

Supplemental Table S1: Lifetime Odds of Contracting an STI Associated with Parental Imprisonment With Full Controls

	Father Imprisoned	Mother Imprisoned	Joint Mother/Father Imprisonment
Parent Imprisonment			
Single Parent Imprisonment			
<i>Father imprisoned</i>	1.24 [1.04,1.48]		
<i>Mother Imprisoned</i>		1.13 [0.94, 1.36]	
Joint Parental Imprisonment			
<i>Father only Imprisoned</i>			1.22 [1.09, 1.37]
<i>Mather only imprisoned</i>			1.20 [0.90,1.61]
<i>Mother &amp; Father Both Imprisoned</i>			1.21 [0.97,1.52]
<b>Demographic Measures</b>			
<i>Age at interview</i>	0.96 [0.91,1.00]	0.96 [0.94,0.98]	0.96 [0.94,0.99]
<i>Female</i>	3.48 [3.01, 4.02]	3.30 [3.00,3.61]	3.29 [3.00, 3.61]
Racial Phenotype (Wave 1)			
<i>White [reference]</i>			
<i>Black</i>	4.26 [3.67,4.95]	4.00 [3.59,4.46]	4.00 [3.58,4.45]
<i>Hispanic</i>	1.45 [1.12,1.86]	1.30 [1.14,1.49]	1.30 [1.14,1.48]
<i>Asian</i>	1.10 [0.81,1.47]	1.01 [0.83,1.24]	1.03 [0.84,1.25]
<i>Native American</i>	2.09 [1.41,3.12]	1.78 [1.33,2.39]	1.76 [1.31,2.36]
<i>Other/Multiple Race</i>	1.51 [0.93,2.44]	1.38 [0.92,2.08]	1.39 [0.93,2.07]
<b>Family &amp; Neighborhood Measures</b>			
Family Structure (Wave 1)			
<i>Two Biological Parents [reference]</i>			
<i>Single Mother</i>	1.00 [0.84,1.19]	1.09 [0.98,1.21]	1.04 [0.94,1.16]
<i>Single Father</i>	1.11 [0.81,1.48]	1.23 [0.97,1.56]	1.20 [0.95,1.52]
<i>Two Parent, One Biological</i>	1.20 [0.95,1.52]	1.26 [1.11,1.42]	1.19 [1.05,1.35]
<i>Other Family Structure</i>	1.44 [1.11,1.85]	1.46 [1.23,1.73]	1.40 [1.17,1.66]

<i>Completed Parental Education</i>			
<i>Bachelor's Degree</i>	1.03 [0.82,1.30]	0.96 [0.83,1.10]	0.97 [0.85,1.11]
<i>High School</i>	1.06 [0.87,1.30]	0.94 [0.84,1.06]	0.94 [0.84,1.06]
<i>Less Than High School [reference]</i>			
Percentage of families in respondent's census tract below poverty level	0.98 [0.54,1.80]	1.11 [0.75,1.63]	1.10 [0.75,1.63]
<b>Individual Resiliency &amp; Vulnerability Measures</b>			
<i>School Attachment (Wave 1)</i>	0.96 [0.90,1.02]	0.94 [0.90,0.99]	0.95 [0.90,0.99]
Measured BMI (Wave 2)	0.97 [0.96,0.98]	0.97 [0.96,0.98]	0.97 [0.96,0.98]
History of physical child abuse	1.30 [1.07,1.60]	1.39 [1.21,1.60]	1.36 [1.18,1.57]
Parent's report, child temperament issues (Wave 1)	1.16 [1.03,1.30]	1.13 [1.03,1.24]	1.13 [1.03,1.24]
Delinquent Activity Scale (Wave 1)	1.03 [1.01,1.04]	1.02 [1.00,1.04]	1.02 [1.01,1.03]
Frequency of marijuana usage prior 30 days (wave 1)	1.17 [1.02,1.16]	1.14 [1.07,1.22]	1.14 [1.07,1.21]
Reported Binge Drinking, Prior 12 months (Wave 1)	1.09 [1.02,1.16]	1.08 [1.04,1.13]	1.09 [1.04,1.13]
<b>Sexual Risk Measures</b>			
Parental Discussion of STI risk with Respondent	1.02 [0.93,1.11]	1.06 [1.00,1.11]	1.05 [1.00,1.10]
Number of Sex Partners Prior (age<18)	1.03 [1.01,1.04]	1.03 [1.02,1.04]	1.03 [1.01,1.04]

Notes: Each model represents full results from Model 5 in Table 2, by measure of parental imprisonment.

