Socioeconomic disparities in STIs among young adults in the United States: examining the interaction between income and race/ethnicity

**Supplemental Material**

**Supplementary Table 1: Cumulative STI diagnosis rates (% and 95% confidence intervals), by race/ethnicity and income quintile, Waves II and III of Add Health**

<table>
<thead>
<tr>
<th></th>
<th>Poorest quintile</th>
<th>2nd poorest quintile</th>
<th>Middle quintile</th>
<th>2nd richest quintile</th>
<th>Richest quintile</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black non-Hispanic</td>
<td>27.78 (23.62 - 32.36)</td>
<td>28.04 (20.64 - 36.87)</td>
<td>23.98 (17.35 - 32.16)</td>
<td>27.00 (19.63 - 35.89)</td>
<td>17.80 (11.80 - 25.96)</td>
<td>26.13 (22.95 - 29.58)</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>19.99 (12.12 - 31.16)</td>
<td>6.03 (2.39 - 14.41)</td>
<td>11.25 (4.85 - 23.95)</td>
<td>7.08 (3.08 - 15.48)</td>
<td>2.50 (1.00 - 6.11)</td>
<td>9.29 (6.43 - 13.26)</td>
</tr>
</tbody>
</table>

N: 95% confidence intervals are calculated based on binomial proportions using the adjusted Wilson score method.
**Supplementary Table 2: Bivariate associations between independent predictors and STI diagnosis at Wave II or III of Add Health**

<table>
<thead>
<tr>
<th>Individual Race/Ethnicity</th>
<th>Odds Ratio</th>
<th>95% Confidence Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>6.01</td>
<td>[5.14 - 7.02]</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.21</td>
<td>[1.74 - 2.81]</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>2.17</td>
<td>[1.60 - 2.94]</td>
</tr>
<tr>
<td>Per capita family income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poorest quintile</td>
<td>2.22</td>
<td>[1.76 - 2.80]</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>2.03</td>
<td>[1.61 - 2.55]</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.41</td>
<td>[1.11 - 1.78]</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.27</td>
<td>[0.99 - 1.62]</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>0.70</td>
<td>[0.62 - 0.80]</td>
</tr>
<tr>
<td>Female</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Age at baseline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;14</td>
<td>0.99</td>
<td>[0.79 - 1.25]</td>
</tr>
<tr>
<td>14</td>
<td>1.02</td>
<td>[0.81 - 1.27]</td>
</tr>
<tr>
<td>15</td>
<td>0.92</td>
<td>[0.74 - 1.14]</td>
</tr>
<tr>
<td>16</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>0.71</td>
<td>[0.56 - 0.89]</td>
</tr>
<tr>
<td>&gt;17</td>
<td>0.72</td>
<td>[0.55 - 0.95]</td>
</tr>
<tr>
<td>Urbanicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Suburban</td>
<td>0.74</td>
<td>[0.57 - 0.96]</td>
</tr>
<tr>
<td>Rural</td>
<td>0.62</td>
<td>[0.46 - 0.82]</td>
</tr>
<tr>
<td>Region</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>0.67</td>
<td>[0.49 - 0.91]</td>
</tr>
<tr>
<td>Midwest</td>
<td>0.74</td>
<td>[0.57 - 0.97]</td>
</tr>
<tr>
<td>South</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Northeast</td>
<td>0.87</td>
<td>[0.60 - 1.26]</td>
</tr>
<tr>
<td>Type of school</td>
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<td></td>
</tr>
<tr>
<td>Public</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>Private</td>
<td>0.90</td>
<td>[0.64 - 1.27]</td>
</tr>
</tbody>
</table>

N is 10,791 individuals from 132 schools for all regressions.
Socioeconomic disparities in STIs among young adults in the United States: examining the interaction between income and race/ethnicity

Supplementary Table 3: Multivariable logistic regressions for race/ethnicity and income and STI diagnosis in Add Health: Primary analysis including covariate values (odds ratios and 95% confidence intervals)

