**Supplemental Tables**

**Supplemental Table 1.** Path coefficients for the cascading model with adult work competence as the outcome

|  |  |  |  |
| --- | --- | --- | --- |
| Dependent Variable | Predictor Variable | β | *B SE z*-value *P*-value |
| W1 Parenting  Group  Group x W1 risk  W1 Risk | W2 Parenting | 0.873  0.160  -0.280  -0.164 | 0.832 0.074 11.289 0.000  0.193 0.050 3.835 0.000  -0.300 0.086 -3.488 0.000  -0.092 0.038 -2.420 0.015 |
| Group  W1 Internalizing  W1 Risk  W2 Parenting | W34 Internalizing | -0.054  0.503  0.156  -0.146 | -0.068 0.064 -1.073 0.283  0.294 0.040 7.301 0.000  0.091 0.044 2.092 0.036  -0.153 0.064 -2.392 0.017 |
| Group  W1 Risk  W2 Parenting | W34 Externalizing | -0.042  0.524  -0.219 | -0.060 0.069 -0.877 0.380  0.350 0.039 8.885 0.000  -0.261 0.069 -3.755 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Internalizing | 0.070  0.374  -0.026  0.344  -0.003  -0.276 | 0.081 0.105 0.766 0.444  0.490 0.113 4.349 0.000  -0.043 0.105 -0.412 0.680  0.264 0.095 2.783 0.005  -0.004 0.091 -0.043 0.965  -0.247 0.093 -2.665 0.008 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting | W5 Externalizing | 0.310  0.032  0.003  0.224  -0.013 | 1.141 0.321 3.553 0.000  0.134 0.333 0.403 0.687  0.017 0.327 0.051 0.959  0.550 0.214 2.569 0.010  -0.056 0.285 -0.196 0.844 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Substance Use | 0.262  0.091  -0.052  0.235  0.026  -0.271 | 0.657 0.256 2.572 0.010  0.261 0.261 1.000 0.317  -0.185 0.260 -0.714 0.475  0.393 0.247 1.594 0.111  0.076 0.202 0.378 0.706  -0.529 0.247 -2.144 0.032 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Peer Competence | W5 Peer Competence | -0.026  -0.290  -0.062  -0.142  -0.143  0.282 | -0.053 0.185 -0.288 0.773  -0.519 0.213 -2.438 0.015  -0.159 0.172 -0.920 0.357  -0.169 0.195 -0.870 0.384  -0.305 0.171 -1.785 0.074  0.338 0.092 3.690 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Adaptive Coping  Group x W1 risk | W5 Adaptive Coping | -0.101  -0.029  -0.005  -0.419  0.001  0.114  0.306 | -0.168 0.128 -1.311 0.190  -0.042 0.140 -0.299 0.765  -0.010 0.137 -0.075 0.940  -0.408 0.118 -3.456 0.001  0.002 0.129 0.012 0.990  0.126 0.073 1.727 0.084  0.347 0.134 2.595 0.009 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Academic Competence | W5 GPA | 0.122  -0.307  0.146  -0.306  0.095  0.128 | 0.143 0.107 1.336 0.181  -0.315 0.102 -3.088 0.002  0.214 0.098 2.191 0.028  -0.210 0.102 -2.062 0.039  0.116 0.092 1.264 0.206  0.088 0.044 1.981 0.048 |
| Group  W1 Risk  W1 Internalizing  W1 Self-Esteem  W2 Parenting  W5 Adaptive Coping  W5 GPA  W5 Peer Competence  W5 Internalizing Symptoms  W5 Externalizing Symptoms  W5 Substance Use  Group x W1 risk | W6 Work Competence | 0.112  -0.337  0.094  -0.082  0.187  0.157  0.070  -0.072  -0.026  -0.181  0.031  0.316 | 0.332 0.220 1.512 0.130  -0.466 0.257 -1.813 0.070  0.131 0.130 1.008 0.313  -0.233 0.216 -1.077 0.281  0.460 0.192 2.391 0.017  0.224 0.100 2.228 0.026  0.141 0.163 0.868 0.385  -0.083 0.075 -1.114 0.265  -0.047 0.147 -0.320 0.749  -0.102 0.051 -1.979 0.048  0.025 0.066 0.381 0.703  0.510 0.258 1.979 0.048 |

