5 Hypothesis Model (5HM) Mediator Analyses – ACEs experienced from Birth to Age 18

Supplementary Table 1

*Mediation Results for Full Sample, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | School Support | | Motivational Advantage | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 1277 | -- | -- | -- | -- | -- |
| **1 ACE** | 285 | -.043 | -.051 | -- | -.047 | -- |
| **2 ACE** | 193 | -.044 | -.038 | -- | -.042 | -- |
| **3 ACE** | 181 | -.097\* | -.096\* | 1.0 | -.103\* | -- |
| **≥4 ACE** | 237 | -.240\*\*\* | -.222\*\*\* | 7.5 | .251\*\*\* | -- |
| **Occupational Prestige** | 1246 | -- | -- | -- | -- | -- |
| **1 ACE** | 279 | .014 | .013 | -- | .012 | -- |
| **2 ACE** | 185 | -.078\* | -.072 | 7.7 | -.076\* | 2.6 |
| **3 ACE** | 176 | -.043 | -.039 | -- | .049 | -- |
| **≥4 ACE** | 236 | -.060 | -.044 | -- | .065\* | -- |
| **Smoking** | 1132 | -- | -- | -- | -- | -- |
| **1 ACE** | 258 | .012 | .009 | -- | .012 | -- |
| **2 ACE** | 169 | .103\* | .096\* | 6.8 | .102\* | 1.0 |
| **3 ACE** | 158 | .124\* | .120\* | 3.2 | .128\* | -- |
| **≥4 ACE** | 210 | .183\*\*\* | .167\*\*\* | 8.7 | .190\*\*\* | -- |
| **Felony Charge** | 1307 | **--** | -- | -- | -- | -- |
| **1 ACE** | 289 | -.023 | -.024 | -- | -.025 | -- |
| **2 ACE** | 199 | .017 | .014 | -- | .015 | -- |
| **3 ACE** | 181 | .025 | .027 | -- | .023 | -- |
| **≥4 ACE** | 245 | .133\*\*\* | .117\*\* | 12.0 | .133\*\*\* | -- |
| **Juvenile Arrest** | 1240 | -- | -- | -- | -- | -- |
| **1 ACE** | 281 | .027 | .026 | -- | .025 | -- |
| **2 ACE** | 187 | .001 | -.001 | -- | -.006 | -- |
| **3 ACE** | 174 | .032 | .030 | -- | .029 | -- |
| **≥4 ACE** | 236 | .143\*\*\* | .125\*\* | 12.6 | .137\*\*\* | 4.2 |

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

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

Supplementary Table 2

*Mediation Results for Males, ACEs 0-18*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Social Adjustment | | School Support | | Motivational Advantage | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 600 | -- | -- | -- | -- | -- | -- | -- |
| **1 ACE** | 126 | -.088 | -.112 | **--** | -.098 | -- | -.080 | -- |
| **2 ACE** | 83 | -.141\* | -.164\* | **--** | -.155\* | -- | -.135\* | 4.3 |
| **3 ACE** | 90 | -.125\* | -.166\*\* | **--** | -.142\* | -- | -.119 | 4.8 |
| **≥4 ACE** | 138 | -.315\*\*\* | -.340\*\*\* | **--** | -307\*\*\* | 2.5 | -.324\*\*\* | -- |
| **Occupational Prestige** | 591 | -- | **--** | **--** | -- | -- | -- | -- |
| **1 ACE** | 124 | .013 | -.008 | **--** | -.012 | -- | .003 | -- |
| **2 ACE** | 80 | -.064 | -.068 | **--** | -.071 | -- | -.055 | -- |
| **3 ACE** | 89 | -.079 | -.089\* | **--** | -.084\* | -- | -.077 | -- |
| **≥4 ACE** | 140 | -.070 | -.065 | **--** | -.055 | -- | -.065 | -- |
| **Smoking** | 516 | -- | -- | -- | -- | -- | -- | -- |
| **1 ACE** | 108 | .032 | .042 | **--** | .037 | -- | .018 | -- |
| **2 ACE** | 70 | .095 | .104 | **--** | .106 | -- | .089 | -- |
| **3 ACE** | 78 | .212\*\* | .229\*\* | **--** | .226\*\*\* | -- | .206\*\* | 2.8 |
| **≥4 ACE** | 122 | .206\*\* | .221\*\*\* | **--** | .194\*\*\* | 5.8 | .204\*\* | 1.0 |
| **Felony Charge** | 619 | -- | **--** | **--** | -- | -- | -- | -- |
| **1 ACE** | 128 | .000 | .012 | **--** | .000 | -- | -.007 | -- |
| **2 ACE** | 87 | .036 | .037 | **--** | .038 | -- | .031 | -- |
| **3 ACE** | 90 | -.014 | .009 | **--** | -.004 | -- | -.022 | -- |
| **≥4 ACE** | 143 | .227\*\*\* | .239\*\*\* | **--** | .213\*\*\* | 6.2 | .226\*\*\* | 0.5 |
| **Juvenile Arrest** | 584 | -- | -- | -- | -- | -- | -- | -- |
| **1 ACE** | 125 | .066 | .068 | **--** | .063 | -- | .060 | -- |
| **2 ACE** | 82 | -.014 | -.025 | **--** | -.009 | -- | -.020 | -- |
| **3 ACE** | 81 | .012 | .030 | **--** | .017 | -- | .006 | -- |
| **≥4 ACE** | 139 | .154\* | .144\* | 6.5 | .131\* | 14.9 | .148\* | 3.9 |

