

Supplementary Online Content

Himmelstein G, Desmond M. Association of eviction with adverse birth outcomes among women in Georgia, 2000 to 2016. *JAMA Pediatr*. Published online March 1, 2021. doi:10.1001/jamapediatrics.2020.6550

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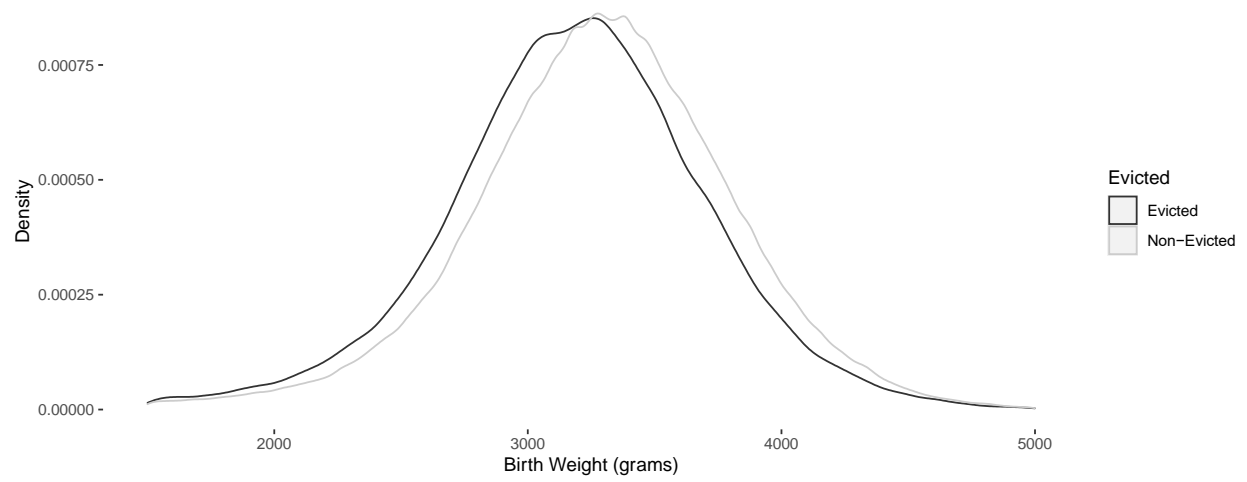
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This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure. Birth Weight Distributions of Infants Born to Georgia Mothers With and Without Eviction Actions at Any Time, 2000-2016



eTable 1. Association of Eviction Actions During Pregnancy With Birth Outcomes, Adjusted for Other Characteristics, Including Coefficients for All Covariates

	Infant Birth Weight, Grams N = 85,438 (95% CI)	Low Birth Weight, Percent of Births N = 85,438 (95% CI)	Infant Deaths per Thousand N = 85,438 (95% CI)	Gestational Age, Weeks N = 42,697 (95% CI)	Premature, Percent of Births N = 42,697 (95% CI)
Eviction Action During Pregnancy	-26.88*** (-39.53, -14.24)	0.88*** (0.23, 1.54)	1.85* (-0.19, 3.89)	-0.09*** (-0.16, -0.03)	1.14** (0.21, 2.06)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	61.61*** (50.54, 72.67)	-2.55*** (-3.12, -1.98)	-1.78* (-3.57, 0.00)	-0.11*** (-0.17, -0.04)	-0.01 (-0.94, 0.92)
Parity 3	72.90*** (60.87, 84.92)	-2.53*** (-3.15, -1.91)	-0.94 (-2.88, 0.99)	-0.16*** (-0.23, -0.09)	0.74 (-0.23, 1.71)
Parity 4	51.11*** (36.73, 65.50)	-1.60*** (-2.34, -0.86)	0.48 (-1.84, 2.79)	-0.27*** (-0.35, -0.19)	2.08*** (0.97, 3.20)
Parity 5+	48.65*** (33.64, 63.67)	-1.06*** (-1.83, -0.28)	0.31 (-2.11, 2.73)	-0.35*** (-0.42, -0.27)	3.71*** (2.59, 4.83)
Maternal Age					
< 19 years	Reference	Reference	Reference	Reference	Reference
19-34 years	1.18 (-17.01, 19.37)	0.82* (-0.12, 1.75)	1.66 (-1.27, 4.59)	-0.11* (-0.24, 0.02)	1.77* (-0.03, 3.57)
35+ years	-24.80** (-47.85, -1.76)	3.96*** (2.78, 5.15)	1.54 (-2.18, 5.25)	-0.35*** (-0.49, -0.20)	5.57*** (3.50, 7.64)
Maternal Race					
White	Reference	Reference	Reference	Reference	Reference
Black or African-American	-185.48*** (-196.83, -174.12)	4.39*** (3.81, 4.98)	3.04*** (1.21, 4.87)	-0.30*** (-0.37, -0.24)	3.16*** (2.25, 4.08)
Maternal Education					
< 9th grade	Reference	Reference	Reference	Reference	Reference
9th through 11th Grade	-43.53*** (-71.21, -15.85)	1.12 (-0.31, 2.55)	-1.17 (-5.64, 3.29)	-0.24** (-0.42, -0.05)	3.40** (0.78, 6.02)
High School Diploma/GED	4.57 (-22.77, 31.91)	-0.15 (-1.56, 1.25)	-2.15 (-6.56, 2.26)	-0.20** (-0.38, -0.02)	2.32* (-0.25, 4.88)