Note: W1 – Pretest; W2 – Posttest; W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

1. Correlation of variables at pretest

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B SE z*-value *P*-value |
| W1 Internalizing | Group | 0.065 | 0.030 0.028 1.083 0.279 |
| W1 Self-Esteem | Group  W1 Internalizing | -0.040  -0.343 | -0.009 0.015 -0.616 0.538  -0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | Group  W1 Internalizing  W1 Self-Esteem | -0.070  -0.445  0.450 | -0.033 0.028 -1.157 0.247  -0.443 0.088 -5.034 0.000  0.219 0.040 5.485 0.000 |
| W1 Academic Competence | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence | -0.063  -0.282  0.349  0.441 | -0.029 0.030 -0.983 0.326  -0.281 0.068 -4.106 0.000  0.170 0.033 5.215 0.000  0.439 0.064 6.861 0.000 |
| W1 Adaptive Coping | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence | 0.015  -0.214  0.268  0.192  0.197 | 0.006 0.027 0.231 0.817  -0.186 0.062 -2.994 0.003  0.114 0.025 4.546 0.000  0.167 0.052 3.200 0.001  0.172 0.059 2.918 0.004 |
| W1 Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping | 0.103  0.582  -0.189  -0.300  -0.374  -0.142 | 0.048 0.028 1.682 0.093  0.579 0.072 8.091 0.000  -0.092 0.031 -2.980 0.003  -0.298 0.064 -4.684 0.000  -0.373 0.079 -4.725 0.000  -0.123 0.065 -1.891 0.059 |
| Group x W1Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk | 0.038  0.506  -0.184  -0.293  -0.360  -0.060  0.860 | 0.015 0.017 0.864 0.387  0.432 0.065 6.654 0.000  -0.077 0.027 -2.856 0.004  -0.250 0.057 -4.362 0.000  -0.308 0.073 -4.219 0.000  -0.045 0.053 -0.840 0.401  0.734 0.087 8.459 0.000 |
| W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk | -0.073  -0.440  0.283  0.177  0.272  0.187  -0.453  -0.423 | -0.020 0.016 -1.249 0.212  -0.258 0.046 -5.590 0.000  0.081 0.021 3.922 0.000  0.104 0.041 2.511 0.012  0.160 0.034 4.665 0.000  0.096 0.035 2.737 0.006  -0.266 0.040 -6.616 0.000  -0.213 0.037 -5.781 0.000 |
| Group x W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk  W1 Parenting | -0.026  -0.401  0.236  0.151  0.223  0.133  -0.408  -0.473  0.891 | -0.006 0.011 -0.585 0.558  -0.209 0.044 -4.793 0.000  0.060 0.018 3.255 0.001  0.079 0.038 2.053 0.040  0.116 0.030 3.819 0.000  0.061 0.032 1.925 0.054  -0.213 0.037 -5.782 0.000  -0.212 0.037 -5.795 0.000  0.274 0.031 8.908 0.000 |

Note: W1 – Pretest.

