.08	(0.80)	1.06	(0.37)	1.78	(2.77)
Respiratory hazards index (rescaled by 100)	0.81	(0.28)	0.72	(0.43)	0.93	(0.35)	0.47	(0.56)
Number of observations	376		378		436		318	
Log likelihood	-108.00		-73.73		-104.40		-72.89	
Chi-square	47.09		38.27		56.55 *		8.53	
LR chi-square (XTME versus logistic)	0.00		0.00		0.00		2.28	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a] Caregiver immigrant status at birth was excluded from the analysis because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-8. Standardized Cox models predicting hazard of repeating a grade by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					0.37 **	(0.13)	0.94	(0.44)
Latino	0.78	(0.36)	0.51	(0.34)				
First born in family (omitted=no)	1.61	(0.63)	0.72	(0.36)	1.90	(0.68)	0.47	(0.28)
Caregiver and household characteristics								
Number of siblings in household	0.82	(0.17)	0.63	(0.22)	0.85	(0.16)	0.69	(0.23)
Caregiver reported depressive symptomatology (omitted=no)	0.97	(0.38)	2.06	(1.20)	1.56	(0.66)	1.01	(0.69)
Caregiver age at time of child's birth	0.70	(0.17)	1.13	(0.19)	1.14	(0.16)	0.78	(0.25)
Caregiver immigrant status (omitted=no)[a]								
Caregiver history of substance abuse (omitted=no)	0.64	(0.33)	0.70	(0.60)	0.54	(0.32)	1.11	(0.69)
Caregiver disability status (omitted=not disabled)	0.69	(0.42)	0.55	(0.40)	0.73	(0.39)	0.80	(1.03)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.07	(0.43)	2.25	(1.79)	0.72	(0.25)	8.44 **	(6.56)
Post–high school technical certificate	1.58	(0.73)	0.98	(0.92)	2.18	(1.02)	2.23	(2.07)
College degree	1.20	(1.34)	0.79	(0.67)	0.39	(0.37)	5.47	(7.38)
Caregiver married/partnered (omitted=not married/partnered)	1.53	(0.59)	1.62	(0.88)	2.25 *	(0.83)	1.22	(0.65)
Log of caregiver earnings (in dollars)	1.03	(0.44)	0.89	(0.34)	1.23	(0.45)	0.46	(0.43)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	1.03	(0.86)	0.74	(0.64)	1.22	(0.85)	0.12	(0.23)
Household stressor scale	1.10	(0.18)	1.18	(0.41)	1.07	(0.21)	1.27	(0.30)
Household had health insurance (omitted=no)	1.70	(0.78)	1.34	(0.82)	1.63	(0.71)	2.19	(1.84)
Total number of moves from birth to first occurrence	0.85	(0.20)	0.37 **	(0.14)	0.82	(0.20)	0.69	(0.30)
School characteristics								
Last school attended was a neighborhood school (omitted=no)	1.07	(0.60)	0.68	(0.34)	0.88	(0.41)	0.54	(0.29)
Last school attended was a nonpublic school (omitted=no)	0.51	(0.23)	1.00	(0.76)	0.86	(0.54)	0.35	(0.23)
Global indicator of teacher/counselor influence	0.91	(0.17)	1.11	(0.28)	1.09	(0.23)	1.01	(0.25)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	1.79	(1.00)	0.44	(0.37)	1.02	(0.52)	1.00	(0.68)
Social capital index	0.92	(0.18)	0.66	(0.22)	0.93	(0.16)	0.76	(0.21)
Social problems index	1.29	(0.29)	1.08	(0.45)	1.31	(0.32)	0.86	(0.31)
Social vulnerability score	5.95 **	(3.82)	2.51	(2.26)	4.48 *	(2.88)	1.86	(1.41)
Percentage African-American residents	0.69	(0.32)	1.44	(0.69)	2.42 *	(0.98)	0.31	(0.19)
Percentage Latino residents	1.78	(0.80)	1.31	(1.38)	2.97	(1.71)	0.18 *	(0.16)

Occupational prestige score	0.95	(0.35)	0.67	(0.53)	1.24	(0.50)	0.22	(0.19)
Percentage foreign-born residents	0.62	(0.19)	0.60	(0.42)	0.50	(0.22)	1.19	(0.58)
Percentage of residents who moved in preceding 12 months	0.56	(0.18)	0.69	(0.37)	0.64	(0.24)	0.62	(0.35)
Living in neighborhood with hospitals and clinics (omitted=no)	1.50	(1.07)	0.59	(0.51)	1.02	(0.69)	0.35	(0.36)
Resource factor score	1.54	(0.53)	1.45	(0.70)	1.58	(0.66)	1.63	(0.76)
Percentage of housing built before 1940	1.06	(0.31)	1.31	(0.52)	1.07	(0.32)	1.39	(0.45)
Violent crime rate per 1,000	0.23 *	(0.14)	0.24 *	(0.15)	0.22 ***	(0.08)	0.35	(0.24)
Property crime rate per 1,000	1.28	(0.36)	2.71 ***	(0.80)	1.54	(0.40)	2.05	(0.93)
Child abuse and neglect rate per 1,000	0.84	(0.22)	1.43	(0.60)	0.75	(0.24)	2.02	(0.75)
Neurological hazards index (rescaled by 100)	1.19	(0.30)	0.92	(0.63)	1.19	(0.34)	2.82	(2.14)
Respiratory hazards index (rescaled by 100)	0.78	(0.22)	0.91	(0.53)	0.86	(0.37)	0.41	(0.24)
Number of observations	376		378		436		318	
Number of clusters	279		270		243		180	
Number of failures	49		29		46		32	
Time at risk	4950		5153		5869		4234	
Log likelihood	-233.80		-132.70		-222.20		-141.50	
Chi-square	105.10 ***		144.10 ***		159.40 ***		71.45 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a] Caregiver immigrant status at birth was excluded from the analysis because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-9. Standardized multilevel mixed-effects logistic models predicting leaving school without a diploma by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.37	(0.62)	0.66	(0.37)
Latino	0.72	(0.45)	2.55	(1.80)				
First born in family (omitted=no)	0.45	(0.28)	1.37	(0.78)	0.51	(0.28)	1.43	(0.84)
Caregiver and household characteristics								
Number of siblings in household	0.96	(0.27)	0.81	(0.27)	1.30	(0.31)	0.71	(0.25)
Caregiver reported depressive symptomatology (omitted=no)	4.81 *	(3.13)	3.81 *	(2.33)	2.07	(1.12)	5.81 *	(4.11)
Caregiver age at time of child's birth	0.65	(0.22)	0.92	(0.31)	0.80	(0.22)	1.40	(0.58)
Caregiver immigrant status (omitted=no)[a]								
Caregiver history of substance abuse (omitted=no)	0.54	(0.43)	2.25	(1.49)	1.79	(1.29)	1.58	(1.15)
Caregiver disability status (omitted=not disabled)	1.13	(0.96)	2.91	(2.35)	2.52	(1.83)	0.38	(0.42)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.14	(0.70)	1.75	(1.15)	1.27	(0.65)	1.20	(1.07)
Post–high school technical certificate	1.04	(0.99)	1.65	(1.36)	0.59	(0.54)	2.34	(2.50)
College degree	0.35	(0.44)	0.52	(0.51)	0.93	(0.93)	0.28	(0.31)
Caregiver married/partnered (omitted=not married/partnered)	1.28	(0.76)	1.90	(0.97)	1.59	(0.75)	1.43	(0.95)
Log of caregiver earnings (in dollars)	1.69	(0.83)	1.38	(0.65)	0.95	(0.41)	2.63	(1.43)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	3.47	(3.31)	1.27	(1.16)	1.13	(0.93)	4.63	(4.71)
Household stressor scale	0.62	(0.21)	1.35	(0.39)	0.86	(0.25)	1.27	(0.41)
Household had health insurance (omitted=no)	5.11 *	(4.12)	0.37	(0.25)	0.56	(0.32)	5.58	(5.05)
Total number of moves from birth to first occurrence	0.65	(0.19)	1.07	(0.28)	0.76	(0.19)	1.05	(0.34)
School characteristics								
Last school attended was a neighborhood school (omitted=no)[a]								
Last school attended was a nonpublic school (omitted=no)	0.78	(0.66)	0.42	(0.31)	0.92	(0.65)	0.29	(0.26)
Global indicator of teacher/counselor influence	0.58 *	(0.16)	0.76	(0.19)	0.80	(0.18)	0.79	(0.23)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.74	(0.60)	4.33	(3.28)	1.58	(1.11)	1.69	(1.17)