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

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

Supplementary Table 3

*Mediation Results for Females, ACEs 0-18*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | School Support | | Motivational Advantage | | Family Support | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 677 | -- | -- | -- | -- | -- | -- | -- |
| **1 ACE** | 159 | -.015 | -.020 | -- | -.028 | -- | -.029 | -- |
| **2 ACE** | 110 | .027 | .037 | -- | .017 | -- | .033 | -- |
| **3 ACE** | 91 | -.079 | -.069 | -- | -.093 | -- | -.085 | -- |
| **≥4 ACE** | 99 | -.129\* | -.106 | 17.8 | -.146\* | -- | -.131\* | -- |
| **Occupational Prestige** | 655 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 155 | .039 | .038 | -- | .029 | -- | .032 | -- |
| **2 ACE** | 105 | -.085 | -.073 | -- | -.085 | -- | -.084 | -- |
| **3 ACE** | 87 | -.004 | .005 | -- | -.015 | -- | -.012 | -- |
| **≥4 ACE** | 96 | -.042 | -.026 | -- | -.051 | -- | -.043 | -- |
| **Smoking** | 616 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 150 | .000 | -.003 | -- | .011 | -- | .003 | -- |
| **2 ACE** | 99 | .102 | .089 | -- | .106 | -- | .101 | -- |
| **3 ACE** | 80 | .029 | .021 | -- | .041 | -- | .032 | -- |
| **≥4 ACE** | 88 | .144\* | .128\* | -- | .157\* | -- | .143\* | -- |
| **Felony Charge** | 688 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 161 | -.037\*\* | -.036\*\* | -- | -.035\*\* | -- | -.034\*\* | -- |
| **2 ACE** | 112 | -.003 | -.004 | -- | -.003 | -- | -.001 | -- |
| **3 ACE** | 91 | .036 | .035 | -- | .036 | -- | .035 | -- |
| **≥4 ACE** | 102 | .031 | .028 | -- | .033 | -- | .032 | -- |
| **Juvenile Arrest** | 656 | **--** | **--** | -- | -- | -- | -- | -- |
| **1 ACE** | 156 | -.004 | -.004 | -- | -.008 | -- | -.002 | -- |
| **2 ACE** | 105 | .009 | .006 | -- | .000 | -- | .006 | -- |
| **3 ACE** | 93 | .038 | .036 | -- | .032 | -- | .034 | -- |
| **≥4 ACE** | 97 | .130\*\* | .123\* | -- | .114\* | 12.3 | .125\* | 3.8 |

