5 Hypothesis Model (5HM) Mediator Analyses – ACEs experienced from Birth to Age 5

Supplementary Table 12

*Mediation Results for Full Sample, Early Childhood ACEs*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | School Support | | Motivational Advantage | | Family Support | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 1277 | **--** | **--** | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 233 | -.098\* | -.086\* | 12.2 | -.100\*\* | **--** | -.102\*\* | **--** |
| **≥2 ACE** | 180 | -.068 | -.058 | -- | -.065 | -- | -.059 |  |
| **Occupational Prestige** | 1246 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 232 | -.048 | -.036 | -- | -.049 | -- | -.049 | -- |
| **≥2 ACE** | 176 | -.013 | .008 | -- | -.012 | -- | -.009 | -- |
| **Smoking** | 1132 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 213 | .095\* | .082\* | 13.7 | .095\* | -- | .092\* | 3.2 |
| **≥2 ACE** | 158 | .082 | .076 | -- | .078 | -- | .080 | -- |
| **Felony Charge** | 1307 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 239 | .020 | .016 | -- | .016 | -- | .017 | -- |
| **≥2 ACE** | 183 | .102\*\* | .098\*\* | 3.9 | .096\*\* | 5.9 | .095\*\* | 6.9 |
| **Juvenile Arrest** | 1240 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 229 | .037 | .031 | -- | .030 | -- | .034 | -- |
| **≥2 ACE** | 177 | .042 | .038 | **--** | .034 | **--** | .034 | **--** |

\*p <.10, \*p<.05, \*\*p<.01, \*\*\*p<.001.

*Note:* 0 ACEs = reference group; Social Adjustment and Cognitive Advantage mediators did not contribute to the model and were therefore omitted from this table.

Supplementary Table 13

*Mediation Results by Sex, Early Childhood ACEs*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Females | | | | | Males | | | | | | |
|  |  | Without Mediators | School Support | | Family Support | |  | Without Mediators | Motivational Advantage | | Family Support | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction | *N* | Marginal effect | % reduction | Marginal effect | Marginal effect | % reduction |
| **High School Graduation** | 677 | **--** | **--** | **--** | **--** | **--** | 600 | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 129 | -.108\* | -.092 | 14.8 | -.139\*\* | -- | 104 | -.072 | -- | -.087 | -.071 | -- |
| **≥2 ACE** | 85 | .005 | .025 | -- | .014 | -- | 95 | -.105 | 15.3 | -.124\* | -.114\* | 8.1 |
| **Occupational Prestige** | 655 | **--** | **--** | -- | -- | -- | 591 | -- | -- | -- | -- | -- |
| **1 ACE** | 128 | -.050 | -.032 | -- | -.062 | -- | 104 | -.029 | -- | -.038 | -.023 | -- |
| **≥2 ACE** | 81 | .059 | .066 | -- | .062 | -- | 95 | -.056 | -- | -.067 | -.061 | -- |
| **Smoking** | 616 | **--** | **--** | -- | -- | -- | 516 | -- | -- | -- | -- | -- |
| **1 ACE** | 123 | .097\* | .081 | 16.5 | .100\* | -- | 90 | .079 | -- | .084 | .076 | -- |
| **≥2 ACE** | 75 | .029 | .022 | -- | .029 | -- | 83 | .110 | 12.0 | .125\* | .122\* | 2.4 |
| **Felony Charge** | 688 | **--** | **--** | -- | -- | -- | 619 | -- | -- | -- | -- | -- |
| **1 ACE** | 133 | .013 | .010 | -- | .017 | -- | 106 | .010 | -- | .020 | .006 | -- |
| **≥2 ACE** | 87 | .082\* | .077\* | 6.1 | .077\* | 6.1 | 96 | .098 | 15.5 | .116\* | .106 | 8.6 |
| **Juvenile Arrest** | 656 | **--** | **--** | -- | -- | -- | 584 | -- | -- | -- | -- | -- |
| **1 ACE** | 129 | .030 | .025 | -- | .029 | -- | 100 | .030 | -- | .041 | .033 | -- |
| **≥2 ACE** | 85 | .047 | .044 | **--** | .043 | **--** | 92 | .015 | **--** | **--** | .021 | **--** |

\*p<.05, \*\*p<.01, \*\*\*p<.001

*Note:* 0 ACEs = reference group; For females, Social Adjustment, Motivational Advantage, and Cognitive Advantage mediators did not contribute to the model and were therefore omitted from this table. For males, Social Adjustment, School Support, and Cognitive Advantage mediators were omitted.