Social capital index	1.20	(0.35)	0.95	(0.30)	1.19	(0.32)	0.92	(0.29)
Social problems index	2.92 *	(1.35)	0.96	(0.31)	1.60	(0.59)	0.94	(0.36)
Social vulnerability score	0.94	(0.61)	0.60	(0.42)	0.48	(0.38)	1.47	(0.96)
Percentage African-American residents	0.48	(0.24)	0.93	(0.45)	0.37	(0.24)	0.80	(0.40)
Percentage Latino residents	0.09 **	(0.08)	0.53	(0.40)	0.14 *	(0.11)	0.36	(0.33)
Occupational prestige score	0.13 *	(0.11)	0.06 ***	(0.05)	0.07 ***	(0.05)	0.17 *	(0.12)
Percentage foreign-born residents	1.24	(0.64)	0.15 **	(0.09)	0.71	(0.32)	0.45	(0.29)
Percentage of residents who moved in preceding 12 months	0.80	(0.28)	1.06	(0.34)	1.29	(0.43)	0.69	(0.24)
Living in neighborhood with hospitals and clinics (omitted=no)	1.19	(1.09)	0.22	(0.19)	0.29	(0.23)	0.38	(0.33)
Resource factor score	0.83	(0.42)	2.79	(1.53)	2.98 *	(1.50)	0.54	(0.27)
Percentage of housing built before 1940	1.35	(0.53)	4.49 **	(2.16)	2.32 *	(0.99)	3.02 **	(1.16)
Violent crime rate per 1,000	0.25 *	(0.15)	0.20 **	(0.12)	0.23 *	(0.14)	0.30 *	(0.17)
Property crime rate per 1,000	4.40 **	(2.45)	2.62 *	(1.07)	5.02 ***	(2.05)	1.65	(0.84)
Child abuse and neglect rate per 1,000	1.47	(0.52)	0.95	(0.52)	1.25	(0.49)	1.21	(0.56)
Neurological hazards index (rescaled by 100)	1.01	(0.47)	0.52	(0.30)	0.69	(0.28)	1.03	(0.72)
Respiratory hazards index (rescaled by 100)	0.63	(0.26)	1.26	(0.53)	1.12	(0.42)	0.45	(0.23)
Number of observations	280		291		329		242	
Log likelihood	-73.06		-69.89		-84.85		-59.69	
Chi-square	20.06		36.70		49.67 *		34.55	
LR chi-square (XTME versus logistic)	0.07		0.00		0.00		0.00	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a] Caregiver immigrant status and last school attended was a neighborhood school were excluded from the analysis because they were perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VII-10. Standardized Cox models predicting hazard of leaving school without a diploma by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values measured at time of first occurrence unless otherwise noted)								
Child characteristics								
Female					1.37	(0.45)	0.75	(0.32)
Latino	0.72	(0.32)	1.86	(1.04)				
First born in family (omitted=no)	0.68	(0.31)	1.33	(0.75)	0.56	(0.20)	1.31	(0.58)
Caregiver and household characteristics								
Number of siblings in household	0.88	(0.22)	0.76	(0.36)	1.08	(0.21)	0.59	(0.21)
Caregiver reported depressive symptomatology (omitted=no)	2.87 *	(1.23)	2.65 *	(1.14)	2.49	(1.21)	2.71 *	(1.25)
Caregiver age at time of child's birth	0.84	(0.16)	1.09	(0.34)	0.77	(0.17)	1.32	(0.44)
Caregiver immigrant status (omitted=no)[a]								
Caregiver history of substance abuse (omitted=no)	1.06	(0.58)	2.00	(1.36)	1.63	(1.00)	2.24	(1.52)
Caregiver disability status (omitted=not disabled)	0.87	(0.49)	2.01	(1.57)	1.46	(0.69)	2.75	(3.41)
Caregiver educational attainment (omitted=no degree)								
High school diploma	1.32	(0.73)	1.48	(1.16)	1.18	(0.43)	0.87	(0.66)
Post–high school technical certificate	1.38	(1.25)	3.51	(3.51)	1.28	(1.07)	3.98	(2.85)
College degree	0.74	(0.64)	0.66	(0.60)	0.69	(0.57)	0.32	(0.25)
Caregiver married/partnered (omitted=not married/partnered)	1.26	(0.60)	1.65	(0.65)	1.33	(0.55)	1.54	(0.92)
Log of caregiver earnings (in dollars)	1.32	(0.38)	1.50	(0.57)	0.86	(0.25)	2.19	(1.12)
Caregiver was available to monitor/supervise children full/part time (omitted=not available)	2.51	(1.85)	1.65	(1.40)	1.17	(0.73)	4.17	(4.88)
Household stressor scale	0.86	(0.23)	1.07	(0.31)	0.92	(0.23)	1.21	(0.40)
Household had health insurance (omitted=no)	2.65	(1.79)	0.75	(0.43)	0.56	(0.33)	3.68	(3.58)
Total number of moves from birth to first occurrence	0.72	(0.19)	0.99	(0.21)	0.67 *	(0.12)	1.09	(0.40)
School characteristics								
Last school attended was a neighborhood school (omitted=no)[a]								
Last school attended was a nonpublic school (omitted=no)	0.58	(0.37)	0.45	(0.30)	0.87	(0.54)	0.21 *	(0.15)
Global indicator of teacher/counselor influence	0.64	(0.18)	0.79	(0.21)	0.91	(0.16)	0.74	(0.32)
Neighborhood characteristics								
Living in neighborhood with negative peers (omitted=no)	0.93	(0.49)	3.78 *	(2.16)	1.17	(0.68)	1.90	(1.10)
Social capital index	1.16	(0.27)	0.94	(0.34)	1.00	(0.21)	1.17	(0.54)

	(1)		(2)		(3)		(4)	
Social problems index	1.89 *	(0.52)	1.06	(0.31)	1.60	(0.46)	1.28	(0.35)
Social vulnerability score	0.80	(0.46)	0.76	(0.35)	0.69	(0.37)	0.72	(0.52)
Percentage African-American residents	0.63	(0.19)	0.76	(0.33)	0.46	(0.19)	0.52	(0.22)
Percentage Latino residents	0.29 *	(0.17)	0.49	(0.38)	0.21 *	(0.13)	0.28	(0.20)
Occupational prestige score	0.48	(0.21)	0.18 *	(0.14)	0.27 **	(0.12)	0.22 **	(0.12)
Percentage foreign-born residents	1.44	(0.50)	0.36 *	(0.15)	1.59	(0.61)	0.43	(0.30)
Percentage of residents who moved in preceding 12 months	1.27	(0.35)	1.17	(0.34)	1.20	(0.31)	1.38	(0.46)
Living in neighborhood with hospitals and clinics (omitted=no)	1.29	(1.07)	0.41	(0.20)	0.49	(0.33)	0.41	(0.26)
Resource factor score	0.77	(0.42)	1.99	(1.20)	2.46	(1.29)	0.57	(0.36)
Percentage of housing built before 1940	1.01	(0.26)	2.48 *	(1.01)	1.51	(0.45)	1.81	(0.60)
Violent crime rate per 1,000	0.68	(0.35)	0.44	(0.25)	0.56	(0.22)	0.53	(0.25)
Property crime rate per 1,000	1.83 *	(0.52)	1.52	(0.59)	2.59 ***	(0.67)	0.85	(0.31)
Child abuse and neglect rate per 1,000	1.39	(0.32)	0.96	(0.51)	1.15	(0.33)	1.66	(0.59)
Neurological hazards index (rescaled by 100)	0.94	(0.40)	0.66	(0.33)	0.71	(0.25)	1.37	(1.01)
Respiratory hazards index (rescaled by 100)	0.85	(0.31)	1.23	(0.59)	1.36	(0.43)	0.46	(0.24)
Number of observations	280		291		329		242	
Number of clusters	206		210		188		143	
Number of failures	41		34		46		29	
Time at risk	4407		4584		5172		3819	
Log likelihood	-178.40		-149.00		-207.10		-116.00	
Chi-square	155.50 ***		138.90 ***		131.30 ***		196.20 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a] Caregiver immigrant status and last school attended was a neighborhood school were excluded from the analysis because they were perfectly predictive.

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VIII-1. Standardized logit models predicting teen employment by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.35	(0.44)	0.31	(0.19)
Latino	0.20 **	(0.11)	1.64	(0.82)				
First born in family (omitted=no)	1.32	(0.62)	1.32	(0.46)	1.03	(0.40)	2.24	(1.32)
Age when first worked during high school (omitted=age 14)								
Age 15	0.03 *	(0.05)	0.11 *	(0.10)	0.29	(0.25)	—[a]	—[a]
Age 16	0.94	(0.61)	0.09 **	(0.08)	0.47	(0.31)	0.03 ***	(0.03)
Age 17	0.63	(0.34)	1.11	(0.67)	0.92	(0.48)	1.01	(0.83)
Caregiver and household characteristics								
Number of siblings in household	0.69	(0.15)	0.83	(0.18)	0.85	(0.18)	0.56	(0.23)
Caregiver reported depressive symptomatology (omitted=no)	2.20	(1.05)	0.71	(0.30)	1.65	(0.78)	1.97	(1.33)
Caregiver age at time of child's birth	0.71	(0.15)	0.94	(0.27)	0.64 *	(0.14)	1.07	(0.58)
Caregiver immigrant status (omitted=no)	2.61	(1.38)	0.27 *	(0.17)	1.12	(0.48)	0.02 **	(0.03)
Caregiver history of substance abuse (omitted=no)	0.58	(0.30)	0.96	(0.60)	1.74	(1.01)	0.42	(0.28)
Proportion of high school stage caregiver was disabled	0.72 *	(0.12)	1.05	(0.18)	0.92	(0.15)	1.11	(0.29)
Caregiver educational attainment when child first worked (omitted=no degree)								
High school diploma	1.44	(0.60)	0.70	(0.37)	1.12	(0.45)	0.82	(0.67)
Post–high school technical certificate	0.57	(0.34)	0.90	(0.54)	1.02	(0.61)	0.11	(0.13)
College degree	0.48	(0.29)	0.84	(0.55)	0.97	(0.74)	0.88	(0.67)
Proportion of high school stage with two caregivers present in household	0.96	(0.18)	0.84	(0.17)	0.91	(0.16)	0.67	(0.18)
Log of average caregiver earnings (in dollars)	2.65 **	(0.95)	1.29	(0.50)	1.24	(0.40)	5.86 ***	(3.06)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	3.24	(2.34)	0.77	(0.56)	0.92	(0.56)	5.99	(6.34)
Household stressor scale	0.70	(0.18)	0.72	(0.13)	0.57 *	(0.13)	0.98	(0.27)
Proportion of high school stage when household had health insurance	0.93	(0.18)	1.22	(0.24)	1.15	(0.19)	1.02	(0.29)
Total number of moves during high school stage	0.73	(0.16)	0.85	(0.14)	0.94	(0.14)	0.80	(0.18)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child first worked	1.15	(0.19)	0.98	(0.17)	0.86	(0.13)	1.50	(0.42)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers	1.03	(0.25)	1.22	(0.29)	1.03	(0.28)	0.75	(0.25)
Social capital index	1.42	(0.27)	1.03	(0.22)	1.20	(0.23)	1.20	(0.34)