Some College or Higher	35.20** (7.47, 62.93)	-1.10 (-2.52, 0.33)	-4.30* (-8.77, 0.17)	-0.16* (-0.34, 0.02)	2.00 (-0.58, 4.59)
Marital status					
Unmarried	Reference	Reference	Reference	Reference	Reference
Married	55.32*** (45.43, 65.22)	-1.28*** (-1.79, -0.77)	-0.78 (-2.37, 0.81)	0.02 (-0.04, 0.08)	-0.74* (-1.53, 0.05)

*p<0.1; **p<0.05; ***p<0.01

Multivariate ordinary least squares models with zip code and year fixed effects

GED= General Education Diploma

eTable 2. Association of Eviction Actions During Pregnancy With Birth Outcomes According to Trimester of Pregnancy, Adjusted for Other Characteristics, Including Coefficients for All Covariates

	Infant Birth Weight, Grams N = 85,438 (95% CI)	Low Birth Weight, Percent of Births N = 85,438 (95% CI)	Infant Deaths per Thousand N = 85,438 (95% CI)	Gestational Age, Weeks N = 42,697 (95% CI)	Premature, Percent of Births N = 42,697 (95% CI)
Trimester During Which Eviction Occurred					
1 st Trimester of Pregnancy	4.34 (-21.38, 30.07)	-0.81 (-2.14, 0.51)	2.93 (-1.22, 7.07)	0.05 (-0.08, 0.18)	-0.06 (-1.93, 1.82)
2 nd Trimester of Pregnancy	-34.74*** (-57.51, -11.97)	1.42** (0.25, 2.59)	2.02 (-1.65, 5.69)	-0.12** (-0.24, -0.01)	1.41* (-0.26, 3.09)
3 rd Trimester of Pregnancy	-35.80*** (-52.91, -18.69)	1.31*** (0.43, 2.19)	1.30 (-1.46, 4.06)	-0.14*** (-0.22, -0.05)	1.49** (0.24, 2.73)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	61.43*** (50.36, 72.49)	-2.54*** (-3.11, -1.97)	-1.79** (-3.58, -0.01)	-0.11*** (-0.17, -0.04)	0.00 (-0.93, 0.93)
Parity 3	72.61*** (60.59, 84.64)	-2.51*** (-3.13, -1.89)	-0.96 (-2.90, 0.98)	-0.16*** (-0.23, -0.09)	0.76 (-0.21, 1.73)
Parity 4	50.84*** (36.45, 65.22)	-1.58*** (-2.32, -0.84)	0.46 (-1.85, 2.78)	-0.27*** (-0.35, -0.20)	2.10*** (0.98, 3.21)
Parity 5+	48.52*** (33.50, 63.54)	-1.05*** (-1.82, -0.28)	0.31 (-2.12, 2.73)	-0.35*** (-0.43, -0.27)	3.72*** (2.59, 4.84)
Maternal Age					
Age < 19	Reference	Reference	Reference	Reference	Reference
Age 19-34	1.20 (-16.99, 19.38)	0.81* (-0.12, 1.75)	1.66 (-1.27, 4.60)	-0.11* (-0.24, 0.02)	1.77* (-0.03, 3.57)
Age 35+	-24.73** (-47.77, -1.68)	3.96*** (2.77, 5.15)	1.54 (-2.18, 5.25)	-0.35*** (-0.49, -0.20)	5.57*** (3.49, 7.64)
Maternal Race					
White	Reference	Reference	Reference	Reference	Reference