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

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

Supplementary Table 4

*Mediation Results for Participants Living in Neighborhoods Where More than 60% of Households Were Low Income, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | School Support | | Family Support | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 976 | **--** | -- | -- | -- | -- |
| **1 ACE** | 218 | -.061 | -.078 | -- | -.074 | -- |
| **2 ACE** | 141 | -.066 | -.072 | -- | -.070 | -- |
| **3 ACE** | 141 | -.129\* | -.134\* | -- | -.122\* | 5.4 |
| **≥4 ACE** | 172 | -.248\*\*\* | -.233\*\*\* | 6.0 | -.255\*\*\* | -- |
| **Occupational Prestige** | 948 | **--** | -- | -- | -- | -- |
| **1 ACE** | 212 | .007 | .003 | -- | .003 | -- |
| **2 ACE** | 135 | -.052 | -.052 | -- | -.054 | -- |
| **3 ACE** | 136 | -.092\* | -.091\* | -- | -.094\* | -- |
| **≥4 ACE** | 170 | -.091\* | -.077 | 15.4 | -.089\* | -- |
| **Smoking** | 863 | **--** | -- | -- | -- | -- |
| **1 ACE** | 198 | -.003 | -.001 | -- | -.002 | -- |
| **2 ACE** | 123 | .097 | .096 | -- | .098 | -- |
| **3 ACE** | 120 | .140\* | .135\* | -- | .138\* | -- |
| **≥4 ACE** | 154 | .175\*\* | .160\*\* | -- | .174\*\* | -- |
| **Felony Charge** | 999 | **--** | -- | -- | -- | -- |
| **1 ACE** | 220 | -.022 | -.019 | -- | -.020 | -- |
| **2 ACE** | 146 | .030 | .034 | -- | .035 | -- |
| **3 ACE** | 141 | .047 | .046 | -- | .045 | -- |
| **≥4 ACE** | 178 | .126\*\* | .112\*\* | -- | .129\*\* | -- |
| **Juvenile Arrest** | 945 | -- | -- | -- | -- | -- |
| **1 ACE** | 212 | .034 | .035 | -- | .035 | -- |
| **2 ACE** | 137 | .009 | .013 | -- | .015 | -- |
| **3 ACE** | 136 | .040 | .038 | -- | .033 | **--** |
| **≥4 ACE** | 171 | .131\*\* | .116\*\* | -- | .132\*\* | **--** |

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

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

Supplementary Table 5

*Mediation Results for Participants Living in Neighborhoods Where Less than 60% of Households Were Low Income, ACEs 0-18*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | | School Support | |
| Outcome | *N* | Marginal effect | Marginal effect | | % reduction |
| **High School Graduation** | 301 | -- | -- | | -- |
| **1 ACE** | 67 | .039 | .052 | | **--** |
| **2 ACE** | 52 | .061 | .090 | | **--** |
| **3 ACE** | 40 | .019 | .028 | | **--** |
| **≥4 ACE** | 65 | -.177\* | -.158 | | 10.7 |
| **Occupational Prestige** | 298 | -- | **--** | | **--** |
| **1 ACE** | 67 | .060 | .064 | | **--** |
| **2 ACE** | 50 | -.114 | -.106 | | **--** |
| **3 ACE** | 40 | .162 | .167 | | **--** |
| **≥4 ACE** | 66 | .084 | .091 | | **--** |
| **Smoking** | 269 | -- | -- | | -- |
| **1 ACE** | 60 | .076 | .062 | | **--** |
| **2 ACE** | 46 | .132 | .116 | | **--** |
| **3 ACE** | 38 | .101 | .092 | | **--** |
| **≥4 ACE** | 56 | .215\* | .195\* | | **--** |
| **Felony Charge** | 308 | **--** | **--** | | **--** |
| **1 ACE** | 69 | -.034 | -.050 | | **--** |
| **2 ACE** | 53 | -.031 | .047 | | **--** |
| **3 ACE** | 40 | -.057 | -.040 | | **--** |
| **≥4 ACE** | 67 | .124 | .111 | | **--** |
| **Juvenile Arrest** | 295 | -- | -- | | -- |
| **1 ACE** | 69 | .014 | .000 | | **--** |
| **2 ACE** | 50 | -.014 | -.041 | | **--** |
| **3 ACE** | 38 | .013 | .015 | | **--** |
| **≥4 ACE** | 65 | .167\* | .142 | | 15.0 |

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

*Note:* 0 ACEs = reference group; The Social Adjustment, Motivational Advantage, Family Support, and Cognitive Advantage mediators contributed minimally or did not contribute to the model and were therefore omitted from this table.