	(1)		(2)		(3)		(4)	
Social problems index	1.79	(0.55)	1.17	(0.28)	1.19	(0.37)	1.41	(0.60)
Social vulnerability score	0.75	(0.34)	0.62	(0.26)	0.54	(0.28)	0.20 *	(0.15)
Percentage African-American residents	0.61	(0.21)	0.76	(0.24)	1.13	(0.53)	0.47	(0.20)
Percentage Latino residents	0.64	(0.34)	0.50	(0.26)	0.55	(0.29)	0.32	(0.25)
Occupational prestige score	0.53	(0.19)	0.61	(0.28)	0.52	(0.19)	0.43	(0.27)
Percentage foreign-born residents	0.90	(0.32)	1.06	(0.37)	0.73	(0.26)	1.59	(0.85)
Percentage of residents who moved in preceding 12 months	1.23	(0.37)	1.45	(0.33)	1.41	(0.38)	0.92	(0.31)
Proportion of high school stage living in neighborhood with hospitals and clinics	1.60	(0.43)	1.43	(0.32)	0.93	(0.20)	1.94 *	(0.59)
Resource factor score	0.94	(0.31)	0.59	(0.21)	0.86	(0.27)	1.04	(0.50)
Percentage of housing built before 1940	1.25	(0.29)	1.35	(0.32)	2.09 **	(0.51)	0.85	(0.30)
Violent crime rate per 1,000	0.40	(0.20)	0.48	(0.23)	1.10	(0.51)	0.17 *	(0.13)
Property crime rate per 1,000	1.62	(0.50)	2.03	(0.74)	1.35	(0.46)	7.44 **	(5.00)
Child abuse and neglect rate per 1,000	1.72 *	(0.45)	1.73	(0.61)	1.34	(0.36)	8.71 ***	(5.31)
Number of observations	222		222		258		166	
Number of clusters	171		166		158		102	
Log likelihood	-113.20		-113.30		-140.30		-67.38	
Chi-square	58.66 **		49.03		59.67 **		74.09 ***	
Pseudo-R^2	0.26		0.25		0.20		0.41	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Age 15 was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VIII-2. Standardized logit models predicting teen employment for 20+ hours per week by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.21	(0.45)	0.58	(0.39)
Latino	0.15 **	(0.09)	0.82	(0.49)				
First born in family (omitted=no)	0.86	(0.40)	1.83	(0.66)	0.60	(0.26)	2.41	(1.14)
Age when first worked during high school (omitted=age 14)								
Age 15[a]								
Age 16	1.55	(1.09)	0.09 **	(0.07)	0.94	(0.66)	0.03 ***	(0.03)
Age 17	0.48	(0.29)	0.54	(0.37)	0.90	(0.56)	0.10 *	(0.10)
Caregiver and household characteristics								
Number of siblings in household	0.97	(0.18)	1.00	(0.25)	1.27	(0.26)	0.69	(0.27)
Caregiver reported depressive symptomatology (omitted=no)	1.30	(0.71)	0.45	(0.23)	0.94	(0.49)	0.73	(0.53)
Caregiver age at time of child's birth	0.68	(0.16)	1.19	(0.33)	0.67	(0.15)	1.17	(0.53)
Caregiver immigrant status (omitted=no)	2.64	(1.38)	0.64	(0.40)	1.40	(0.61)	0.01 **	(0.02)
Caregiver history of substance abuse (omitted=no)	0.37	(0.22)	1.12	(0.67)	2.50	(1.47)	0.06 **	(0.06)
Proportion of high school stage caregiver was disabled	0.94	(0.16)	0.98	(0.18)	0.97	(0.17)	1.60	(0.48)
Caregiver educational attainment when child first worked (omitted=no degree)								
High school diploma	1.03	(0.49)	1.70	(1.01)	1.99	(0.87)	0.09 *	(0.08)
Post–high school technical certificate	0.36	(0.27)	2.48	(1.83)	1.03	(0.79)	0.10 *	(0.10)
College degree	0.60	(0.42)	2.64	(1.98)	1.29	(1.09)	0.41	(0.39)
Proportion of high school stage with two caregivers present in household	0.93	(0.18)	0.86	(0.18)	0.97	(0.18)	0.42 **	(0.13)
Log of average caregiver earnings (in dollars)	2.52 **	(0.85)	0.97	(0.38)	0.77	(0.26)	9.21 ***	(5.64)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	3.80 *	(2.51)	1.02	(0.75)	0.51	(0.36)	17.62 *	(20.78)
Household stressor scale	0.74	(0.18)	0.86	(0.20)	0.87	(0.25)	0.59	(0.19)
Proportion of high school stage when household had health insurance	0.78	(0.17)	1.04	(0.22)	1.02	(0.19)	0.74	(0.25)
Total number of moves during high school stage	0.92	(0.20)	0.95	(0.16)	1.21	(0.20)	0.56 *	(0.16)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child first worked	1.79 **	(0.35)	1.27	(0.22)	1.16	(0.19)	2.32 **	(0.68)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers	1.54	(0.41)	1.42	(0.41)	1.34	(0.41)	1.06	(0.36)

Social capital index	1.42	(0.26)	0.83	(0.20)	1.05	(0.21)	0.97	(0.32)
Social problems index	1.17	(0.38)	0.72	(0.20)	0.78	(0.26)	1.10	(0.47)
Social vulnerability score	1.02	(0.44)	0.61	(0.27)	0.76	(0.40)	0.34	(0.19)
Percentage African-American residents	0.61	(0.21)	0.62	(0.23)	1.20	(0.54)	0.78	(0.33)
Percentage Latino residents	0.71	(0.42)	0.46	(0.29)	0.84	(0.54)	1.21	(0.99)
Occupational prestige score	0.46 *	(0.18)	0.38	(0.20)	0.39 *	(0.16)	0.64	(0.43)
Percentage foreign-born residents	0.71	(0.29)	0.99	(0.39)	0.49	(0.21)	1.18	(0.64)
Percentage of residents who moved in preceding 12 months	1.20	(0.37)	1.53	(0.39)	1.62	(0.48)	1.06	(0.37)
Proportion of high school stage living in neighborhood with hospitals and clinics	1.46	(0.40)	1.42	(0.31)	0.86	(0.18)	3.54 ***	(1.23)
Resource factor score	0.52	(0.21)	1.24	(0.42)	1.15	(0.37)	0.49	(0.27)
Percentage of housing built before 1940	1.11	(0.27)	1.23	(0.35)	1.38	(0.39)	0.69	(0.25)
Violent crime rate per 1,000	0.39 *	(0.19)	0.72	(0.40)	0.62	(0.31)	0.26 *	(0.15)
Property crime rate per 1,000	1.33	(0.44)	0.95	(0.42)	1.24	(0.38)	1.31	(0.77)
Child abuse and neglect rate per 1,000	0.98	(0.31)	1.76	(0.69)	1.00	(0.27)	5.86 **	(3.37)
Number of observations	202		197		233		166	
Number of clusters	155		148		142		102	
Log likelihood	-102.90		-98.67		-113.70		-61.85	
Chi-square	42.34		38.61		48.72		67.05 ***	
Pseudo-R^2	0.18		0.17		0.16		0.42	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Age 15 was excluded from the analysis because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VIII-3. Standardized Tobit models predicting teen weekly hours worked by gender and ethnicity

	Male		Female		Latino		African American	
	Coeff.	SE	Coeff.	SE	Coeff.	SE	Coeff.	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