<table>
<thead>
<tr>
<th></th>
<th>Race only</th>
<th>Race and Income</th>
<th>Race &amp; Income interaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of individuals</td>
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<td>10,791</td>
<td>10,791</td>
</tr>
<tr>
<td>AIC</td>
<td>9,604,887</td>
<td>9,563,401</td>
<td>9,535,430</td>
</tr>
<tr>
<td><strong>Individual Race/Ethnicity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.28 [1.64 - 3.17]</td>
<td>2.04 [1.47 - 2.83]</td>
<td>1.73 [0.74 - 4.07]</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>2.02 [1.28 - 3.19]</td>
<td>1.89 [1.21 - 2.96]</td>
<td>0.66 [0.30 - 1.48]</td>
</tr>
<tr>
<td><strong>Per capita family income</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.83 [1.38 - 2.42]</td>
<td>1.57 [1.15 - 2.16]</td>
<td></td>
</tr>
<tr>
<td>Poorest quintile</td>
<td>1.44 [1.05 - 1.99]</td>
<td>1.18 [1.10 - 2.00]</td>
<td></td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.48 [1.10 - 2.00]</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.09 [0.79 - 1.32]</td>
<td>1.09</td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>0.62 [0.53 - 0.73]</td>
<td>0.62 [0.52 - 0.73]</td>
<td>0.62 [0.53 - 0.73]</td>
</tr>
<tr>
<td>Female</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Age at baseline</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;14</td>
<td>0.93 [0.68 - 1.27]</td>
<td>0.92 [0.68 - 1.26]</td>
<td>0.92 [0.67 - 1.26]</td>
</tr>
<tr>
<td>14</td>
<td>1.12 [0.79 - 1.61]</td>
<td>1.10 [0.78 - 1.58]</td>
<td>1.07 [0.77 - 1.53]</td>
</tr>
<tr>
<td>15</td>
<td>1.09 [0.79 - 1.50]</td>
<td>1.00 [0.80 - 1.52]</td>
<td>1.00 [0.80 - 1.52]</td>
</tr>
<tr>
<td>16</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>17</td>
<td>0.91 [0.64 - 1.31]</td>
<td>0.93 [0.65 - 1.33]</td>
<td>0.92 [0.65 - 1.32]</td>
</tr>
<tr>
<td>&gt;17</td>
<td>0.81 [0.60 - 1.10]</td>
<td>0.82 [0.60 - 1.11]</td>
<td>0.81 [0.60 - 1.11]</td>
</tr>
<tr>
<td><strong>Urbanicity</strong></td>
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<td></td>
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<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Suburban</td>
<td>1.00 [0.76 - 1.30]</td>
<td>1.02 [0.79 - 1.32]</td>
<td>1.03 [0.79 - 1.34]</td>
</tr>
<tr>
<td>Rural</td>
<td>1.01 [0.75 - 1.37]</td>
<td>0.98 [0.73 - 1.31]</td>
<td>0.99 [0.74 - 1.33]</td>
</tr>
<tr>
<td><strong>Region</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>0.90 [0.71 - 1.14]</td>
<td>0.95 [0.76 - 1.20]</td>
<td>0.96 [0.77 - 1.20]</td>
</tr>
<tr>
<td>Midwest</td>
<td>1.24 [0.95 - 1.63]</td>
<td>1.27 [0.98 - 1.64]</td>
<td>1.27 [0.98 - 1.64]</td>
</tr>
<tr>
<td>South</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Northeast</td>
<td>1.02 [0.74 - 1.40]</td>
<td>1.05 [0.77 - 1.44]</td>
<td>1.07 [0.78 - 1.46]</td>
</tr>
<tr>
<td><strong>Type of school</strong></td>
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<td></td>
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<tr>
<td>Public</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Private</td>
<td>0.98 [0.73 - 1.31]</td>
<td>1.07 [0.81 - 1.40]</td>
<td>1.09 [0.83 - 1.42]</td>
</tr>
<tr>
<td><strong>Per capita family income for White NH</strong></td>
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<td></td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.54 [1.00 - 2.37]</td>
<td>1.40 [0.93 - 2.10]</td>
<td></td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.43 [0.98 - 2.09]</td>
<td></td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.43 [0.98 - 2.09]</td>
<td></td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Per capita family income for Black NH</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.83 [1.10 - 3.05]</td>
<td>1.86 [0.93 - 3.70]</td>
<td></td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td></td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.58 [0.85 - 3.48]</td>
<td>1.05 [0.38 - 2.89]</td>
<td></td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Per capita family income for Hispanic</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richest quintile</td>
<td>2.25 [0.97 - 5.22]</td>
<td>1.69 [0.67 - 4.28]</td>
<td></td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.58 [0.85 - 3.48]</td>
<td>1.05 [0.38 - 2.89]</td>
<td></td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.58 [0.85 - 3.48]</td>
<td>1.05 [0.38 - 2.89]</td>
<td></td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Per capita family income for Other NH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richest quintile</td>
<td>8.97 [3.22 - 24.98]</td>
<td>2.43 [0.85 - 6.94]</td>
<td></td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>4.95 [1.46 - 16.79]</td>
<td>2.77 [0.85 - 9.08]</td>
<td></td>
</tr>
<tr>
<td>Middle quintile</td>
<td>4.95 [1.46 - 16.79]</td>
<td>2.77 [0.85 - 9.08]</td>
<td></td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>
Socioeconomic disparities in STIs among young adults in the United States: examining the interaction between income and race/ethnicity