Supplementary Table 6

*Five and Seven Mediator Results, Full Sample, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 1277 | -- | -- | -- | -- | -- |
| **1 ACE** | 285 | -.043 | -.074 | -- | -- | -- |
| **2 ACE** | 193 | -.044 | -.058 | -- | -- | -- |
| **3 ACE** | 181 | -.097\* | -.128\* | -- | -- | -- |
| **≥4 ACE** | 237 | -.240\*\*\* | -264\*\*\* | -- | -- | -- |
| **Occupational Prestige** | 1246 | -- | -- | -- | -- | -- |
| **1 ACE** | 279 | .014 | -.005 | -- | -.002 | -- |
| **2 ACE** | 185 | -.078\* | -.087\* | -- | -.081\* | **--** |
| **3 ACE** | 176 | -.043 | -.069 | -- | -.032 | -- |
| **≥4 ACE** | 236 | -.060 | -.082\* | -- | -.013 | **--** |
| **Smoking** | 1132 | -- | **--** | **--** | **--** | **--** |
| **1 ACE** | 258 | .012 | .013 | -- | .009 | **--** |
| **2 ACE** | 169 | .103\* | .098\* | 4.9 | .090 | 12.6 |
| **3 ACE** | 158 | .124\* | .133\*\* | -- | .117\* | 5.6 |
| **≥4 ACE** | 210 | .183\*\*\* | .191\*\*\* | -- | .129\* | 29.5 |
| **Felony Charge** | 1307 | -- | -- | -- | -- | **--** |
| **1 ACE** | 289 | -.023 | -.020 | -- | -.030 | **--** |
| **2 ACE** | 199 | .017 | .012 | -- | .008 | **--** |
| **3 ACE** | 181 | .025 | .032 | -- | .019 | **--** |
| **≥4 ACE** | 245 | .133\*\*\* | .129\*\*\* | -- | .070\* | 47.4 |
| **Juvenile Arrest** | 1240 | -- | -- | **--** |  |  |
| **1 ACE** | 281 | .027 | .026 | **--** | **--** | **--** |
| **2 ACE** | 187 | .001 | -.008 | **--** | **--** | **--** |
| **3 ACE** | 174 | .032 | .031 | **--** | **--** | **--** |
| **≥4 ACE** | 236 | .143\*\*\* | .122\*\* | 14.7 | **--** | **--** |

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

*Note:* 0 ACEs = reference group

Supplementary Table 7

*Five and Seven Mediator Results, Male Sample, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 600 | -- | **--** | **--** | **--** | **--** |
| **1 ACE** | 126 | -.088 | -.105 | -- | **--** | **--** |
| **2 ACE** | 83 | -.141\* | -.165\* | -- | **--** | **--** |
| **3 ACE** | 90 | -.125\* | -.178\*\* | -- | **--** | **--** |
| **≥4 ACE** | 138 | -.315\*\*\* | -.344\*\*\* | -- | **--** | **--** |
| **Occupational Prestige** | 591 | -- | -- | **--** | **--** | -- |
| **1 ACE** | 124 | .013 | .004 | -- | .023 | **--** |
| **2 ACE** | 80 | -.064 | -.065 | -- | -.043 | **--** |
| **3 ACE** | 89 | -.079 | -.098\*\* | -- | -.054 | **--** |
| **≥4 ACE** | 140 | -.070 | -.061 | *--* | .021 | **--** |
| **Smoking** | 516 | -- | -- | -- | -- | -- |
| **1 ACE** | 108 | .032 | .021 | -- | .012 | -- |
| **2 ACE** | 70 | .095 | .103 | -- | .059 | -- |
| **3 ACE** | 78 | .212\*\* | .255\*\*\* | -- | .253\*\* | -- |
| **≥4 ACE** | 122 | .206\*\* | .228\*\*\* | -- | .162\* | 21.4 |
| **Felony Charge** | 619 | -- | -- | -- | -- | -- |
| **1 ACE** | 128 | .000 | -.009 | -- | -.044 | -- |
| **2 ACE** | 87 | .036 | .024 | -- | .006 | -- |
| **3 ACE** | 90 | -.014 | .008 | -- | -.012 | -- |
| **≥4 ACE** | 143 | .227\*\*\* | .234\*\*\* | -- | .139\* | 38.8 |
| **Juvenile Arrest** | 584 | -- | -- | -- | -- | -- |
| **1 ACE** | 125 | .066 | .049 | **--** | **--** | **--** |
| **2 ACE** | 82 | -.014 | -.021 | **--** | **--** | **--** |
| **3 ACE** | 81 | .012 | .023 | **--** | **--** | **--** |
| **≥4 ACE** | 139 | .154\* | .125\* | **--** | **--** | **--** |