Black or African-American	-185.34*** (-196.70, -173.99)	4.39*** (3.80, 4.97)	3.05*** (1.21, 4.88)	-0.30*** (-0.37, -0.24)	3.16*** (2.24, 4.07)
Maternal Education					
< 9th Grade	Reference	Reference	Reference	Reference	Reference
9th through 11th Grade	-43.66*** (-71.34, -15.98)	1.13 (-0.30, 2.55)	-1.18 (-5.64, 3.28)	-0.24** (-0.42, -0.05)	3.41** (0.79, 6.03)
High School Diploma or GED	4.50 (-22.84, 31.84)	-0.15 (-1.56, 1.26)	-2.15 (-6.56, 2.25)	-0.20** (-0.38, -0.02)	2.32* (-0.25, 4.89)
Some College or Higher	35.11** (7.38, 62.84)	-1.09 (-2.52, 0.34)	-4.31* (-8.78, 0.16)	-0.16* (-0.34, 0.02)	2.01 (-0.58, 4.59)
Marital Status					
Unmarried	Reference	Reference	Reference	Reference	Reference
Married	55.38*** (45.49, 65.27)	-1.28*** (-1.79, -0.77)	-0.000.78 (-2.37, 0.82)	0.02 (-0.04, 0.08)	-0.74* (-1.53, 0.05)

*p<0.1; **p<0.05; ***p<0.01

Multivariate ordinary least squares models with zip code and year fixed effects

GED= General Education Diploma

eTable 3. Characteristics and Birth Outcomes of Georgia Mothers With Eviction Actions During Pregnancy by Trimester

	Eviction Action During First Trimester of Pregnancy	Eviction Action During Second Trimester of Pregnancy	Eviction Action During Third Trimester of Pregnancy
	N=2,199	N=2,802	N=5,134
Mean Maternal Age (SD)	27.18 (5.29)	27.41 (5.41)	27.31 (5.36)
Race (%)			
White	445 (20.2)	535 (19.1)	863 (16.8)
American Indian/Alaska Native	2 (0.1)	6 (0.2)	9 (0.2)
Asian	10 (0.5)	15 (0.5)	18 (0.4)
Black or African-American	1669 (75.9)	2152 (76.8)	4075 (79.4)
Multiracial	48 (2.2)	69 (2.5)	125 (2.4)
Native Hawaiian/Pacific Islander	0 (0.0)	1 (0.0)	2 (0.0)
Unknown	25 (1.1)	24 (0.9)	42 (0.8)
Education (%)			
Less than 9th Grade	27 (1.2)	38 (1.4)	77 (1.5)
9th through 11th Grade	402 (18.3)	460 (16.4)	803 (15.6)
High School Diploma or GED	875 (39.8)	1138 (40.6)	2064 (40.2)
Some College or Higher	809 (36.8)	1081 (38.6)	2049 (39.9)
Missing	86 (3.9)	85 (3.0)	141 (2.7)
Marital Status (%)			
Unmarried	1693 (77.0)	2127 (75.9)	3900 (76.0)
Married	501 (22.8)	669 (23.9)	1217 (23.7)
Missing	5 (0.2)	6 (0.2)	17 (0.3)

eTable 4. Association of Eviction Actions Not Resulting in Eviction Judgment During Pregnancy With Birth Outcomes, Adjusted for Other Characteristics