Supplemental Table S2. Weighted odds ratios and 95% confidence intervals for ever being infected with an STI infection among adults ages 26-32 reporting parental imprisonment in childhood (National Longitudinal Study of Adolescent to Adult Health, 1994-2008).

	Model 1	Model 2	Model 3	Model 4	Model 5
Biological Father Imprisonment	1.47 [1.24, 1.74]	1.34 [1.13, 1.59]	1.34 [1.12, 1.60]	1.38 [1.16, 1.65]	1.24 [1.04, 1.48]
Biological Mother Imprisonment	1.40 [1.04, 1.89]	1.17 [0.86, 1.59]	1.20 [0.89, 1.62]	1.28 [0.94, 1.74]	1.03 [0.76, 1.41]
Biological Father only Imprisonment	1.46 [1.22, 1.75]	1.35 [1.13, 1.61]	1.34 [1.11, 1.63]	1.39 [1.16, 1.66]	1.25 [1.04, 1.51]
Biological Mother only Imprisonment	1.40 [0.94, 2.10]	1.18 [0.78, 1.76]	1.17 [0.78, 1.77]	1.28 [0.83, 1.98]	1.01 [0.66, 1.54]
Biological Mother & Father Imprisonment	1.59 [1.13, 2.23]	1.36 [0.96, 1.93]	1.38 [0.98, 1.94]	1.43 [1.00, 2.05]	1.18 [0.83, 1.69]

Notes: Results are presented for parental imprisonment (age<18) for (1) any reported biological father imprisonment, (2) any report of biological mother imprisonment and 3) combined reports of biological father and mother imprisonment. Model 1= Parental Imprisonment + respondent age + respondent ethnicity + respondent gender. Model 2= Model 1 + Wave 1 Family Structure + parent educational attainment + census tract family poverty rate. Model 3= Model 1+ respondent BMI + adolescent school attachment + childhood physical abuse + difficult child temperament + adolescent marijuana use + adolescent binge drinking + serious adolescent delinquency. Model 4=Model 1+ parental discussion of STI risk + number of sex partners prior to age 18. Model 5=all variables used in prior models.

Supplemental Table S3: Longitudinal Odds of STI infection in the prior 12 months associated with Parental Imprisonment, full model results

	Father Imprisoned	Mother Imprisoned	Joint Mother/Father Imprisonment
Parent Imprisonment			
Single Parent Imprisonment			
<i>Father imprisoned</i>	1.12 [0.96,1.30]		
<i>Mother Imprisoned</i>		0.92 [0.71, 1.21]	
Joint Parental Imprisonment			
<i>Father only Imprisoned</i>			1.18 [1.01, 1.38]
<i>Mather only imprisoned</i>			1.17 [0.77,1.77]
<i>Mother &amp; Father Both Imprisoned</i>			0.88 [0.62,1.24]
<b>Demographic Measures</b>			
<i>Age</i>	1.48 [1.18,1.86]	1.49 [1.18,1.87]	1.49 [1.18,1.87]
<i>Age-Squared</i>	0.99 [0.99,0.99]	0.99 [0.99,0.99]	0.99 [0.99,0.99]
<i>Female</i>	3.33 [2.91, 3.81]	3.34 [2.93, 3.82]	3.33 [2.91, 3.81]
Racial Phenotype (Wave 1)			
<i>White [reference]</i>			
<i>Black</i>	3.16 [2.71,3.68]	3.17 [2.71,3.68]	3.16 [2.71,3.68]
<i>Hispanic</i>	1.21 [1.00,1.47]	1.21 [1.00,1.47]	1.21 [1.00,1.47]
<i>Asian</i>	0.93 [0.70,1.24]	0.93 [0.70,1.24]	0.94 [0.71,1.25]
<i>Native American</i>	1.69 [1.12,2.55]	1.71 [1.14,2.58]	1.70 [1.13,2.55]
<i>Other/Multiple Race</i>	1.53 [0.88,2.69]	1.53 [0.88,2.69]	1.54 [0.88,2.71]
<b>Family &amp; Neighborhood Measures</b>			
Family Structure (Wave 1)			
<i>Two Biological Parents [reference]</i>			
<i>Single Mother</i>	1.05 [0.91,1.23]	1.09 [0.94,1.26]	1.05 [0.90,1.22]
<i>Single Father</i>	0.85 [0.60,1.21]	0.87 [0.61,1.24]	0.84 [0.59,1.20]
<i>Two Parent, One Biological</i>	1.10 [0.92,1.31]	1.15 [0.97,1.36]	1.10 [0.93,1.32]