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

*Note:* 0 ACEs = reference group

Supplementary Table 8

*Five and Seven Mediator Results, Female Sample, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 677 | -- | -- | -- | -- | -- |
| **1 ACE** | 159 | -.015 | -.055 | **--** | **--** | **--** |
| **2 ACE** | 110 | .027 | .010 | **--** | **--** | **--** |
| **3 ACE** | 91 | -.079 | -.097 | **--** | **--** | **--** |
| **≥4 ACE** | 99 | -.129\* | -.160\* | **--** | **--** | **--** |
| **Occupational Prestige** | 655 | **--** | -- | **--** | **--** | **--** |
| **1 ACE** | 155 | .039 | .000 | **--** | -.014 | **--** |
| **2 ACE** | 105 | -.085 | -.102 | **--** | -.109 | **--** |
| **3 ACE** | 87 | -.004 | -.023 | **--** | .013 | **--** |
| **≥4 ACE** | 96 | -.042 | -.086 | **--** | -.034 | **--** |
| **Smoking** | 616 | **--** | -- | -- | -- | -- |
| **1 ACE** | 150 | .000 | .018 | -- | .021 | **--** |
| **2 ACE** | 99 | .102 | .105 | -- | .121 | **--** |
| **3 ACE** | 80 | .029 | .027 | -- | .010 | **--** |
| **≥4 ACE** | 88 | .144\* | .175\*\* | -- | .119 | 17.4 |
| **Felony Charge** | 688 | **--** | -- | -- | -- | **--** |
| **1 ACE** | 161 | -.037\*\* | -.024\* | 35.1 | -.020\* | **--** |
| **2 ACE** | 112 | -.003 | -.001 | -- | .002 | **--** |
| **3 ACE** | 91 | .036 | .025 | -- | .021 | **--** |
| **≥4 ACE** | 102 | .031 | .024 | -- | .020 | **--** |
| **Juvenile Arrest** | 656 | **--** | -- | -- | -- | -- |
| **1 ACE** | 156 | -.004 | -.001 | -- | -- | **--** |
| **2 ACE** | 105 | .009 | -.001 | -- | -- | **--** |
| **3 ACE** | 93 | .038 | .023 | -- | -- | **--** |
| **≥4 ACE** | 97 | .130\*\* | .109\* | 16.2 | -- | **--** |