### Supplementary Table 4: Multivariable logistic regressions for race/ethnicity, income and STI diagnosis in Add Health: within-income comparisons

<table>
<thead>
<tr>
<th>White non-Hispanic</th>
<th>Primary analysis</th>
<th>Female</th>
<th>Chlamydia</th>
<th>Gonorrhoea</th>
<th>Trichomoniasis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Poorest quintile</strong></td>
<td>1.54 [1.00 - 2.37]</td>
<td>0.71 [0.31 - 1.59]</td>
<td>1.08 [0.64 - 1.81]</td>
<td>1.79 [1.11 - 2.88]</td>
<td>2.35 [0.51 - 10.90]</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>0.96 [0.48 - 1.89]</td>
<td>1.07 [0.66 - 1.72]</td>
<td>1.46 [0.92 - 2.32]</td>
<td>4.33 [1.00 - 18.63]</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>0.90 [0.49 - 1.66]</td>
<td>0.82 [0.46 - 1.45]</td>
<td>1.31 [0.82 - 2.08]</td>
<td>1.12 [0.25 - 4.97]</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>0.91 [0.51 - 1.62]</td>
<td>1.07 [0.69 - 1.67]</td>
<td>1.42 [0.91 - 2.21]</td>
<td>2.37 [0.59 - 9.56]</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Poorest quintile</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.53 [1.32 - 4.84]</td>
<td>2.66 [0.92 - 7.69]</td>
<td>2.44 [1.02 - 5.86]</td>
<td>2.40 [1.15 - 5.05]</td>
<td>3.00 [0.75 - 12.00]</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>3.85 [1.75 - 8.47]</td>
<td>16.04 [4.71 - 54.61]</td>
<td>1.98 [0.57 - 6.89]</td>
<td>2.88 [1.07 - 7.78]</td>
<td>7.54 [0.99 - 57.29]</td>
</tr>
<tr>
<td><strong>2nd poorest quintile</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>2.10 [1.24 - 3.55]</td>
<td>0.82 [0.25 - 2.72]</td>
<td>2.32 [1.06 - 5.07]</td>
<td>2.39 [1.37 - 4.18]</td>
<td>1.07 [0.31 - 3.69]</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.15 [0.41 - 3.25]</td>
<td>0.25 [0.04 - 1.70]</td>
<td>1.41 [0.49 - 4.04]</td>
<td>0.84 [0.22 - 3.25]</td>
<td>0.00 [0.00 - 0.00]</td>
</tr>
<tr>
<td><strong>Middle quintile</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>2.10 [1.11 - 3.96]</td>
<td>3.47 [1.42 - 8.46]</td>
<td>1.89 [0.74 - 4.81]</td>
<td>2.40 [1.18 - 4.87]</td>
<td>1.06 [0.14 - 7.84]</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.52 [0.94 - 6.73]</td>
<td>1.65 [0.25 - 10.83]</td>
<td>3.75 [1.10 - 12.79]</td>
<td>2.06 [0.57 - 7.38]</td>
<td>1.00</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>2nd richest quintile</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>1.27 [0.61 - 2.65]</td>
<td>1.41 [0.52 - 3.83]</td>
<td>0.60 [0.20 - 1.78]</td>
<td>1.18 [0.46 - 3.06]</td>
<td>1.19 [0.16 - 8.91]</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.28 [0.53 - 3.13]</td>
<td>0.50 [0.14 - 1.77]</td>
<td>2.44 [0.82 - 7.25]</td>
<td>1.64 [0.65 - 4.17]</td>
<td>1.00</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Richest quintile</strong></td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>1.73 [0.74 - 4.07]</td>
<td>1.06 [0.23 - 4.96]</td>
<td>1.18 [0.39 - 3.60]</td>
<td>1.26 [0.47 - 3.42]</td>
<td>1.00</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0.66 [0.30 - 1.48]</td>
<td>0.30 [0.07 - 1.28]</td>
<td>0.68 [0.19 - 2.43]</td>
<td>0.62 [0.20 - 1.92]</td>
<td>1.00</td>
</tr>
</tbody>
</table>