	Infant Birth Weight, Grams N = 57,256 (95% CI)	Low Birth Weight, Percent of Births N = 57,256 (95% CI)	Infant Deaths per Thousand N = 57,256 (95% CI)	Gestational Age, Weeks N= 28,864 (95% CI)	Premature, Percent of Births N = 28,864 (95% CI)
Eviction Action During Pregnancy	-29.25*** (-43.69, -14.81)	1.10*** (0.35, 1.85)	1.72 (-0.62, 4.06)	-0.11*** (-0.19, -0.03)	1.47*** (0.40, 2.54)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	60.29*** (46.55, 74.03)	-2.76*** (-3.48, -2.05)	-1.38 (-3.61, 0.85)	-0.07* (-0.16, 0.01)	-0.46 (-1.60, 0.69)
Parity 3	72.91*** (58.05, 87.77)	-2.64*** (-3.41, -1.87)	-1.25 (-3.66, 1.16)	-0.13*** (-0.22, -0.05)	0.18 (-1.02, 1.37)
Parity 4	42.98*** (25.32, 60.64)	-1.52*** (-2.44, -0.60)	1.62 (-1.24, 4.48)	-0.28*** (-0.38, -0.19)	2.13*** (0.76, 3.50)
Parity 5+	42.22*** (23.97, 60.48)	-0.99** (-1.94, -0.04)	0.25 (-2.71, 3.21)	-0.32*** (-0.42, -0.23)	3.33*** (1.96, 4.71)
Maternal Age					
Age <19	Reference	Reference	Reference	Reference	Reference
Age 19-34	2.23 (-20.32, 24.78)	0.50 (-0.67, 1.67)	2.26 (-1.39, 5.92)	-0.12 (-0.28, 0.04)	1.72 (-0.56, 4.00)
Age 35+	-25.55* (-54.22, 3.12)	3.73*** (2.24, 5.22)	2.54 (-2.11, 7.18)	-0.36*** (-0.54, -0.17)	5.39*** (2.79, 8.00)
Maternal race					
White	Reference	Reference	Reference	Reference	Reference
Black or African-American	-180.74*** (-195.45, -166.03)	4.41*** (3.65, 5.17)	4.04*** (1.65, 6.42)	-0.25*** (-0.34, -0.17)	2.45*** (1.27, 3.62)
Maternal education					
< 9th Grade	Reference	Reference	Reference	Reference	Reference
9th through 11th Grade	-36.88** (-71.87, -1.88)	0.62 (-1.20, 2.44)	-0.93 (-6.60, 4.74)	-0.16 (-0.40, 0.07)	1.99 (-1.33, 5.31)
High School Diploma or GED	8.43 (-26.16, 43.02)	-0.70 (-2.50, 1.10)	-2.40 (-8.01, 3.21)	-0.10 (-0.33, 0.13)	0.73 (-2.52, 3.99)
Some College or Higher	39.54** (4.42, 74.65)	-1.81* (-3.63, 0.02)	-4.51 (-10.20, 1.18)	-0.08 (-0.31, 0.15)	0.79 (-2.49, 4.06)

Marital Status					
Unmarried	Reference	Reference	Reference	Reference	Reference
Married	52.91*** (40.46, 65.36)	-1.14*** (-1.78, -0.49)	-0.67 (-2.69, 1.35)	0.01 (-0.06, 0.08)	-0.61 (-1.60, 0.38)

*p<0.1; **p<0.05; ***p<0.01

Note: Ordinary least squares models with zip code and year fixed effects

GED= General Education Diploma

eTable 5. Association of Eviction Actions During Pregnancy With Birth Outcomes, Including Mother Fixed Effects, Adjusted for Other Characteristics

	Infant Birth Weight, Grams N = 85,438 (95% CI)	Low Birth Weight, Percent of Births N = 85,438 (95% CI)	Infant Deaths per Thousand N = 85,438 (95% CI)	Gestational Age, Weeks N= 42,697 (95% CI)	Premature, Percent of Births N = 42,697 (95% CI)
Eviction Action During Pregnancy	-18.87** (-33.59, -4.15)	0.56 (-0.32, 1.43)	1.10 (-2.11, 4.31)	-0.04 (-0.14, 0.05)	0.61 (-0.82, 2.04)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	59.15*** (46.70, 71.60)	-2.65*** (-3.39, -1.90)	-1.91 (-4.63, 0.80)	-0.15*** (-0.24, -0.06)	0.74 (-0.64, 2.12)
Parity 3	62.49*** (45.50, 79.48)	-2.55*** (-3.57, -1.54)	-0.09 (-3.79, 3.61)	-0.18*** (-0.31, -0.06)	1.28 (-0.58, 3.13)
Parity 4	47.69*** (25.71, 69.66)	-1.91*** (-3.23, -0.60)	-0.66 (-5.45, 4.13)	-0.32*** (-0.48, -0.16)	3.98*** (1.61, 6.34)
Parity 5+	36.59*** (9.22, 63.95)	-1.70** (-3.33, -0.06)	0.97 (-5.00, 6.93)	-0.45*** (-0.64, -0.25)	5.40*** (2.47, 8.33)
Maternal Age					
Age < 19	Reference	Reference	Reference	Reference	Reference
Age 19-34	-21.11** (-40.52, -1.70)	0.75 (-0.41, 1.91)	1.19 (-3.04, 5.43)	-0.08 (-0.25, 0.08)	2.50** (0.07, 4.94)
Age 35+	-46.54*** (-79.29, -13.79)	2.30** (0.34, 4.25)	-3.14 (-10.28, 4.00)	-0.07 (-0.32, 0.19)	4.00** (0.20, 7.80)