1. Correlation of residual covariances between variables of short-term follow-up and between variables of 6-year follow-up

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B SE z*-value *P*-value |
| W34 Externalizing | W34 Internalizing | 0.426 | 0.093 0.017 5.398 0.000 |
| W5 Internalizing | W5 Externalizing  W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.400  0.182  -0.106  -0.134  -0.151 | 0.558 0.104 5.376 0.000  0.188 0.073 2.559 0.011  -0.064 0.043 -1.503 0.133  -0.053 0.029 -1.845 0.065  -0.107 0.065 -1.639 0.101 |
| W5 Externalizing | W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.325  -0.197  -0.294  -0.208 | -1.078 0.285 3.777 0.000  -0.382 0.142 -2.685 0.007  -0.372 0.099 -3.762 0.000  -0.473 0.211 -2.244 0.025 |
| W5 Substance Use | W5 Adaptive Coping  W5 GPA  W5 Peer Competence | -0.078  -0.185  -0.114 | -0.112 0.109 -1.028 0.304  -0.174 0.075 -2.304 0.021  -0.191 0.150 -1.276 0.202 |
| W5 Adaptive Coping | W5 GPA  W5 Peer Competence | 0.146  0.326 | 0.080 0.038 2.089 0.037  0.320 0.080 3.997 0.000 |
| W5 GPA | W5 Peer Competence | 0.158 | 0.101 0.054 1.888 0.059 |

Note: W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

**Supplemental Table 2.** Path coefficients for the cascading model with adult academic competence as the outcome

|  |  |  |  |
| --- | --- | --- | --- |
| Dependent Variable | Predictor Variable | β | *B SE* Z-value *P*-value |
| W1 Parenting  Group  Group x W1 risk  W1 Risk | W2 Parenting | 0.873  0.161  -0.279  -0.164 | 0.832 0.074 11.289 0.000  0.194 0.050 3.856 0.000  -0.299 0.086 -3.477 0.001  -0.092 0.038 -2.422 0.015 |
| Group  W1 Internalizing  W1 Risk  W2 Parenting | W34 Internalizing | -0.054  0.503  0.156  -0.146 | -0.068 0.064 -1.071 0.284  0.091 0.044 2.093 0.036  0.294 0.040 7.298 0.000  -0.153 0.064 -2.392 0.017 |
| Group  W1 Risk  W2 Parenting | W34 Externalizing | -0.042  0.524  -0.220 | -0.060 0.069 -0.873 0.383  0.350 0.039 8.884 0.000  -0.262 0.069 -3.768 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Internalizing | 0.072  0.373  -0.026  0.342  -0.002  -0.275 | 0.083 0.105 0.791 0.429  0.489 0.113 4.340 0.000  -0.044 0.105 -0.414 0.679  0.262 0.095 2.763 0.006  -0.002 0.091 -0.023 0.982  -0.246 0.093 -2.652 0.008 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting | W5 Externalizing | 0.312  0.030  0.004  0.223  -0.013 | 1.150 0.322 3.576 0.000  0.126 0.333 0.379 0.705  0.020 0.327 0.061 0.952  0.548 0.214 2.555 0.011  -0.055 0.285 -0.193 0.847 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Substance Use | 0.260  0.089  -0.052  0.238  0.023  -0.272 | 0.650 0.256 2.535 0.011  0.256 0.261 0.980 0.327  -0.188 0.260 -0.721 0.471  0.399 0.247 1.614 0.107  0.069 0.203 0.340 0.734  -0.531 0.247 -2.150 0.032 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Peer Competence | W5 Peer Competence | -0.028  -0.286  -0.062  -0.140  -0.142  0.279 | -0.058 0.185 -0.311 0.756  -0.511 0.213 -2.402 0.016  -0.160 0.172 -0.928 0.353  -0.168 0.194 -0.862 0.389  -0.301 0.172 -1.754 0.079  0.334 0.091 3.658 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Adaptive Coping  Group x W1 risk | W5 Adaptive Coping | -0.104  -0.027  -0.003  -0.426  0.005  0.116  0.310 | -0.174 0.128 -1.353 0.176  -0.039 0.141 -0.274 0.784  -0.007 0.137 -0.052 0.958  -0.415 0.119 -3.498 0.000  -0.008 0.129 -0.065 0.948  0.130 0.073 1.774 0.076  0.352 0.134 2.624 0.009 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Academic Competence | W5 GPA | 0.124  -0.306  0.152  -0.306  0.091  0.143 | 0.147 0.108 1.359 0.174  -0.316 0.101 -3.116 0.002  0.223 0.097 2.300 0.021  -0.210 0.101 -2.075 0.038  0.112 0.091 1.225 0.221  0.098 0.044 2.237 0.025 |
| Group  W1 Risk  W1 Internalizing  W1 Self-Esteem  W2 Parenting  W5 Adaptive Coping  W5 GPA  W5 Peer Competence  W5 Internalizing Symptoms  W5 Externalizing Symptoms  W5 Substance Use  Group x W1 risk | Work Competence | -0.001  -0.291  0.229  -0.091  0.011  -0.012  0.437  -0.071  -0.107  0.011  0.114  -0.097 | -0.006 0.254 -0.022 0.982  -0.561 0.294 -1.911 0.056  0.442 0.137 3.213 0.001  -0.361 0.254 -1.418 0.156  0.038 0.227 0.166 0.868  -0.024 0.142 -0.168 0.867  1.225 0.208 5.901 0.000  -0.115 0.117 -0.983 0.326  -0.270 0.188 -1.433 0.152  0.009 0.066 0.134 0.893  0.132 0.087 1.516 0.129  -0.218 0.315 -0.693 0.489 |