No. of individuals | 10,791 | 5,156 | 5,635 | 10,791 | 10,791 | 10,791

Values are odds ratios and [95% confidence intervals]. All models are also adjusted for individual age in years and sex, and for school region, urbanicity and public/private school type.
The top set of odds ratios are comparisons across Income quintiles within White non-Hispanics; the lower five sets of odds ratios are comparisons across Race/Ethnicity within income quintiles. Cells containing en-dashes represent categories with insufficient numbers of cases to allow estimation.
Socioeconomic disparities in STIs among young adults in the United States: examining the interaction between income and race/ethnicity

Supplementary Table 5: Multivariable logistic regressions for race/ethnicity, income and STI diagnosis in Add Health: within-race/ethnicity comparisons

<table>
<thead>
<tr>
<th>Individual Race/Ethnicity</th>
<th>Primary analysis</th>
<th>Male</th>
<th>Female</th>
<th>Chlamydia</th>
<th>Gonorrhoea</th>
<th>Trichomoniasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>White non-Hispanic</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.73 [0.74 - 4.07]</td>
<td>1.06 [0.23 - 4.96]</td>
<td>1.18 [0.39 - 3.60]</td>
<td>1.26 [0.47 - 3.42]</td>
<td>2.81 [0.32 - 24.51]</td>
<td>2.24 [0.57 - 8.89]</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>0.66 [0.30 - 1.48]</td>
<td>0.30 [0.07 - 1.28]</td>
<td>0.68 [0.19 - 2.43]</td>
<td>0.62 [0.20 - 1.92]</td>
<td>11.72 [1.53 - 90.03]</td>
<td>0.61 [0.16 - 2.26]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Per capita family income</th>
<th>White non-Hispanic</th>
<th>Black non-Hispanic</th>
<th>Hispanic</th>
<th>Other non-Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poorest quintile</td>
<td>1.54 [1.00 - 2.37]</td>
<td>1.83 [1.10 - 3.05]</td>
<td>2.25 [0.97 - 5.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.86 [0.93 - 3.70]</td>
<td>1.69 [0.67 - 4.28]</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.00</td>
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<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.86 [0.93 - 3.70]</td>
<td>1.69 [0.67 - 4.28]</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.77 [0.97 - 3.22]</td>
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<td>Richest quintile</td>
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<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.86 [0.93 - 3.70]</td>
<td>1.69 [0.67 - 4.28]</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>Richest quintile</td>
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<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.86 [0.93 - 3.70]</td>
<td>1.69 [0.67 - 4.28]</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.77 [0.97 - 3.22]</td>
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<tr>
<td>Richest quintile</td>
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<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.86 [0.93 - 3.70]</td>
<td>1.69 [0.67 - 4.28]</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.52 [0.82 - 2.81]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.00</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.77 [0.97 - 3.22]</td>
<td>1.77 [0.97 - 3.22]</td>
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<tr>
<td>Richest quintile</td>
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<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
</tbody>
</table>

No. of individuals: 10,791

Values are odds ratios and [95% confidence intervals]. All models are also adjusted for individual age in years and sex, and for school region, urbanicity and public/private school type.