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

*Note:* 0 ACEs = reference group

Supplementary Table 9

*Five and Seven Mediator Results for Participants Living in Neighborhoods Where More than 60% of Households Were Low Income, ACEs 0-18*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Without Mediators | Five Mediators | | Seven Mediators | |
| Outcome | *N* | Marginal effect | Marginal effect | % reduction | Marginal effect | % reduction |
| **High School Graduation** | 976 | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 218 | -.061 | -.100\* | **--** | **--** | **--** |
| **2 ACE** | 141 | -.066 | -.083 | **--** | **--** | **--** |
| **3 ACE** | 141 | -.129\* | -.151\*\* | **--** | **--** | **--** |
| **≥4 ACE** | 172 | -.248\*\*\* | -.260\*\*\* | **--** | **--** | **--** |
| **Occupational Prestige** | 948 | **--** | -- | **--** | **--** | **--** |
| **1 ACE** | 212 | .007 | -.014 | **--** | -.008 | **--** |
| **2 ACE** | 135 | -.052 | -.066 | **--** | -.058 | **--** |
| **3 ACE** | 136 | -.092\* | -.113\*\* | **--** | -.072 | 21.7 |
| **≥4 ACE** | 170 | -.091\* | -.111\*\* | -- | -.048 | 47.3 |
| **Smoking** | 863 | **--** | **--** | **--** | **--** | **--** |
| **1 ACE** | 198 | -.003 | -.002 | -- | -.022 | **--** |
| **2 ACE** | 123 | .097 | .087 | -- | .068 | **--** |
| **3 ACE** | 120 | .140\* | .144\* | -- | .107 | 23.6 |
| **≥4 ACE** | 154 | .175\*\* | .185\*\*\* | -- | .100 | 42.9 |
| **Felony Charge** | 999 | **--** | -- | -- | -- | **--** |
| **1 ACE** | 220 | -.022 | -.017 | -- | -.024 | **--** |
| **2 ACE** | 146 | .030 | .030 | -- | .016 | **--** |
| **3 ACE** | 141 | .047 | .046 | -- | .026 | **--** |
| **≥4 ACE** | 178 | .126\*\* | .120\*\* | -- | .067 | 46.8 |
| **Juvenile Arrest** | 945 | -- | -- | *--* | *--* | *--* |
| **1 ACE** | 212 | .034 | .029 | *--* | *--* | *--* |
| **2 ACE** | 137 | .009 | .002 | *--* | *--* | *--* |
| **3 ACE** | 136 | .040 | .029 | *--* | *--* | *--* |
| **≥4 ACE** | 171 | .131\*\* | .103\* | 21.4 | *--* | *--* |

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

*Note:* 0 ACEs = reference group

Supplementary Table 10.

*Marginal Effects of ACE on Adult Well-Being ACEs, Full Sample 0-18 (Comparison Author 1 et al., 2016)*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Author 1 et al., 2016 | | | | The present study | | | | |
|  |  | Without mediators | With 7 mediators | |  | Without mediators | | With 7 mediators | |
| Outcome | N | Marginal Effect | Marginal effect | Percent reduction | N | Marginal Effect | Marginal effect | | Percent reduction |
| Health Compromising Behaviors | 1,128 | - | - | - | 1132t | - | - | | - |
| 1 ACE | 292 | .046\* | .029 | 37.0 | 258 | .012 | .009 | | - |
| 2 ACE | 179 | .108\*\* | .040 | 63.0 | 169 | .103\* | .090 | | 12.6 |
| 3 ACE | 101 | .051\*\* | -.019 | 100 | 158 | .124\* | .117\* | | 5.6 |
| 4 or more ACE | 115 | .257\*\*\* | .263\*\*\* | 0 | 210 | .183\*\*\* | .129\* | | 29.5 |
| Felony Charge | 1,200 | - | - | - | 1,307 | - | - | | - |
| 1 ACE | 294 | .030 | .001 | - | 289 | -.023 | -.030 | | - |
| 2 ACE | 181 | .081 | .008 | - | 199 | .017 | .008 | | - |
| 3 ACE | 114 | .018 | .208 | - | 181 | .025 | .019 | | - |
| 4 or more ACE | 159 | .168\*\* | .059 | 64.9 | 245 | .133\*\*\* | .070\* | | 47.4 |

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

*Note:* The 7 mediators are as follows: Cognitive advantage, social adjustment, school support, school commitment, and family support, plus two additional mediators for the outcomes assessed at age 22 or higher: juvenile arrest by age 18 and high school graduation by age 21. Percent reduction is calculated as the percentage reduction in the marginal effect of ACEs in Model 1explained by the inclusion of the mediators from Model 2 or Model 3. Only positive value are reported. Negative values were assigned zero or no mediational contribution.

tAnalyses in the present study examined smoking alone as an outcome, whereas in Giovanelli et al., 2016, the outcome was defined as “health compromising behaviors,” a dichotomized index of engagement in alcohol and illegal substance use in addition to smoking.