Note: W1 – Pretest; W2 – Posttest; W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

1. Correlation of variables at pretest

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B SE* Z-value *P*-value |
| W1 Internalizing | Group | 0.065 | 0.030 0.028 1.083 0.279 |
| W1 Self-Esteem | Group  W1 Internalizing | -0.040  -0.343 | -0.009 0.015 -0.616 0.538  -0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | Group  W1 Internalizing  W1 Self-Esteem | -0.070  -0.445  0.450 | -0.033 0.028 -1.157 0.247  -0.443 0.088 -5.034 0.000  0.219 0.040 5.485 0.000 |
| W1 Academic Competence | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence | -0.063  -0.282  0.349  0.441 | -0.029 0.030 -0.983 0.326  -0.281 0.068 -4.106 0.000  0.170 0.033 5.215 0.000  0.439 0.064 6.861 0.000 |
| W1 Adaptive Coping | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence | 0.015  -0.214  0.268  0.192  0.197 | 0.006 0.027 0.231 0.817  -0.186 0.062 -2.994 0.003  0.114 0.025 4.546 0.000  0.167 0.052 3.200 0.001  0.172 0.059 2.918 0.004 |
| W1 Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping | 0.103  0.582  -0.189  -0.300  -0.374  -0.142 | 0.048 0.028 1.682 0.093  0.579 0.072 8.091 0.000  -0.092 0.031 -2.980 0.003  -0.298 0.064 -4.684 0.000  -0.373 0.079 -4.725 0.000  -0.123 0.065 -1.891 0.059 |
| Group x W1Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk | 0.038  0.506  -0.184  -0.293  -0.360  -0.060  0.860 | 0.015 0.017 0.864 0.387  0.432 0.065 6.654 0.000  -0.077 0.027 -2.856 0.004  -0.250 0.057 -4.362 0.000  -0.308 0.073 -4.219 0.000  -0.045 0.053 -0.840 0.401  0.734 0.087 8.459 0.000 |
| W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk | -0.073  -0.440  0.283  0.177  0.272  0.187  -0.453  -0.423 | -0.020 0.016 -1.249 0.212  -0.258 0.046 -5.590 0.000  0.081 0.021 3.922 0.000  0.104 0.041 2.511 0.012  0.160 0.034 4.665 0.000  0.096 0.035 2.737 0.006  -0.266 0.040 -6.616 0.000  -0.213 0.037 -5.781 0.000 |
| Group x W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk  W1 Parenting | -0.026  -0.401  0.236  0.151  0.223  0.133  -0.408  -0.473  0.891 | -0.006 0.011 -0.585 0.558  -0.209 0.044 -4.793 0.000  0.060 0.018 3.255 0.001  0.079 0.038 2.053 0.040  0.116 0.030 3.819 0.000  0.061 0.032 1.925 0.054  -0.213 0.037 -5.782 0.000  -0.212 0.037 -5.795 0.000   * 1. 0.031 8.908 0.000 |

Note: W1 – Pretest.