The top set of odds ratios are comparisons across Race/Ethnicity within the highest income quintile; the lower four sets of odds ratios are comparisons across Income quintiles within racial/ethnic categories. Cells containing en-dashes represent categories with insufficient numbers of cases to allow estimation.
Supplementary Table 6: Multivariable logistic regressions for race/ethnicity and income and STI diagnosis in Add Health: robustness checks

<table>
<thead>
<tr>
<th></th>
<th>Primary analysis</th>
<th>Added Wave I outcomes</th>
<th>Restricted to those responding at all three waves</th>
<th>Restricted to data from Waves I &amp; II only</th>
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<tbody>
<tr>
<td><strong>White non-Hispanic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poorest quintile</td>
<td>1.54 [1.00 - 2.37]</td>
<td>1.52 [1.03 - 2.24]</td>
<td>1.44 [0.92 - 2.25]</td>
<td>1.50 [0.60 - 3.78]</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.40 [0.93 - 2.10]</td>
<td>1.37 [0.95 - 1.99]</td>
<td>1.48 [0.94 - 2.31]</td>
<td>1.81 [0.80 - 4.10]</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>1.30 [0.86 - 1.98]</td>
<td>1.29 [0.88 - 1.90]</td>
<td>1.37 [0.90 - 2.08]</td>
<td>0.78 [0.18 - 3.35]</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.43 [0.98 - 2.09]</td>
<td>1.45 [1.01 - 2.10]</td>
<td>1.55 [1.03 - 2.32]</td>
<td>1.75 [0.79 - 3.89]</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td><strong>Black non-Hispanic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hispanic</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poorest quintile</td>
<td>3.90 [2.24 - 6.76]</td>
<td>3.74 [2.25 - 6.21]</td>
<td>3.75 [2.08 - 6.74]</td>
<td>2.54 [0.94 - 6.82]</td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>2.93 [1.72 - 5.01]</td>
<td>2.63 [1.55 - 4.48]</td>
<td>2.90 [1.60 - 5.23]</td>
<td>1.93 [0.64 - 5.79]</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>2.73 [1.57 - 4.76]</td>
<td>2.56 [1.49 - 4.42]</td>
<td>3.43 [1.87 - 6.29]</td>
<td>6.59 [2.64 - 16.47]</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.81 [0.85 - 3.87]</td>
<td>1.69 [0.82 - 3.50]</td>
<td>1.67 [0.78 - 3.57]</td>
<td>1.97 [0.54 - 7.20]</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>1.73 [0.74 - 4.07]</td>
<td>2.41 [1.11 - 5.25]</td>
<td>1.88 [0.74 - 4.76]</td>
<td>1.46 [0.34 - 6.33]</td>
</tr>
<tr>
<td><strong>Other non-Hispanic</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>2nd poorest quintile</td>
<td>1.61 [0.57 - 4.53]</td>
<td>1.43 [0.52 - 3.93]</td>
<td>1.07 [0.40 - 2.91]</td>
<td>0.10 [0.01 - 1.03]</td>
</tr>
<tr>
<td>Middle quintile</td>
<td>3.27 [1.22 - 8.77]</td>
<td>2.99 [1.11 - 8.08]</td>
<td>3.79 [1.36 - 10.62]</td>
<td>1.06 [0.18 - 6.40]</td>
</tr>
<tr>
<td>2nd richest quintile</td>
<td>1.84 [0.72 - 4.71]</td>
<td>1.66 [0.65 - 4.21]</td>
<td>2.46 [0.92 - 6.58]</td>
<td>3.07 [0.56 - 16.68]</td>
</tr>
<tr>
<td>Richest quintile</td>
<td>0.66 [0.30 - 1.48]</td>
<td>1.00 [0.41 - 2.43]</td>
<td>0.59 [0.19 - 1.82]</td>
<td>-</td>
</tr>
</tbody>
</table>

No. of individuals (level-1) | 10,791 | 10,791 | 8,390 | 10,370

Values are odds ratios and [95% confidence intervals]. All models are also adjusted for individual age in years and sex, and for school region, urbanicity and public/private school type.