Child characteristics

	Male Coeff.	SE	Female Coeff.	SE	Latino Coeff.	SE	African American Coeff.	SE
Female					1.63	(3.12)	-6.05	(3.28)
Latino	-14.34 **	(4.69)	2.15	(4.22)				
First born in family (omitted=no)	2.11	(3.70)	2.97	(3.58)	-0.78	(3.51)	4.75	(3.51)
Age when first worked during high school (omitted=age 14)								
Age 15	-31.35 **	(10.25)	-25.95 **	(7.85)	-13.10	(7.45)	-163.72	(0.00)
Age 16	0.12	(6.61)	-22.71 **	(7.22)	-6.69	(6.47)	-22.18 **	(6.76)
Age 17	-6.69	(5.35)	-0.44	(5.70)	-3.18	(5.40)	-5.73	(5.46)
Caregiver and household characteristics								
Number of siblings in household	-2.70	(1.85)	-1.22	(2.02)	-0.73	(1.74)	-4.67 *	(2.15)
Caregiver reported depressive symptomatology (omitted=no)	6.39	(3.99)	-5.73	(4.27)	3.97	(3.96)	0.99	(4.52)
Caregiver age at time of child's birth	-2.97	(2.03)	1.18	(2.33)	-3.97 *	(1.85)	0.56	(2.64)
Caregiver immigrant status (omitted=no)	10.62 *	(5.03)	-11.79 *	(5.78)	3.16	(4.32)	-27.26 *	(11.86)
Caregiver history of substance abuse (omitted=no)	-4.50	(5.28)	-0.30	(4.75)	7.20	(5.40)	-7.37	(4.70)
Proportion of high school stage caregiver was disabled	-2.06	(1.83)	-0.05	(1.70)	-0.43	(1.59)	-0.28	(2.06)
Caregiver educational attainment when child first worked (omitted=no degree)								
High school diploma	2.64	(3.91)	-0.74	(4.22)	3.12	(3.57)	-4.78	(4.86)
Post–high school technical certificate	-5.55	(5.59)	1.51	(5.36)	-0.49	(5.04)	-11.90	(6.03)
College degree	-4.88	(6.12)	2.38	(5.57)	2.99	(6.76)	-0.39	(5.40)
Proportion of high school stage with two caregivers present in household	-0.31	(1.73)	-0.90	(1.77)	-0.51	(1.63)	-2.78	(1.96)
Log of average caregiver earnings (in dollars)	9.66 **	(3.00)	1.57	(3.29)	2.12	(2.93)	11.56 **	(3.53)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	10.59	(5.90)	-2.57	(6.13)	-1.05	(5.79)	13.26	(7.00)
Household stressor scale	-3.21	(1.92)	-3.38	(1.75)	-4.64 *	(2.01)	-0.71	(1.78)
Proportion of high school stage when household had health insurance	-0.88	(1.83)	1.73	(1.79)	1.07	(1.69)	-0.58	(1.94)
Total number of moves during high school stage	-1.58	(1.80)	-0.88	(1.57)	0.45	(1.51)	-1.29	(1.65)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child first worked	2.60	(1.68)	-0.09	(1.66)	-1.26	(1.54)	3.15	(1.79)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers	2.05	(2.14)	3.28	(2.17)	1.16	(2.20)	1.55	(1.98)
Social capital index	2.57	(1.75)	-0.95	(2.01)	1.08	(1.70)	-0.59	(1.93)

Social problems index	3.57	(2.58)	-0.77	(2.30)	0.31	(2.56)	0.39	(2.36)
Social vulnerability score	-2.30	(4.16)	-6.67	(4.03)	-7.07	(4.90)	-9.99 *	(3.92)
Percentage African-American residents	-5.42	(2.84)	-3.64	(3.14)	1.68	(4.20)	-5.21	(2.72)
Percentage Latino residents	-6.49	(4.34)	-7.35	(4.86)	-4.95	(4.50)	-7.26	(5.02)
Occupational prestige score	-8.10 *	(3.13)	-7.49	(3.87)	-7.64 *	(3.05)	-6.65	(4.01)
Percentage foreign-born residents	-0.16	(3.26)	0.37	(3.09)	-3.71	(3.30)	3.86	(3.63)
Percentage of residents who moved in preceding 12 months	1.66	(2.53)	3.69	(2.27)	3.92	(2.47)	0.83	(2.37)
Proportion of high school stage living in neighborhood with hospitals and clinics	4.02 *	(1.88)	2.71	(1.86)	-1.39	(1.85)	5.78 **	(1.95)
Resource factor score	-2.18	(3.06)	-2.52	(3.11)	-1.07	(2.92)	-0.33	(3.01)
Percentage of housing built before 1940	2.79	(2.01)	3.35	(2.17)	7.13 **	(2.16)	-0.69	(2.11)
Violent crime rate per 1,000	-7.54 *	(3.49)	-6.45	(4.12)	0.42	(4.22)	-9.72 **	(3.61)
Property crime rate per 1,000	3.39	(3.06)	4.29	(3.38)	2.02	(3.06)	8.60 *	(3.84)
Child abuse and neglect rate per 1,000	3.83	(2.50)	7.90 *	(3.40)	3.27	(2.55)	14.35 ***	(3.46)
Constant	3.83	(2.50)	7.90 *	(3.40)	3.27	(2.55)	14.35 ***	(3.46)
Ancillary parameter	18.66 ***	(1.50)	18.53 ***	(1.54)	19.15 ***	(1.49)	15.48 ***	(1.32)
Number of observations	220		222		258		184	
Log likelihood	-494.82		-468.19		-551.80		-390.18	
Chi-square	74.73 ***		76.55 ***		70.31 ***		122.40 ***	
Pseudo-R^2	0.07		0.08		0.06		0.14	

Notes:

Tobit coefficients presented; standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VIII-4. Standardized multilevel mixed-effects logistic model predicting full-time employment among young adults by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					0.70	(0.31)	0.73	(0.44)
Latino	3.65	(2.55)	1.68	(1.04)				
First born in family (omitted=no)	0.33 *	(0.19)	0.77	(0.42)	0.28 *	(0.15)	1.69	(1.17)
Age when first worked since turning age 18	3.37 **	(1.36)	2.97 **	(1.15)	4.94 **	(2.53)	2.88 *	(1.38)
Caregiver and household characteristics								
Number of siblings in household	0.92	(0.26)	1.11	(0.30)	0.86	(0.24)	0.86	(0.32)
Caregiver reported depressive symptomatology (omitted=no)	0.83	(0.48)	0.77	(0.44)	2.15	(1.45)	0.28	(0.27)
Caregiver age at time of child's birth	0.77	(0.23)	1.39	(0.45)	0.61	(0.17)	1.37	(0.58)
Caregiver immigrant status (omitted=no)	2.57	(1.94)	0.40	(0.32)	2.90	(2.09)	0.18	(0.30)
Caregiver history of substance abuse (omitted=no)	1.29	(0.82)	1.24	(0.77)	0.82	(0.68)	2.39	(1.93)
Proportion of high school stage caregiver was disabled	0.85	(0.24)	0.60 *	(0.15)	0.50 *	(0.15)	1.14	(0.40)
Caregiver educational attainment when child was age 18 (omitted=no degree)								
High school diploma	1.15	(0.66)	1.12	(0.67)	1.73	(1.01)	0.13 *	(0.11)
Post–high school technical certificate	0.71	(0.66)	0.74	(0.68)	1.09	(1.09)	0.05 *	(0.07)
College degree	0.33	(0.32)	0.96	(0.77)	2.67	(2.69)	0.19	(0.20)
Proportion of high school stage with two caregivers present in household	1.01	(0.26)	0.64	(0.16)	0.78	(0.20)	0.95	(0.34)
Log of average caregiver earnings (in dollars)	1.89	(0.83)	2.06	(0.97)	2.10	(1.02)	1.65	(1.15)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	0.89	(0.76)	7.59 *	(7.42)	2.07	(1.90)	0.87	(1.14)
Household stressor scale	1.28	(0.40)	0.47 *	(0.14)	1.04	(0.36)	1.22	(0.47)
Proportion of high school stage when household had health insurance	1.15	(0.31)	0.86	(0.22)	1.37	(0.37)	0.69	(0.23)
Total number of moves during high school stage	1.00	(0.27)	1.02	(0.25)	0.83	(0.21)	1.13	(0.41)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child turned 18	0.84	(0.18)	0.68	(0.16)	0.66	(0.17)	0.79	(0.21)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers	1.64	(0.54)	1.75	(0.56)	1.26	(0.45)	2.11	(0.87)
Social capital index	1.17	(0.31)	0.97	(0.28)	2.13 *	(0.75)	0.91	(0.33)
Social problems index	1.06	(0.39)	2.41 **	(0.75)	1.43	(0.52)	1.35	(0.57)
Social vulnerability score	0.45	(0.24)	0.57	(0.27)	0.55	(0.28)	0.34	(0.27)
Percentage African-American residents	0.63	(0.29)	0.90	(0.40)	1.42	(1.05)	0.27 *	(0.17)
Percentage Latino residents	0.22 *	(0.15)	0.71	(0.49)	0.58	(0.42)	0.06 *	(0.07)

Occupational prestige score	0.53	(0.29)	1.43	(0.73)	1.28	(0.69)	0.24	(0.22)
Percentage foreign-born residents	3.07 *	(1.63)	1.77	(0.84)	3.20 *	(1.86)	4.17	(3.36)
Percentage of residents who moved in preceding 12 months	0.85	(0.31)	0.95	(0.30)	1.03	(0.38)	0.46	(0.22)
Percentage of high school stage living in neighborhood with hospitals and clinics	1.42	(0.38)	1.05	(0.31)	1.17	(0.33)	0.96	(0.37)
Resource factor score	0.38 *	(0.18)	0.39	(0.19)	0.29 *	(0.15)	0.44	(0.29)
Percentage of housing built before 1940	2.01 *	(0.66)	0.58	(0.19)	2.14	(1.01)	1.06	(0.46)
Violent crime rate per 1,000	3.40	(2.47)	1.21	(0.62)	1.53	(1.22)	0.55	(0.45)
Property crime rate per 1,000	1.04	(0.49)	2.04	(1.09)	1.03	(0.53)	5.25	(4.99)
Child abuse and neglect rate per 1,000	0.51	(0.29)	0.87	(0.46)	0.88	(0.45)	4.37	(3.58)
Number of observations	170		153		191		132	
Log likelihood	-75.64		-76.47		-93.13		-54.26	
Chi-square	41.76		30.40		21.69		30.97	
LR chi-square (XTME versus logistic)	0.00		0.00		0.20		0.00	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-VIII-5. Standardized multilevel mixed-effects logistic models predicting post-secondary education among young adults by gender and ethnicity