1. Correlation of residual covariances between variables of short-term follow-up and between variables of 6-year follow-up

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B SE z*-value *P*-value |
| W34 Externalizing | W34 Internalizing | 0.426 | 0.093 0.017 5.398 0.000 |
| W5 Internalizing | W5 Externalizing  W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.401  0.179  -0.108  -0.151  -0.152 | 0.560 0.104 5.383 0.000  0.185 0.074 2.514 0.012  -0.065 0.042 -1.544 0.123  -0.060 0.029 -2.083 0.037  -0.108 0.066 -1.643 0.100 |
| W5 Externalizing | W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.324  -0.195  -0.304  -0.213 | 1.074 0.284 3.780 0.000  -0.379 0.141 -2.689 0.007  -0.388 0.102 -3.797 0.000  -0.484 0.211 -2.293 0.022 |
| W5 Substance Use | W5 Adaptive Coping  W5 GPA  W5 Peer Competence | -0.077  -0.180  -0.114 | -0.111 0.109 -1.018 0.309  -0.170 0.076 -2.251 0.024  -0.187 0.150 -1.251 0.211 |
| W5 Adaptive Coping | W5 GPA  W5 Peer Competence | 0.146  0.325 | 0.081 0.039 2.082 0.037  0.319 0.080 3.988 0.000 |
| W5 GPA | W5 Peer Competence | 0.159 | 0.103 0.055 1.883 0.060 |