p<0.1; **p<0.05; ***p<0.01

Note: Ordinary least squares models with mother, zip code and year fixed effects

eTable 6. Association of Eviction Actions During Pregnancy With Birth Outcomes Among Mothers With Only 1 Eviction Action, Adjusted for Other Characteristics

	Infant Birth Weight, Grams N = 40,858 (95% CI)	Low Birth Weight, Percent of Births N = 40,858 (95% CI)	Infant Deaths per Thousand N = 40,858 (95% CI)	Gestational Age, Weeks N = 20,192 (95% CI)	Premature, Percent of Births N = 20,192 (95% CI)
Eviction Action During Pregnancy	-44.95*** (-68.23, -21.68)	1.55** (0.36, 2.73)	5.56*** (1.92, 9.20)	-0.16*** (-0.27, -0.04)	1.78** (0.11, 3.44)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	58.15*** (42.55, 73.76)	-2.47*** (-3.27, -1.68)	-0.81 (-3.25, 1.63)	-0.12** (-0.21, -0.03)	-0.12 (-1.45, 1.20)
Parity 3	64.43*** (47.28, 81.59)	-2.13*** (-3.00, -1.25)	-0.12 (-2.81, 2.56)	-0.21*** (-0.31, -0.12)	1.12 (-0.27, 2.52)
Parity 4	46.70*** (25.83, 67.56)	-2.05*** (-3.11, -0.99)	0.44 (-2.83, 3.71)	-0.26*** (-0.37, -0.15)	1.63** (0.02, 3.24)
Parity 5+	45.97*** (23.44, 68.51)	-1.25** (-2.40, -0.10)	1.31 (-2.22, 4.83)	-0.36*** (-0.48, -0.25)	4.13*** (2.45, 5.81)
Maternal Age					
Age <19	Reference	Reference	Reference	Reference	Reference
Age 19-34	-0.60 (-26.35, 25.15)	1.30* (-0.02, 2.61)	1.26 (-2.77, 5.29)	-0.07 (-0.24, 0.11)	1.96 (-0.55, 4.47)
Age 35+	-13.83 (-46.70, 19.03)	3.69*** (2.01, 5.36)	0.30 (-4.84, 5.45)	-0.19* (-0.40, 0.01)	4.08*** (1.14, 7.02)
Maternal Race					
White	Reference	Reference	Reference	Reference	Reference
Black or African-American	-182.60*** (-198.48, -166.72)	4.49*** (3.68, 5.30)	2.41* (-0.07, 4.90)	-0.27*** (-0.36, -0.18)	2.40*** (1.12, 3.67)
Maternal Education					
<9th Grade	Reference	Reference	Reference	Reference	Reference

9th through 11th Grade	-61.22*** (-99.57, -22.88)	1.69* (-0.26, 3.65)	-0.77 (-6.77, 5.23)	-0.29** (-0.55, -0.04)	3.84** (0.17, 7.51)
High School Diploma or GED	-8.32 (-46.21, 29.56)	0.04 (-1.89, 1.97)	-2.63 (-8.56, 3.30)	-0.24* (-0.49, 0.01)	2.79 (-0.81, 6.40)
Some College or Higher	25.32 (-13.23, 63.87)	-0.98 (-2.94, 0.99)	-3.83 (-9.87, 2.20)	-0.17 (-0.42, 0.08)	2.23 (-1.41, 5.87)
Marital Status					
Unmarried	Reference	Reference	Reference	Reference	Reference
Married	56.05*** (42.15, 69.94)	-1.19*** (-1.89, -0.48)	-0.34 (-2.52, 1.83)	-0.02 (-0.10, 0.06)	-0.36 (-1.48, 0.76)