<i>Other Family Structure</i>	1.19 [0.93,1.53]	1.25 [0.97,1.59]	1.20 [0.93,1.54]
<i>Completed Parental Education</i>			
<i>Bachelor's Degree</i>	1.05 [0.87,1.29]	1.05 [0.86,1.28]	1.06 [0.87,1.30]
<i>High School</i>	0.97 [0.82,1.15]	0.97 [0.82,1.14]	0.97 [0.82,1.15]
<i>Less Than High School [reference]</i>			
Percentage of families in respondent's census tract below poverty level	2.02 [1.19,3.34]	2.03 [1.20,3.44]	2.01 [1.19,3.40]
<b>Individual Resiliency &amp; Vulnerability Measures</b>			
<i>School Attachment (Wave 1)</i>	0.95 [0.89,1.01]	0.95 [0.89,1.01]	0.95 [0.89,1.01]
Measured BMI (Wave 2)	0.97 [0.96,0.98]	0.97 [0.96,0.98]	0.97 [0.96,0.98]
History of physical child abuse	1.15 [0.94,1.41]	1.17 [0.96,1.43]	1.15 [0.94,1.41]
Parent's report, child temperament issues (Wave 1)	1.18 [1.03,1.35]	1.18 [1.03,1.35]	1.17 [1.02,1.34]
Delinquent Activity Scale (Wave 1)	1.00 [0.99,1.03]	1.01 [0.99,1.03]	1.01 [0.99,1.03]
Frequency of marijuana usage prior 30 days (wave 1)	1.14 [1.05,1.24]	1.14 [1.05,1.24]	1.14 [1.05,1.24]
Reported Binge Drinking, Prior 12 months (Wave 1)	1.15 [1.10,1.20]	1.15 [1.10,1.20]	1.15 [1.10,1.20]
<b>Sexual Risk Measures</b>			
Parental Discussion of STI risk with Respondent	0.98 [0.92,1.05]	0.98 [0.92,1.05]	0.98 [0.92,1.05]
Number of Sex Partners Prior (age<18)	1.02 [1.01,1.03]	1.02 [1.01,1.03]	1.02 [1.01,1.03]

Notes: Each model represents full results from Model 5 in Table 4, by measure of parental imprisonment.

Supplemental Table S4. Odds ratios and 95% confidence intervals for ever being infected with gonorrhoea or chlamydia among adults ages 26-32 reporting parental imprisonment in childhood (National Longitudinal Study of Adolescent to Adult Health, 1994-2008).

	Model 1	Model 2	Model 3	Model 4	Model 5
Biological Father Imprisonment	1.58 [1.40, 1.77]	1.36 [1.21, 1.54]	1.45 [1.29, 1.63]	1.48 [1.32, 1.67]	1.28 [1.13, 1.44]
Biological Mother Imprisonment	1.58 [1.29, 1.91]	1.28 [1.04, 1.56]	1.41 [1.16, 1.73]	1.49 [1.23, 1.82]	1.20 [0.97, 1.48]
Biological Father only Imprisonment	1.58 [1.41, 1.78]	1.38 [1.22, 1.58]	1.48 [1.31, 1.68]	1.49 [1.32, 1.58]	1.29 [1.14, 1.48]
Biological Mother only Imprisonment	1.78 [1.30, 2.45]	1.45 [1.05, 2.00]	1.60 [1.16, 2.21]	1.67 [1.21, 2.30]	1.34 [0.97, 1.86]
Biological Mother & Father Imprisonment	1.73 [1.36, 2.20]	1.41 [1.10, 1.81]	1.55 [1.21, 1.98]	1.62 [1.27, 2.07]	1.29 [1.00, 1.67]

Notes: Results are presented for parental imprisonment (age<18) for (1) any reported biological father imprisonment, (2) any report of biological mother imprisonment and 3) combined reports of biological father and mother imprisonment. Model 1= Parental Imprisonment + respondent age + respondent ethnicity + respondent gender. Model 2= Model 1 + Wave 1 Family Structure + parent educational attainment + census tract family poverty rate. Model 3= Model 1 +respondent BMI + adolescent school attachment + childhood physical abuse + difficult child temperament + adolescent marijuana use + adolescent binge drinking + serious adolescent delinquency. Model 4=Model 1+ parental discussion of STI risk + number of sex partners prior to age 18. Model 5=all variables used in prior models.