	Male[a]		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					18.50 **	(20.00)	14.70	(22.70)
Latino			1.65	(1.45)				
First born in family (omitted=no)			1.07	(0.76)	4.39	(4.71)	1.45	(2.10)
Age when first worked since turning age 18			1.42	(0.77)	0.58	(0.51)	0.34	(0.36)
Caregiver and household characteristics								
Number of siblings in household			0.72	(0.24)	0.36	(0.22)	8.03	(9.19)
Caregiver reported depressive symptomatology (omitted=no)			1.52	(1.37)	1.73	(1.76)	1.54	(3.44)
Caregiver age at time of child's birth			1.43	(0.59)	2.79	(1.52)	11.70	(16.20)
Caregiver immigrant status (omitted=no)			6.84 *	(6.46)	1.18	(1.56)	0.54	(1.43)
Caregiver history of substance abuse (omitted=no)			0.36	(0.37)	2.13	(2.48)	4.13	(11.20)
Proportion of high school stage caregiver was disabled			0.96	(0.30)	1.43	(0.58)	5.37	(6.63)
Caregiver educational attainment when child was age 18 (omitted=no degree)								
High school diploma			0.95	(0.77)	1.96	(1.73)	0.07	(0.15)
Post–high school technical certificate			1.14	(1.48)	9.67	(17.20)	0.00	(0.00)
College degree			6.07	(6.90)	0.14	(0.29)	0.16	(0.34)
Proportion of high school stage with two caregivers present in household			0.47	(0.19)	0.75	(0.36)	0.06 *	(0.08)
Log of average caregiver earnings (in dollars)			0.34	(0.27)	0.22	(0.19)	0.24	(0.43)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)			0.11	(0.17)	0.07	(0.12)	0.00	(0.00)
Household stressor scale			1.66	(0.57)	1.79	(1.28)	1.35	(1.35)
Proportion of high school stage when household had health insurance			1.00	(0.37)	0.54	(0.26)	0.16	(0.18)
Total number of moves during high school stage			0.85	(0.35)	3.25 *	(1.81)	1.69	(1.37)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child turned 18			1.05	(0.35)	1.64	(0.75)	1.24	(0.94)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers			1.07	(0.48)	0.35	(0.25)	5.68	(7.89)
Social capital index			1.67	(0.66)	0.52	(0.25)	8.70 *	(9.42)
Social problems index			0.65	(0.26)	4.03 *	(2.68)	4.16	(4.20)
Social vulnerability score			5.37	(5.03)	13.10 *	(15.70)	26.80	(78.50)
Percentage African-American residents			0.71	(0.49)	0.01 *	(0.02)	25.90	(60.90)
Percentage Latino residents			0.24	(0.26)	0.06 *	(0.08)	41.50	(137.00)
Occupational prestige score			3.02	(2.74)	0.88	(0.83)	283.80	(927.90)
Percentage foreign-born residents			10.10 **	(7.46)	13.70 *	(15.10)	3.29	(5.79)
Percentage of residents who moved in preceding 12 months			0.50	(0.23)	0.25	(0.22)	0.26	(0.35)

Percent of high school stage living in neighborhood with hospitals and clinics	2.32	(1.02)	4.68 *	(3.22)	0.11	(0.20)
Resource factor score	0.62	(0.40)	2.22	(1.58)	0.16	(0.41)
Percentage of housing built before 1940	0.88	(0.46)	0.84	(0.50)	0.11 *	(0.11)
Violent crime rate per 1,000	8.90 *	(8.55)	2.95	(4.71)	1299.50 **	(3441.00)
Property crime rate per 1,000	0.08 *	(0.09)	0.22	(0.27)	0.24	(0.59)
Child abuse and neglect rate per 1,000	0.78	(0.72)	1.83	(1.71)	0.00 **	(0.00)
Number of observations	153		191		132	
Log likelihood	-49.62		-34.66		-24.86	
Chi-square	21.52		18.52		15.46	
LR chi-square (XTME versus logistic)	0.00		0.00		0.00	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Model for male stratum could not be estimated.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-VIII-6. Standardized logit models predicting young adult was neither in school nor employed by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					0.74	(0.50)	3.75	(3.65)
Latino	0.40	(0.35)	0.01 *	(0.01)				
First born in family (omitted=no)	0.47	(0.36)	3.20	(4.80)	0.69	(0.48)	0.18	(0.24)
Age when first worked since turning age 18	0.26 *	(0.15)	0.44	(0.35)	0.42	(0.19)	0.18	(0.22)
Caregiver and household characteristics								
Number of siblings in household	1.14	(0.36)	0.74	(0.39)	1.18	(0.33)	1.33	(0.70)
Caregiver reported depressive symptomatology (omitted=no)	2.32	(1.80)	1.33	(2.51)	1.61	(1.24)	7196.38	(34365.41)
Caregiver age at time of child's birth	0.50	(0.21)	1.47	(0.96)	0.81	(0.31)	0.07 *	(0.09)
Caregiver immigrant status (omitted=no)	0.27	(0.26)	0.36	(0.45)	0.40	(0.35)	14.69	(41.33)
Caregiver history of substance abuse (omitted=no)	0.83	(0.99)	—ᵃ	—ᵃ	0.32	(0.43)	0.03 *	(0.05)
Proportion of high school stage caregiver was disabled	0.73	(0.36)	1.53	(0.74)	1.37	(0.37)	—ᵇ	—ᵇ
Caregiver educational attainment when child was age 18 (omitted=no degree)								
High school diploma	0.41	(0.29)	1.75	(1.73)	0.41	(0.25)	9.16	(11.97)
Post–high school technical certificate	2.05	(3.08)	18.59	(43.19)	1.70	(1.77)	53.55	(143.11)
College degree	1.38	(1.25)	—ᶜ	—ᶜ	1.16	(1.09)	213.11 *	(573.58)
Proportion of high school stage with two caregivers present in household	0.93	(0.35)	0.68	(0.41)	0.75	(0.20)	0.10	(0.12)
Natural log of average caregiver earnings (in dollars)	0.40 *	(0.18)	0.01 *	(0.01)	0.20 **	(0.10)	0.27	(0.33)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	1.37	(1.22)	0.00	(0.01)	0.38	(0.38)	529.53	(2993.41)
Household stressor scale	0.48	(0.19)	2.27	(1.45)	1.16	(0.54)	0.03 *	(0.05)
Proportion of high school stage when household had health insurance	0.78	(0.24)	1.42	(0.75)	0.89	(0.25)	9.48	(15.21)
Total number of moves during high school stage	1.29	(0.46)	0.20	(0.19)	0.97	(0.26)	0.23	(0.25)
Macroeconomic characteristics								
Annual growth rate in U.S. GDP during year when child turned 18	0.78	(0.26)	0.31	(0.28)	0.51 *	(0.15)	1.64	(1.62)
Neighborhood characteristics								
Proportion of high school stage spent in neighborhood with negative peers	1.46	(0.62)	0.26	(0.19)	0.95	(0.29)	39.86	(80.08)
Social capital index	1.40	(0.43)	1.33	(0.96)	1.22	(0.34)	0.43	(0.55)
Social problems index	0.60	(0.23)	1.37	(1.16)	0.25 **	(0.13)	0.16	(0.19)
Social vulnerability score	1.75	(1.39)	0.04	(0.07)	1.09	(0.96)	0.02	(0.09)
Percentage African-American residents	1.59	(1.07)	0.08	(0.11)	0.75	(0.51)	66.13 *	(138.43)
Percentage Latino residents	5.18	(5.06)	1.78	(3.72)	3.22	(2.45)	246.38	(891.08)
Occupational prestige score	0.51	(0.45)	0.02 *	(0.04)	0.37	(0.21)	0.25	(0.68)
Percentage foreign-born residents	0.30	(0.24)	0.26	(0.33)	0.39	(0.22)	0.32	(0.71)
Percentage of residents who moved in preceding 12 months	1.63	(0.79)	4.77	(4.23)	2.06	(0.95)	58.63 *	(114.86)
Percent of high school stage living in neighborhood with hospitals and clinics	0.73	(0.33)	2.14	(1.70)	0.67	(0.27)	13.41	(22.72)
Resource factor score	2.52	(1.59)	0.39	(0.52)	1.24	(0.79)	0.20	(0.21)

Percentage of housing built before 1940	0.86	(0.49)	3.75	(4.42)	1.49	(0.60)	2.22	(2.40)
Violent crime rate per 1,000	0.05 *	(0.06)	0.01 *	(0.03)	0.50	(0.39)	0.00	(0.00)
Property crime rate per 1,000	2.47	(1.43)	3.36	(4.74)	0.79	(0.38)	465.27	(2417.08)
Child abuse and neglect rate per 1,000	1.92	(1.04)	51.98 *	(103.62)	2.15	(0.99)	12.14	(26.61)
Number of observations	170		113		191		123	
Number of clusters	133		88		114		74	
Log likelihood	-53.77		-24.25		-60.71		-21.45	
Chi-square	47.93		109.60 ***		67.94 ***		349.90 ***	
Pseudo-R^2	0.33		0.57		0.30		0.62	

Notes:

Logistic models were used for this outcome because of convergence problems with XTME logit models.

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver history of substance abuse was excluded from the analysis in the female stratum because it was perfectly predictive.

[b]Proportion of high school stage caregiver was disabled was excluded from the analysis in the African-American stratum because it was perfectly predictive.