p<0.1; **p<0.05; ***p<0.01

Notes: Ordinary least squares models with zip code and year fixed effects

GED= General Education Diploma

eTable 7. Association of Eviction Actions During Pregnancy With Birth Outcomes in Atlanta, Georgia, Adjusted for Other Characteristics

	Infant Birth Weight, Grams N = 14,332 (95% CI)	Low Birth Weight, Percent of Births N = 14,332 (95% CI)	Infant Deaths per Thousand N = 14,332 (95% CI)	Gestational Age, Weeks N = 6,855 (95% CI)	Premature, Percent of Births N = 6,855 (95% CI)
Eviction Action During Pregnancy	-38.97*** (-68.44, -9.49)	2.46*** (0.89, 4.03)	0.37 (-4.32, 5.05)	-0.18** (-0.35, -0.02)	1.61 (-0.70, 3.92)
Parity					
Parity 1	Reference	Reference	Reference	Reference	Reference
Parity 2	77.29*** (49.21, 105.37)	-3.85*** (-5.34, -2.35)	-5.91*** (-10.37, -1.45)	-0.00 (-0.17, 0.17)	-0.89 (-3.32, 1.55)
Parity 3	108.02*** (77.24, 138.81)	-3.58*** (-5.22, -1.93)	-3.71 (-8.60, 1.18)	0.01 (-0.17, 0.19)	-0.71 (-3.28, 1.86)
Parity 4	53.47*** (17.86, 89.08)	-1.57 (-3.47, 0.33)	-1.49 (-7.15, 4.17)	-0.06 (-0.27, 0.15)	0.47 (-2.43, 3.37)
Parity 5+	40.14** (5.43, 74.85)	-0.57 (-2.43, 1.28)	-1.53 (-7.05, 3.98)	-0.26*** (-0.46, -0.07)	5.15*** (2.41, 7.89)
Maternal Age					
Age < 19	Reference	Reference	Reference	Reference	Reference
Age 19-34	9.03 (-34.12, 52.19)	0.50 (-1.81, 2.80)	1.31 (-5.55, 8.16)	0.03 (-0.30, 0.36)	0.44 (-4.18, 5.07)
Age 35+	13.20 (-43.87, 70.28)	2.91* (-0.14, 5.95)	-1.77 (-10.84, 7.30)	-0.05 (-0.43, 0.33)	2.04 (-3.33, 7.41)
Maternal Race					
White	Reference	Reference	Reference	Reference	Reference
Black or African-American	-187.36*** (-230.53, -144.18)	4.73*** (2.43, 7.04)	0.89 (-5.97, 7.75)	-0.15 (-0.43, 0.12)	2.42 (-1.45, 6.29)
Maternal Education					
<9th Grade	Reference	Reference	Reference	Reference	Reference
9th through 11th Grade	-45.32 (-115.60, 24.95)	2.95 (-0.80, 6.70)	-3.32 (-14.49, 7.85)	-0.48 (-1.05, 0.09)	5.85 (-2.20, 13.91)
High School Diploma or GED	-2.88 (-72.96, 67.19)	0.76 (-2.98, 4.50)	-3.35	-0.32 (-0.88, 0.25)	2.37 (-5.61, 10.35)

			(-14.49, 7.78)		
Some College or Higher	31.71 (-39.58, 103.00)	0.26 (-3.55, 4.06)	-2.72 (-14.05, 8.60)	-0.31 (-0.88, 0.27)	2.28 (-5.75, 10.32)
Marital Status					
Unmarried	Reference	Reference	Reference	Reference	Reference
Married	39.28** (9.50, 69.06)	-0.77 (-2.36, 0.82)	-4.82** (-9.55, -0.09)	-0.06 (-0.24, 0.12)	-0.32 (-2.80, 2.16)

p<0.1; **p<0.05; ***p<0.01

Ordinary least squares models with zip code and year fixed effects

GED= General Education Diploma