Supplemental Table S5. Complete case analysis for odds ratios and 95% confidence intervals for ever being infected with an STI infection among adults ages 26-32 reporting parental imprisonment in childhood (National Longitudinal Study of Adolescent to Adult Health, 1994-2008).

	Model 1	Model 2	Model 3	Model 4	Model 5
Biological Father Imprisonment	1.48 [1.32, 1.65]	1.34 [1.19, 1.51]	1.36 [1.17, 1.57]	1.35 [1.19, 1.53]	1.24 [1.06, 1.44]
Biological Mother Imprisonment	1.48 [1.21, 1.82]	1.19 [0.96, 1.48]	1.14 [0.86, 1.51]	1.29 [1.03, 1.63]	0.93 [0.69, 1.25]
Biological Father only Imprisonment	1.49 [1.32, 1.67]	1.37 [1.21, 1.55]	1.40 [1.21, 1.63]	1.37 [1.20, 1.56]	1.29 [1.10, 1.51]
Biological Mother only Imprisonment	1.64 [1.27, 2.12]	1.33 [1.01, 1.74]	1.44 [1.02, 2.01]	1.48 [1.12, 1.95]	1.16 [0.81, 1.69]
Biological Mother & Father Imprisonment	1.55 [1.11, 2.15]	1.21 [0.86, 1.72]	0.95 [0.60, 1.50]	1.26 [0.86, 1.84]	0.76 [0.47, 1.25]

Notes: Results are presented for parental imprisonment (age<18) for (1) any reported biological father imprisonment, (2) any report of biological mother imprisonment and (3) combined reports of biological father and mother imprisonment. Model 1= Parental Imprisonment + respondent age + respondent ethnicity + respondent gender. Model 2= Model 1 + Wave 1 Family Structure + parent educational attainment + census tract family poverty rate. Model 3= Model 1 + respondent BMI + adolescent school attachment + childhood physical abuse + difficult child temperament + adolescent marijuana use + adolescent binge drinking + serious adolescent delinquency. Model 4=Model 1+ parental discussion of STI risk + number of sex partners prior to age 18. Model 5=all variables used in prior models.

Supplemental Table S6. Complete case analysis for odds ratios and 95% confidence intervals for longitudinal risk of STI infection in the 12 months prior to interview, ages 18-32 (National Longitudinal Study of Adolescent to Adult Health, 1994-2008).

	Model 1	Model 2	Model 3	Model 4	Model 5
Biological Father Imprisonment	1.30 [1.10, 1.53]	1.22 [1.03, 1.45]	1.16 [0.94, 1.42]	1.10 [1.00, 1.43]	1.07 [0.86, 1.33]
Biological Mother Imprisonment	1.21 [0.88, 1.65]	1.05 [0.75, 1.46]	1.20 [0.80, 1.81]	1.23 [0.88, 1.72]	1.08 [0.71, 1.65]
Biological Father only Imprisonment	1.33 [1.13, 1.58]	1.27 [1.06, 1.51]	1.22 [0.99, 1.51]	1.23 [1.02, 1.48]	1.14 [0.91, 1.42]
Biological Mother only Imprisonment	1.36 [0.93, 2.01]	1.22 [0.80, 1.85]	1.64 [1.00, 2.70]	1.46 [0.96, 2.22]	1.48 [0.88, 2.47]
Biological Mother & Father Imprisonment	1.15 [0.69, 1.92]	0.95 [0.56, 1.61]	0.79 [0.38, 1.63]	1.04 [0.58, 1.85]	0.67 [0.31, 1.44]

Notes: Results are presented for parental imprisonment (age<18) for (1) any reported biological father imprisonment, (2) any report of biological mother imprisonment and (3) combined reports of biological father and mother imprisonment. Model 1= Parental Imprisonment + respondent age + respondent ethnicity + respondent gender. Model 2= Model 1 + Wave 1 Family Structure + parent educational attainment + census tract family poverty rate. Model 3= Model 1 +respondent BMI + adolescent school attachment + childhood physical abuse + difficult child temperament + adolescent marijuana use + adult binge drinking (time-varying) + serious adolescent delinquency. Model 4=Model 1+ parental discussion of STI risk + number of sex partners prior to age 18. Model 5=all variables used in prior models.