[c]College degree was excluded from the analysis in the male stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IX-1. Standardized logit models predicting marriage or cohabitation between the ages of 15 and 24 by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					2.29 *	(0.90)	0.73	(0.58)
African American	0.50	(0.58)	0.33	(0.21)				
First born in family (omitted=no)	1.50	(0.87)	3.06	(1.78)	2.18	(1.03)	2.03	(1.90)
Had a child prior to marriage/cohabitation (omitted=no)	25.11 ***	(17.87)	20.35 ***	(12.73)	16.79 ***	(9.67)	65.93 ***	(69.20)
Caregiver and household characteristics								
Number of siblings in household	1.55	(0.40)	0.93	(0.24)	1.12	(0.25)	0.58	(0.31)
Caregiver reported depressive symptomatology (omitted=no)	0.75	(0.48)	1.16	(0.52)	0.67	(0.28)	1.16	(1.42)
Caregiver age at time of child's birth	1.32	(0.42)	0.52 *	(0.15)	1.01	(0.26)	0.13 *	(0.10)
Caregiver immigrant status (omitted=no)	0.44	(0.36)	2.34	(1.65)	0.49	(0.25)	118.99 *	(226.68)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.75	(0.46)	1.01	(0.54)	0.61	(0.25)	2.00	(2.49)
Post–high school technical certificate or college degree	2.34	(2.81)	6.40 **	(4.27)	1.36	(0.93)	12.81 *	(13.13)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	2.95	(1.80)	1.39	(0.61)	1.95	(0.87)	1.90	(2.08)
Natural log of average caregiver earnings (in dollars)	2.06	(0.86)	0.92	(0.42)	1.22	(0.40)	1.01	(0.83)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	2.99	(2.48)	0.52	(0.42)	0.73	(0.41)	3.27	(4.81)
Household stressor scale	0.61	(0.18)	1.08	(0.29)	0.92	(0.27)	1.24	(0.69)
Household had health insurance during all of high school stage (omitted=no)	2.29	(1.21)	2.33	(1.19)	2.22	(1.01)	0.66	(0.57)
Total number of moves during high school stage	1.29	(0.38)	1.16	(0.27)	1.16	(0.23)	1.69	(0.72)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.69	(0.46)	1.10	(0.62)	0.77	(0.49)	1.13	(1.12)
Social capital index	0.98	(0.26)	1.51	(0.39)	1.10	(0.23)	1.99	(0.92)
Social problems index	2.30 *	(0.87)	1.36	(0.48)	1.42	(0.45)	4.49 *	(2.89)
Social vulnerability score	0.37	(0.35)	0.33	(0.19)	1.11	(0.69)	0.01 ***	(0.02)
Percentage African-American residents	0.87	(0.66)	0.36 **	(0.14)	0.91	(0.59)	0.15 **	(0.10)
Percentage Latino residents	0.54	(0.55)	0.23 *	(0.17)	0.40	(0.27)	0.24	(0.28)
Occupational prestige score	0.06	(0.10)	0.18 **	(0.10)	0.28 *	(0.15)	0.01 ***	(0.01)

Percentage foreign-born residents	0.68	(0.35)	0.65	(0.31)	0.98	(0.41)	0.06 **	(0.06)
Percentage of residents who moved in preceding 12 months	1.13	(0.40)	1.01	(0.34)	1.26	(0.35)	1.40	(0.60)
Resource factor score	2.20	(1.11)	0.92	(0.39)	1.06	(0.36)	1.10	(0.78)
Percentage of housing built before 1940	3.64	(2.88)	2.30 *	(0.78)	1.60	(0.60)	8.01 **	(5.23)
Violent crime rate per 1,000	0.14 **	(0.09)	0.45	(0.21)	0.19 ***	(0.09)	0.12 *	(0.12)
Property crime rate per 1,000	7.12 *	(5.74)	3.57 *	(1.98)	3.06 **	(1.15)	20.56 ***	(17.92)
Number of observations	247		241		287		201	
Number of clusters	186		181		164		127	
Log likelihood	-60.41		-77.49		-98.58		-35.4	
Chi-square	56.20 **		65.73 ***		81.33 ***		81.15 ***	
Pseudo-R^2	0.50		0.44		0.41		0.62	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IX-2. Standardized Cox models predicting hazard of marriage or cohabitation between the ages of 15 and 24 by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

Child characteristics

	Male		Female		Latino		African American	
Female					1.83 *	(0.54)	0.92	(0.41)
African American	0.44	(0.37)	0.37 *	(0.17)				
First born in family (omitted=no)	1.64	(0.71)	0.92	(0.36)	1.20	(0.38)	1.03	(0.48)
Had a child prior to marriage/cohabitation (omitted=no)	7.52 ***	(2.92)	3.39 ***	(1.11)	3.72 ***	(1.16)	3.45 **	(1.49)
Caregiver and household characteristics								
Number of siblings in household	1.51	(0.34)	0.91	(0.15)	1.06	(0.18)	0.82	(0.22)
Caregiver reported depressive symptomatology (omitted=no)	0.57	(0.28)	1.41	(0.48)	1.01	(0.35)	0.69	(0.43)
Caregiver age at time of child's birth	1.38	(0.40)	0.57 *	(0.14)	0.95	(0.27)	0.34 **	(0.12)
Caregiver immigrant status (omitted=no)	1.06	(0.70)	2.25	(1.06)	0.94	(0.41)	13.21 **	(12.48)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.71	(0.29)	1.47	(0.48)	0.79	(0.24)	2.11	(1.15)
Post–high school technical certificate or college degree	1.76	(1.00)	2.46 *	(0.87)	1.22	(0.47)	3.26 *	(1.76)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	2.42 *	(1.02)	1.37	(0.51)	1.46	(0.42)	1.96	(1.15)
Natural log of average caregiver earnings (in dollars)	1.81	(0.56)	1.10	(0.31)	1.05	(0.24)	1.76	(1.11)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	1.87	(1.08)	0.96	(0.46)	0.74	(0.28)	4.59	(4.02)
Household stressor scale	0.72	(0.22)	1.15	(0.16)	0.98	(0.15)	1.25	(0.46)
Household had health insurance during all of high school stage (omitted=no)	1.51	(0.60)	1.19	(0.45)	1.30	(0.41)	0.85	(0.41)
Total number of moves during high school stage	1.46	(0.37)	1.23	(0.18)	1.15	(0.16)	1.56	(0.40)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.84	(0.35)	1.17	(0.43)	1.01	(0.45)	0.56	(0.41)
Social capital index	1.01	(0.19)	1.41 *	(0.23)	1.14	(0.19)	1.51	(0.45)
Social problems index	2.05 *	(0.65)	1.19	(0.23)	1.24	(0.31)	2.05	(0.86)

Social vulnerability score	0.80	(0.37)	0.95	(0.37)	1.64	(0.59)	0.33	(0.24)
Percentage African-American residents	1.05	(0.45)	0.81	(0.20)	0.83	(0.35)	0.60	(0.20)
Percentage Latino residents	0.57	(0.29)	0.69	(0.29)	0.56	(0.19)	1.14	(0.67)
Occupational prestige score	0.34	(0.19)	0.91	(0.24)	0.94	(0.18)	0.40 *	(0.15)
Percentage foreign-born residents	2.09 *	(0.75)	1.16	(0.33)	1.75	(0.50)	0.42	(0.21)
Percentage of residents who moved in preceding 12 months	0.65	(0.18)	0.82	(0.22)	0.84	(0.16)	0.70	(0.35)
Resource factor score	1.49	(0.62)	0.84	(0.26)	0.87	(0.24)	1.90	(0.84)
Percentage of housing built before 1940	1.59 *	(0.30)	1.43 *	(0.22)	1.29	(0.19)	1.81 *	(0.46)
Violent crime rate per 1,000	0.42 *	(0.14)	0.76	(0.21)	0.53 **	(0.13)	0.63	(0.20)
Property crime rate per 1,000	3.06 ***	(1.04)	1.49 **	(0.20)	1.49	(0.38)	2.45 ***	(0.40)
Number of observations	247		241		287		201	
Number of clusters	186		181		164		127	
Number of failures	47		64		76		35	
Time at risk	4701		4485		5414		3772	
Log likelihood	-184.00		-273.70		-339.10		-123.20	
Chi-square	168.70 ***		116.50 ***		146.00 ***		336.70 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses
* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-IX-3. Standardized logit models predicting giving birth or fathering a child between the ages of 15 and 18 by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