All odds ratios are for comparisons with White non-Hispanics in the richest income quintile. Cells containing en-dashes represent categories with insufficient numbers of cases to allow estimation.
## Supplementary Table 7: A comparison of Add Health respondents at Wave II or III with Missing and Non-Missing family incomes at Wave I

<table>
<thead>
<tr>
<th>No. of respondents</th>
<th>Poorest</th>
<th>2nd poorest</th>
<th>Middle</th>
<th>2nd richest</th>
<th>Richest</th>
<th>All non-Missing</th>
<th>Missing</th>
<th>$\chi^2$ value</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individual Race/Ethnicity</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>45.8% (4.5%)</td>
<td>62.5% (3.7%)</td>
<td>74.4% (3.0%)</td>
<td>82.7% (2.1%)</td>
<td>83.4% (2.0%)</td>
<td>70.0% (2.9%)</td>
<td>56.9% (3.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>29.1% (4.2%)</td>
<td>18.6% (2.7%)</td>
<td>11.7% (2.0%)</td>
<td>6.5% (1.1%)</td>
<td>6.9% (1.2%)</td>
<td>14.4% (2.1%)</td>
<td>20.3% (3.1%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>20.5% (3.7%)</td>
<td>13.5% (2.3%)</td>
<td>9.4% (1.4%)</td>
<td>7.2% (1.2%)</td>
<td>5.1% (0.7%)</td>
<td>11.0% (1.7%)</td>
<td>14.6% (2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>4.6% (1.1%)</td>
<td>5.4% (1.3%)</td>
<td>4.4% (1.1%)</td>
<td>3.6% (0.8%)</td>
<td>4.6% (1.0%)</td>
<td>4.5% (0.8%)</td>
<td>8.2% (1.5%)</td>
<td>44.60</td>
<td>&lt;.0001</td>
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<tr>
<td><strong>Sex</strong></td>
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<tr>
<td>Male</td>
<td>48.6% (1.7%)</td>
<td>49.8% (1.4%)</td>
<td>46.7% (1.3%)</td>
<td>49.4% (1.9%)</td>
<td>49.3% (1.4%)</td>
<td>48.7% (0.7%)</td>
<td>50.6% (1.2%)</td>
<td></td>
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</tr>
<tr>
<td>Female</td>
<td>51.4% (1.7%)</td>
<td>50.2% (1.4%)</td>
<td>53.3% (1.3%)</td>
<td>50.6% (1.9%)</td>
<td>50.7% (1.4%)</td>
<td>51.3% (0.7%)</td>
<td>49.4% (1.2%)</td>
<td>1.74</td>
<td>0.187</td>
</tr>
<tr>
<td><strong>Age at baseline</strong></td>
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<tr>
<td>&lt;14</td>
<td>18.9% (2.5%)</td>
<td>20.5% (2.4%)</td>
<td>21.6% (2.9%)</td>
<td>21.0% (2.8%)</td>
<td>18.8% (2.7%)</td>
<td>20.1% (2.2%)</td>
<td>14.2% (1.9%)</td>
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<tr>
<td>14</td>
<td>20.1% (2.4%)</td>
<td>18.0% (1.8%)</td>
<td>15.7% (1.4%)</td>
<td>15.9% (1.6%)</td>
<td>16.1% (1.7%)</td>
<td>17.1% (1.4%)</td>
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<td>15</td>
<td>17.5% (1.2%)</td>
<td>17.2% (1.3%)</td>
<td>18.0% (1.3%)</td>
<td>16.7% (1.2%)</td>
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<td>17.4% (0.9%)</td>
<td>14.8% (0.9%)</td>
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<tr>
<td>16</td>
<td>15.8% (1.6%)</td>
<td>15.6% (1.4%)</td>
<td>17.0% (1.5%)</td>
<td>17.7% (1.5%)</td>
<td>16.0% (1.4%)</td>
<td>16.4% (1.1%)</td>
<td>16.5% (1.2%)</td>
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<tr>
<td>17</td>
<td>15.2% (1.7%)</td>
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<td>15.2% (1.2%)</td>
<td>16.5% (1.5%)</td>
<td>19.6% (1.6%)</td>
<td>16.2% (1.1%)</td>
<td>17.8% (1.3%)</td>
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</tr>
<tr>
<td>&gt;17</td>
<td>12.5% (1.7%)</td>
<td>14.4% (1.5%)</td>
<td>12.5% (1.3%)</td>
<td>12.2% (1.1%)</td>