Supplementary Table 14

*Mediation Results for Participants Living in Neighborhoods Where More than 60% of Households Were Low Income*, *Early Childhood ACEs*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | School Support | | Motivational Advantage | | Family Support | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 976 | **--** | **--** | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 171 | -.123\*\* | -.124\*\* | -- | -.114\* | 7.3 | -.127\*\* | -- |
| **≥2 ACE** | 135 | -.096\* | -.082 | 14.6 | -.086 | 10.4 | -.084 | 12.5 |
| **Occupational Prestige** | 948 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 169 | -.069 | -.063 | -- | -.060 | -- | -.069 | -- |
| **≥2 ACE** | 131 | -.035 | -.028 | -- | .024 | -- | -.029 | -- |
| **Smoking** | 863 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 156 | .120\*\* | .113\* | 5.8 | .110\*\* | 8.3 | .118\* | 1.7 |
| **≥2 ACE** | 116 | .115\* | .109\* | 5.2 | .103\* | 10.4 | .114\* | 1.0 |
| **Felony Charge** | 999 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 174 | .026 | .027 | -- | .015 | -- | .026 | -- |
| **≥2 ACE** | 138 | .129\*\* | .122\*\* | 5.4 | .117\*\* | 9.3 | .123\*\* | 4.7 |
| **Juvenile Arrest** | 945 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 165 | .051 | .049 | -- | .037 | -- | .053 | -- |
| **≥2 ACE** | 134 | .043 | .037 | -- | .027 | -- | .036 | -- |

\*p<.05, \*\*p<.01, \*\*\*p<.001.

*Note:* 0 ACEs = reference group; Social Adjustment and Cognitive Advantage mediators contributed minimally to the model and were therefore omitted from this table.

Supplementary Table 15

*Five and Seven Mediator Results, Full Sample, Early Childhood ACEs*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 1277 | **--** | -- | -- | -- | -- |
| **1 ACE** | 233 | -.098\* | -.107\*\* | -- | -- | **--** |
| **≥2 ACE** | 180 | -.068 | -.082 | -- | -- | **--** |
| **Occupational Prestige** | 1246 | **--** | -- | -- | -- | **--** |
| **1 ACE** | 232 | -.048 | -.045 | -- | -.035 | **--** |
| **≥2 ACE** | 176 | -.013 | -.049 | -- | -.043 | **--** |
| **Smoking** | 1132 | **--** | -- | -- | -- | -- |
| **1 ACE** | 213 | .095\* | .092\* | 3.2 | .095\* | -- |
| **≥2 ACE** | 158 | .082 | .096\* | -- | .077 | 6.1 |
| **Felony Charge** | 1307 | **--** | -- | -- | -- | -- |
| **1 ACE** | 239 | .020 | .013 | -- | .005 | -- |
| **≥2 ACE** | 183 | .102\*\* | .106\*\* | -- | .082\* | 19.6 |
| **Juvenile Arrest** | 1240 | **--** | -- | -- | -- | -- |
| **1 ACE** | 229 | .037 | .030 | -- | -- | -- |
| **≥2 ACE** | 177 | .042 | .032 | -- | -- | -- |

\*p < .10, \*p<.05, \*\*p<.01, \*\*\*p<.001.

*Note:* 0 ACEs = reference group

Supplementary Table 16

*Five and Seven Mediator Results, Male Sample, Early Childhood ACEs*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **Felony Charge** | 619 | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 106 | .020 | .005 | -- | .028 | **--** |
| **≥2 ACE** | 96 | .116\* | .128\* | -- | .086 | 25.9 |

\*p<.05, \*\*p<.01, \*\*\*p<.001.

*Note:* 0 ACEs = reference group

Supplementary Table 17

*Five and Seven Mediator Results, Female Sample, Early Childhood ACEs*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **Smoking** | 616 | **--** | -- | -- | -- | -- |
| **1 ACE** | 123 | .097\* | .096\* | 1.0 | .084 | 13.4 |
| **≥2 ACE** | 75 | .029 | .033 | -- | .003 | -- |
| **Felony Charge** | 688 | **--** | -- | -- | -- | -- |
| **1 ACE** | 133 | .013 | .010 | -- | .005 | -- |
| **≥2 ACE** | 87 | .082\* | .076\* | 7.3 | .074\* | 9.8 |

\*p<.05, \*\*p<.01, \*\*\*p<.001.

*Note:* 0 ACEs = reference group

Supplementary Table 18

*Select Five and Seven Mediator Results for Participants Living in Neighborhoods Where More than 60% of Households Were Low-Income, Early Childhood ACEs*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **Smoking** | 863 | **--** | -- | -- | -- | -- |
| **0 ACE (reference)** | 591 | **--** | -- | -- | -- | -- |
| **1 ACE** | 156 | .120\*\* | .114\* | 5.0 | .097\* | 19.2 |
| **≥2 ACE** | 116 | .115\* | .131\* | -- | .109 | 5.2 |
| **Felony Charge** | 999 | **--** | -- | -- | -- | -- |
| **0 ACE (reference)** | 687 | **--** | **--** | **--** | **--** | -- |
| **1 ACE** | 174 | .026 | .018 | -- | -.007 | -- |
| **≥2 ACE** | 138 | .129\*\* | .128\*\* | 0.8 | .103\* | 20.2 |

\*p<.05, \*\*p<.01, \*\*\*p<.001

*Note:* 0 ACEs = reference group