Child characteristics

	Male OR	Male SE	Female OR	Female SE	Latino OR	Latino SE	African American OR	African American SE
Female					10.09 ***	(4.51)	2.45	(1.34)
African American	0.69	(0.63)	0.57	(0.37)				
First born in family (omitted=no)	2.21	(1.74)	0.49	(0.21)	0.95	(0.55)	0.84	(0.49)
Early onset of puberty (omitted=on time, late, or not yet)	0.92	(0.65)	0.78	(0.50)	0.47	(0.41)	3.20	(2.78)
Caregiver and household characteristics								
Number of siblings in household	1.00	(0.21)	1.08	(0.28)	0.86	(0.24)	1.21	(0.43)
Caregiver reported depressive symptomatology (omitted=no)	2.17	(1.42)	0.64	(0.33)	0.86	(0.54)	1.19	(0.98)
Caregiver age at time of child's birth	0.86	(0.23)	0.48	(0.19)	0.56	(0.21)	0.76	(0.53)
Caregiver immigrant status (omitted=no)	0.67	(0.54)	0.30	(0.19)	0.37	(0.25)	--[a]	--[a]
Caregiver history of substance abuse (omitted=no)	0.58	(0.81)	0.91	(0.63)	0.99	(0.95)	0.36	(0.24)
Caregiver was disabled during all or part of high school stage	--[b]	--[b]	3.47	(3.82)	0.14 *	(0.14)	8.16	(10.13)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.06 **	(0.05)	0.45	(0.22)	0.37 *	(0.17)	0.43	(0.27)
Post–high school technical certificate or college degree	0.24	(0.20)	0.28	(0.19)	0.86	(0.79)	0.26	(0.20)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	1.03	(0.80)	0.80	(0.35)	0.59	(0.27)	1.17	(0.70)
Natural log of average caregiver earnings (in dollars)	0.58	(0.27)	1.48	(0.66)	0.95	(0.32)	1.30	(0.71)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	0.63	(0.77)	1.01	(0.79)	0.90	(0.55)	0.51	(0.46)
Household stressor scale	2.00	(0.82)	1.08	(0.23)	1.07	(0.34)	2.09	(0.79)
Household had health insurance during all of high school stage (omitted=no)	4.12	(3.43)	0.41 *	(0.17)	0.57	(0.36)	0.97	(0.57)
Total number of moves during high school stage	1.50	(0.54)	1.06	(0.23)	0.91	(0.22)	1.38	(0.35)
Caregiver gave birth to this child during teen years	0.54	(0.42)	1.08	(0.66)	1.11	(0.73)	1.57	(1.40)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.42	(0.34)	0.85	(0.49)	0.25	(0.18)	0.63	(0.47)
Social capital index	1.50	(0.42)	1.40	(0.36)	1.25	(0.32)	1.08	(0.35)

Social problems index	2.36 *	(1.03)	1.42	(0.46)	4.18 ***	(1.47)	0.73	(0.36)
Social vulnerability score	1.52	(1.01)	0.68	(0.33)	0.71	(0.44)	1.44	(0.94)
Percentage African-American residents	1.08	(0.48)	0.44 *	(0.17)	0.50	(0.33)	0.57	(0.23)
Percentage Latino residents	0.24 **	(0.11)	0.24 **	(0.11)	0.47	(0.24)	0.15 ***	(0.07)
Occupational prestige score	0.42 *	(0.18)	0.31 **	(0.13)	0.40	(0.19)	0.38	(0.23)
Percentage of residents who moved in preceding 12 months	2.21	(1.05)	0.87	(0.26)	1.38	(0.36)	1.15	(0.58)
Lived in neighborhood with hospitals and clinics during all of high school stage (omitted=no)	5.26	(6.82)	0.29	(0.18)	0.94	(0.61)	1.24	(0.84)
Resource factor score	0.16	(0.15)	1.56	(0.70)	1.25	(0.66)	0.68	(0.33)
Percentage of housing built before 1940	1.07	(0.36)	1.57	(0.43)	1.24	(0.42)	1.72	(0.66)
Violent crime rate per 1,000	0.39	(0.24)	0.42 *	(0.18)	0.14 *	(0.11)	0.55	(0.24)
Property crime rate per 1,000	1.26	(0.57)	4.59 ***	(1.74)	4.68 ***	(2.18)	2.11	(0.81)
Percentage of teen births	1.45	(0.50)	1.18	(0.29)	1.16	(0.32)	1.80	(0.76)
Number of observations	237		234		274		197	
Number of clusters	180		178		160		126	
Log likelihood	-50.30		-92.13		-83.85		-59.41	
Chi-square	56.99 **		69.74 ***		81.07 ***		48.70 *	
Pseudo-R^2	0.31		0.30		0.35		0.31	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

[b]Caregiver was disabled during all or part of high school stage was excluded from the analysis in the male stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IX-4. Standardized Cox models predicting hazard of giving birth or fathering a child between the ages of 15 and 18 by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE

Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)

	Male		Female		Latino		African American	
Child characteristics								
Female					6.22 ***	(2.35)	1.86	(0.79)
African American	0.69	(0.63)	0.56	(0.21)				
First born in family (omitted=no)	1.44	(1.02)	0.52 *	(0.16)	1.07	(0.60)	1.00	(0.42)
Early onset of puberty (omitted=on time, late, or not yet)	1.70	(1.06)	1.15	(0.63)	0.94	(0.73)	2.66	(1.68)
Caregiver and household characteristics								
Number of siblings in household	1.00	(0.16)	1.00	(0.17)	0.97	(0.15)	1.16	(0.36)
Caregiver reported depressive symptomatology (omitted=no)	2.05	(1.27)	0.80	(0.26)	0.87	(0.40)	1.42	(0.87)
Caregiver age at time of child's birth	0.94	(0.24)	0.53 *	(0.16)	0.59	(0.17)	0.81	(0.39)
Caregiver immigrant status (omitted=no)	0.70	(0.51)	0.72	(0.38)	0.59	(0.33)	--[a]	--[a]
Caregiver history of substance abuse (omitted=no)	0.41	(0.58)	0.74	(0.42)	0.79	(0.68)	0.27	(0.19)
Caregiver was disabled during all or part of high school stage	--[b]	--[b]	2.38	(1.44)	0.44	(0.31)	4.82	(7.48)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.09 ***	(0.06)	0.72	(0.24)	0.61	(0.21)	0.48	(0.26)
Post–high school technical certificate or college degree	0.22	(0.18)	0.53	(0.25)	1.18	(0.65)	0.29	(0.23)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	0.93	(0.71)	0.76	(0.21)	0.68	(0.22)	1.09	(0.48)
Natural log of average caregiver earnings (in dollars)	0.53	(0.20)	1.19	(0.32)	0.94	(0.21)	1.35	(0.79)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	0.45	(0.48)	1.03	(0.58)	1.08	(0.54)	0.68	(0.53)
Household stressor scale	1.98	(0.70)	0.99	(0.14)	0.98	(0.24)	1.82 *	(0.54)
Household had health insurance during all of high school stage (omitted=no)	3.29	(2.53)	0.51 *	(0.14)	0.47	(0.20)	0.97	(0.51)
Total number of moves during high school stage	1.39	(0.44)	0.96	(0.15)	0.80	(0.18)	1.10	(0.21)
Caregiver gave birth to this child during teen years	0.89	(0.70)	1.05	(0.50)	0.77	(0.45)	1.61	(1.18)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.67	(0.43)	1.02	(0.41)	0.38	(0.22)	0.64	(0.29)
Social capital index	1.43	(0.37)	1.17	(0.20)	1.22	(0.23)	1.02	(0.35)

Social problems index	1.86	(0.62)	1.23	(0.28)	2.37 ***	(0.59)	0.70	(0.24)
Social vulnerability score	1.08	(0.59)	1.00	(0.29)	0.89	(0.37)	1.78	(1.24)
Percentage African-American residents	1.51	(0.75)	0.71	(0.18)	0.53	(0.26)	0.86	(0.28)
Percentage Latino residents	0.46	(0.19)	0.54	(0.20)	0.63	(0.24)	0.36 *	(0.15)
Occupational prestige score	0.49	(0.20)	0.70	(0.22)	0.58 *	(0.16)	0.70	(0.40)
Percentage of residents who moved in preceding 12 months	2.67	(1.48)	1.00	(0.21)	1.26	(0.25)	1.28	(0.71)
Lived in neighborhood with hospitals and clinics during all of high school stage (omitted=no)	4.71	(4.97)	0.58	(0.29)	0.77	(0.40)	1.47	(0.80)
Resource factor score	0.17 *	(0.14)	1.18	(0.33)	1.03	(0.36)	0.67	(0.39)
Percentage of housing built before 1940	1.12	(0.35)	1.17	(0.19)	1.31	(0.27)	1.33	(0.48)
Violent crime rate per 1,000	0.50	(0.30)	0.66	(0.18)	0.47	(0.26)	0.60	(0.21)
Property crime rate per 1,000	1.22	(0.59)	1.84 **	(0.42)	1.56	(0.51)	1.49	(0.64)
Percentage of teen births	1.09	(0.33)	1.20	(0.24)	1.14	(0.33)	1.68	(0.80)
Number of observations	237		234		274		197	
Number of clusters	180		178		160		126	
Number of failures	22		58		49		31	
Time at risk	4104		4007		4720		3391	
Log likelihood	-92.47		-270.00		-225.70		-132.90	
Chi-square	73.04 ***		106.00 ***		134.70 ***		109.90 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

[b]Caregiver was disabled during all or part of high school stage was excluded from the analysis in the male stratum because it was perfectly predictive.