<td>12.3% (1.1%)</td>
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<td>Urban</td>
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<td>23.7% (4.0%)</td>
<td>21.3% (3.7%)</td>
<td>22.6% (4.5%)</td>
<td>25.7% (3.9%)</td>
<td>30.4% (4.8%)</td>
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<td>65.2% (5.0%)</td>
<td>67.2% (5.6%)</td>
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<td>17.5% (5.5%)</td>
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<td>10.2% (4.1%)</td>
<td>16.0% (4.2%)</td>
<td>13.9% (3.7%)</td>
<td>5.06</td>
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<tr>
<td>West</td>
<td>12.6% (3.5%)</td>
<td>14.1% (3.1%)</td>
<td>15.7% (3.3%)</td>
<td>17.7% (3.6%)</td>
<td>22.1% (4.8%)</td>
<td>16.5% (3.2%)</td>
<td>17.0% (3.8%)</td>
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</tr>
<tr>
<td>Midwest</td>
<td>28.9% (5.7%)</td>
<td>31.3% (5.2%)</td>
<td>35.0% (5.9%)</td>
<td>31.5% (5.6%)</td>
<td>33.3% (6.8%)</td>
<td>32.0% (5.1%)</td>
<td>24.9% (4.7%)</td>
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<tr>
<td>South</td>
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<td>34.5% (4.9%)</td>
<td>27.5% (4.7%)</td>
<td>37.1% (4.5%)</td>
<td>45.9% (5.3%)</td>
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<td>Northeast</td>
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<td>39.4% (3.3%)</td>
<td>47.5% (3.8%)</td>
<td>62.1% (4.2%)</td>
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<td>26.7% (3.2%)</td>
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<tr>
<td>Public</td>
<td>98.1% (1.0%)</td>
<td>95.0% (1.9%)</td>
<td>93.2% (2.3%)</td>
<td>91.8% (2.9%)</td>
<td>88.4% (3.8%)</td>
<td>93.3% (2.0%)</td>
<td>93.4% (2.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private</td>
<td>1.9% (1.0%)</td>
<td>5.0% (1.9%)</td>
<td>6.8% (2.3%)</td>
<td>8.2% (2.9%)</td>
<td>11.6% (3.8%)</td>
<td>6.7% (2.0%)</td>
<td>6.6% (2.2%)</td>
<td>0.00</td>
<td>0.946</td>
</tr>
<tr>
<td><strong>Proportion testing positive for any STI</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All respondents</td>
<td>14.7% (1.4%)</td>
<td>10.6% (1.2%)</td>
<td>8.3% (0.9%)</td>
<td>7.4% (0.7%)</td>
<td>5.2% (0.6%)</td>
<td>9.2% (0.6%)</td>
<td>10.8% (1.0%)</td>
<td>3.55</td>
<td>0.059</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>6.4% (1.2%)</td>
<td>5.9% (0.8%)</td>
<td>5.4% (0.8%)</td>
<td>5.9% (0.7%)</td>
<td>4.3% (0.6%)</td>
<td>5.4% (0.4%)</td>
<td>5.5% (0.7%)</td>
<td>0.41</td>
<td>0.524</td>
</tr>
<tr>
<td>Black non-Hispanic</td>
<td>27.8% (2.2%)</td>
<td>28% (4.1%)</td>
<td>24% (3.8%)</td>
<td>27% (4.1%)</td>
<td>17.8% (3.6%)</td>
<td>26.1% (1.7%)</td>
<td>28.4% (2.5%)</td>
<td>0.15</td>
<td>0.697</td>
</tr>
<tr>
<td>Hispanic</td>
<td>13.5% (2.4%)</td>
<td>10.5% (2.0%)</td>
<td>10% (2.4%)</td>
<td>6.8% (2.2%)</td>
<td>6.6% (2.5%)</td>
<td>10.6% (1.2%)</td>
<td>8.3% (1.6%)</td>
<td>3.32</td>
<td>0.069</td>
</tr>
<tr>
<td>Other non-Hispanic</td>
<td>20% (4.8%)</td>
<td>6% (2.8%)</td>
<td>11.3% (4.7%)</td>
<td>7.1% (3.0%)</td>
<td>2.5% (0.9%)</td>
<td>9.3% (1.7%)</td>
<td>8.7% (2.3%)</td>
<td>0.87</td>
<td>0.352</td>
</tr>
</tbody>
</table>

Percentages (and Standard Errors) are based on data weighted for non-random sampling and non-response.

The $\chi^2$ tests have k-1 degrees of freedom and are for comparisons of all respondents with non-missing values to those with missing values.