* p < 0.05; ** p < 0.01; *** p < 0.001

Appendix C-IX-5. Standardized logit models predicting nonmarital births occurring between the ages of 18 and 24 by gender and ethnicity

	Male		Female		Latino		African American	
	OR	SE	OR	SE	OR	SE	OR	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					1.37	(0.61)	1.73	(0.78)
African American	1.20	(0.74)	2.09	(1.30)				
First born in family (omitted=no)	0.60	(0.32)	0.28 *	(0.15)	0.32 *	(0.16)	0.67	(0.32)
Caregiver and household characteristics								
Older sibling had a nonmarital birth (omitted=no)	1.15	(0.72)	1.54	(1.04)	0.68	(0.36)	1.34	(1.34)
Number of siblings in household	0.81	(0.23)	1.28	(0.33)	1.35	(0.35)	0.75	(0.23)
Caregiver reported depressive symptomatology (omitted=no)	1.83	(0.90)	0.27 *	(0.16)	0.22 **	(0.11)	2.33	(1.55)
Caregiver age at time of child's birth	0.55 *	(0.14)	0.47 *	(0.18)	0.56 *	(0.14)	0.50 *	(0.16)
Caregiver immigrant status (omitted=no)	0.57	(0.40)	0.21	(0.21)	0.15 *	(0.12)	—[a]	—[a]
Caregiver history of substance abuse (omitted=no)	0.88	(0.50)	0.68	(0.42)	1.19	(0.81)	0.59	(0.34)
Caregiver was disabled during all or part of high school stage (omitted=no)	0.87	(0.94)	0.39	(0.40)	0.50	(0.47)	2.96	(2.99)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.88	(0.45)	0.42	(0.22)	0.58	(0.34)	0.68	(0.37)
Post–high school technical certificate or college degree	0.86	(0.50)	0.23	(0.19)	0.66	(0.40)	0.34	(0.21)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	0.84	(0.44)	0.82	(0.40)	1.12	(0.54)	0.34	(0.20)
Natural log of average caregiver earnings (in dollars)	1.47	(0.61)	3.23 *	(1.38)	3.70 **	(1.55)	1.67	(0.73)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	2.30	(1.78)	3.01	(2.40)	12.26 **	(9.34)	1.06	(0.84)
Household stressor scale	0.90	(0.20)	0.83	(0.25)	1.04	(0.30)	0.87	(0.21)
Household had health insurance during all of high school stage (omitted=no)	1.41	(0.77)	2.87	(1.71)	2.49	(1.46)	0.96	(0.52)
Total number of moves during high school stage	0.76	(0.21)	1.04	(0.21)	1.25	(0.31)	0.94	(0.21)
Caregiver gave birth to this child outside of marriage (omitted=no)	0.73	(0.34)	2.71	(1.44)	1.20	(0.73)	1.08	(0.53)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.76	(0.48)	0.45	(0.31)	0.24	(0.18)	0.56	(0.31)
Social capital index	1.51	(0.35)	1.20	(0.36)	1.59	(0.41)	1.26	(0.43)
Social problems index	1.31	(0.38)	1.35	(0.42)	2.22 *	(0.79)	1.11	(0.34)
Social vulnerability score	0.61	(0.30)	0.48	(0.20)	1.44	(0.71)	0.52	(0.23)
Percentage African-American residents	1.05	(0.44)	1.12	(0.47)	0.19 *	(0.15)	0.78	(0.31)
Percentage Latino residents	0.64	(0.41)	1.21	(0.92)	0.35	(0.23)	0.41	(0.29)
Occupational prestige score	0.44 *	(0.17)	0.55	(0.26)	0.65	(0.22)	0.25 **	(0.13)
Percentage foreign-born residents	0.74	(0.33)	0.51	(0.27)	1.64	(0.75)	0.70	(0.35)

Percentage of residents who moved in preceding 12 months	1.50	(0.38)	1.65	(0.55)	1.17	(0.42)	1.19	(0.34)
Lived in neighborhood with hospitals and clinics during all of high school stage (omitted=no)	0.62	(0.32)	0.38	(0.26)	0.35	(0.21)	0.77	(0.44)
Resource factor score	0.62	(0.27)	1.04	(0.48)	0.68	(0.27)	0.93	(0.44)
Percentage of housing built before 1940	1.70 *	(0.43)	1.34	(0.35)	1.72	(0.64)	1.80	(0.71)
Violent crime rate per 1,000	0.65	(0.39)	0.70	(0.31)	0.82	(0.55)	0.33 *	(0.17)
Property crime rate per 1,000	1.35	(0.43)	1.34	(0.58)	1.66	(0.72)	1.99	(0.90)
Child abuse and neglect rate per 1,000	0.76	(0.31)	0.93	(0.41)	0.40 **	(0.13)	1.85	(1.24)
Number of observations	188		179		214		153	
Number of clusters	145		136		124		92	
Log likelihood	-81.65		-80.18		-84.7		-71.26	
Chi-square	52.86 *		53.86 *		60.66 **		54.98 **	
Pseudo-R^2	0.18		0.25		0.24		0.25	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

[a]Caregiver immigrant status was excluded from the analysis in the African-American stratum because it was perfectly predictive.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$

Appendix C-IX-6. Standardized Cox models predicting nonmarital births occurring between the ages of 18 and 24 by gender and ethnicity

	Male		Female		Latino		African American	
	Hazard	SE	Hazard	SE	Hazard	SE	Hazard	SE
Predictor measures (all continuous variables reflect standardized values calculated as an average of measures taken during high school stage unless otherwise noted)								
Child characteristics								
Female					1.46	(0.56)	2.13	(0.92)
African American	1.13	(0.63)	1.91	(0.88)				
First born in family (omitted=no)	0.58	(0.30)	0.37 **	(0.13)	0.34 *	(0.17)	0.63	(0.22)
Caregiver and household characteristics								
Older sibling had a nonmarital birth (omitted=no)	1.16	(0.65)	2.03	(1.05)	0.88	(0.34)	1.01	(0.74)
Number of siblings in household	0.79	(0.21)	1.27	(0.28)	1.41	(0.32)	0.76	(0.17)
Caregiver reported depressive symptomatology (omitted=no)	1.72	(0.67)	0.26 **	(0.12)	0.28 **	(0.13)	2.03	(0.90)
Caregiver age at time of child's birth	0.66	(0.16)	0.62	(0.19)	0.62 *	(0.14)	0.68	(0.16)
Caregiver immigrant status (omitted=no)	0.84	(0.59)	0.28	(0.25)	0.21 *	(0.14)	1.03E-17 ***	7.57E-18
Caregiver history of substance abuse (omitted=no)	0.87	(0.46)	1.05	(0.45)	1.20	(0.72)	0.73	(0.28)
Caregiver was disabled during all or part of high school stage (omitted=no)	0.88	(0.88)	0.44	(0.34)	0.54	(0.45)	1.32	(1.07)
Caregiver educational attainment (omitted=no degree)								
High school diploma	0.78	(0.32)	0.52	(0.19)	0.63	(0.31)	0.72	(0.25)
Post–high school technical certificate or college degree	1.13	(0.48)	0.23 *	(0.14)	0.63	(0.34)	0.42	(0.22)
Lived in household with two caregivers for 50% or more of high school stage (omitted=no)	0.75	(0.37)	1.10	(0.41)	1.11	(0.45)	0.56	(0.22)
Natural log of average caregiver earnings (in dollars)	1.44	(0.59)	2.30 **	(0.71)	2.81 **	(0.95)	1.49	(0.52)
Caregiver was available to monitor/supervise children full/part time during high school stage (omitted=not available)	2.32	(1.76)	2.07	(1.36)	6.25 *	(4.60)	1.57	(1.16)
Household stressor scale	1.14	(0.25)	1.03	(0.23)	1.15	(0.31)	0.97	(0.16)
Household had health insurance during all of high school stage (omitted=no)	1.36	(0.73)	1.91	(0.84)	2.62 *	(1.21)	0.78	(0.40)
Total number of moves during high school stage	0.84	(0.21)	1.15	(0.17)	1.25	(0.28)	0.90	(0.16)
Caregiver gave birth to this child outside of marriage (omitted=no)	0.84	(0.31)	2.75 *	(1.23)	1.36	(0.65)	1.55	(0.58)
Neighborhood characteristics								
Lived in neighborhood with negative peers for 50% or more of high school stage (omitted=no)	0.93	(0.55)	0.45	(0.23)	0.32	(0.21)	0.63	(0.25)
Social capital index	1.41	(0.31)	1.17	(0.25)	1.48	(0.31)	1.03	(0.28)
Social problems index	1.13	(0.24)	1.24	(0.30)	1.59	(0.49)	1.00	(0.26)
Social vulnerability score	0.67	(0.33)	0.74	(0.23)	1.09	(0.49)	0.60	(0.19)
Percentage African-American residents	1.40	(0.55)	0.94	(0.25)	0.39	(0.22)	0.88	(0.21)
Percentage Latino residents	1.07	(0.69)	0.96	(0.49)	0.64	(0.37)	0.55	(0.30)
Occupational prestige score	0.91	(0.27)	0.77	(0.26)	0.99	(0.30)	0.49 *	(0.17)

Percentage foreign-born residents	1.04	(0.44)	0.78	(0.31)	1.54	(0.64)	1.07	(0.37)
Percentage of residents who moved in preceding 12 months	1.16	(0.28)	1.40	(0.35)	1.02	(0.36)	1.06	(0.20)
Lived in neighborhood with hospitals and clinics during all of high school stage (omitted=no)	0.77	(0.37)	0.54	(0.21)	0.45	(0.21)	0.96	(0.42)
Resource factor score	0.68	(0.22)	1.47	(0.48)	0.80	(0.25)	1.17	(0.42)
Percentage of housing built before 1940	1.16	(0.22)	1.18	(0.25)	1.29	(0.37)	1.30	(0.37)
Violent crime rate per 1,000	0.75	(0.45)	0.89	(0.24)	0.99	(0.57)	0.52	(0.19)
Property crime rate per 1,000	1.39	(0.41)	0.91	(0.29)	1.46	(0.50)	1.78	(0.56)
Child abuse and neglect rate per 1,000	0.85	(0.28)	0.90	(0.27)	0.55	(0.18)	1.408	(0.65)
Number of observations	188		179		214		153	
Number of clusters	145		136		124		92	
Number of failures	42		51		46		47	
Time at risk	3937		3712		4508		3141	
Log likelihood	-184.90		-219.90		-203.50		-198.30	
Chi-square	63.25 **		88.71 ***		95.33 ***		5278.20 ***	

Notes:

Exponentiated coefficients; robust standard errors in parentheses

* p < 0.05; ** p < 0.01; *** p < 0.001