Note: W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

**Supplemental Table 3.** Path coefficients for the cascading model with adult peer competence as the outcome

|  |  |  |  |
| --- | --- | --- | --- |
| Dependent Variable | Predictor Variable | β | *B SE z*-value  *P*-value |
| W1 Parenting  Group  Group x W1 risk  W1 Risk | W2 Parenting | 0.873  0.161  -0.279  -0.164 | 0.826 0.086 9.576 0.000  0.183 0.061 3.022 0.003  -0.269 0.109 -2.458 0.014  -0.103 0.042 -2.450 0.014 |
| Group  W1 Internalizing  W1 Risk  W2 Parenting | W34 Internalizing | -0.054  0.503  0.156  -0.146 | -0.126 0.077 -1.635 0.102  0.287 0.042 6.866 0.000  0.081 0.053 1.539 0.124  -0.197 0.071 -2.759 0.006 |
| Group  W1 Risk  W2 Parenting | W34 Externalizing | -0.042  0.524  -0.220 | -0.048 0.081 -0.589 0.556  0.331 0.046 7.159 0.000  -0.310 0.081 -3.802 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Internalizing | 0.071  0.373  -0.025  0.344  -0.002  -0.274 | 0.092 0.130 0.706 0.480  0.530 0.133 3.971 0.000  -0.027 0.123 -0.218 0.827  0.337 0.109 3.099 0.002  0.004 0.103 0.040 0.968  -0.331 0.097 -3.401 0.001 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting | W5 Externalizing | 0.310  0.030  0.004  0.224  -0.013 | 1.094 0.344 3.184 0.001  0.277 0.357 0.776 0.438  0.204 0.345 0.592 0.554  0.399 0.234 1.704 0.088  -0.036 0.316 -0.114 0.909 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Substance Use | 0.262  0.090  -0.047  0.242  0.022  -0.274 | 0.659 0.255 2.582 0.010  0.259 0.261 0.992 0.321  -0.170 0.262 -0.651 0.515  0.407 0.247 1.649 0.099  0.065 0.203 0.323 0.747  -0.537 0.247 -2.172 0.030 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Peer Competence | W5 Peer Competence | -0.030  -0.288  -0.061  -0.133  -0.143  0.280 | -0.061 0.184 -0.329 0.742  -0.515 0.213 -2.421 0.015  -0.157 0.173 -0.912 0.362  -0.159 0.194 -0.821 0.412  -0.305 0.169 -1.805 0.071  0.335 0.091 3.682 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Adaptive Coping  Group x W1 risk | W5 Adaptive Coping | -0.098  -0.033  -0.001  -0.406  0.011  0.118  0.299 | -0.162 0.129 -1.262 0.207  -0.047 0.140 -0.338 0.736  0.003 0.137 0.020 0.984  -0.394 0.120 -3.287 0.001  -0.019 0.129 -0.146 0.884  0.131 0.073 1.795 0.073  0.339 0.135 2.503 0.012 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Academic Competence | W5 GPA | 0.124  -0.306  0.150  -0.306  0.088  0.132 | 0.146 0.108 1.354 0.176  -0.314 0.102 -3.084 0.002  0.220 0.098 2.246 0.025  -0.209 0.102 -2.060 0.039  0.107 0.091 1.174 0.240  0.090 0.044 2.033 0.042 |
| Group  W1 Risk  W1 Internalizing  W1 Self-Esteem  W2 Parenting  W5 Adaptive Coping  W5 GPA  W5 Peer Competence  W5 Internalizing Symptoms  W5 Externalizing Symptoms  W5 Substance Use  Group x W1 risk | Work Competence | 0.083  -0.001  0.056  -0.024  0.078  0.275  0.097  0.005  0.085  -0.042  0.145  -0.157 | 0.142 0.123 1.160 0.246  -0.001 0.170 -0.007 0.995  0.045 0.078 0.575 0.565  -0.039 0.122 -0.322 0.748  0.110 0.119 0.928 0.353  0.225 0.062 3.630 0.000  0.113 0.108 1.043 0.297  0.003 0.060 0.056 0.956  0.088 0.087 1.008 0.313  -0.014 0.027 -0.508 0.612  0.069 0.039 1.775 0.076  -0.145 0.180 -0.806 0.420 |

Note: W1 – Pretest; W2 – Posttest; W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

1. Correlation of variables at pretest

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | B SE Z-value P-value |
| W1 Internalizing | Group | 0.065 | 0.030 0.028 1.083 0.279 |
| W1 Self-Esteem | Group  W1 Internalizing | -0.040  -0.343 | -0.009 0.015 -0.616 0.538  -0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | Group  W1 Internalizing  W1 Self-Esteem | -0.070  -0.445  0.450 | -0.033 0.028 -1.157 0.247  -0.443 0.088 -5.034 0.000  0.219 0.040 5.485 0.000 |
| W1 Academic Competence | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence | -0.063  -0.282  0.349  0.441 | -0.029 0.030 -0.983 0.326  -0.281 0.068 -4.106 0.000  0.170 0.033 5.215 0.000  0.439 0.064 6.861 0.000 |
| W1 Adaptive Coping | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence | 0.015  -0.214  0.268  0.192  0.197 | 0.006 0.027 0.231 0.817  -0.186 0.062 -2.994 0.003  0.114 0.025 4.546 0.000  0.167 0.052 3.200 0.001  0.172 0.059 2.918 0.004 |
| W1 Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping | 0.103  0.582  -0.189  -0.300  -0.374  -0.142 | 0.048 0.028 1.682 0.093  0.579 0.072 8.091 0.000  -0.092 0.031 -2.980 0.003  -0.298 0.064 -4.684 0.000  -0.373 0.079 -4.725 0.000  -0.123 0.065 -1.891 0.059 |
| Group x W1Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk | 0.038  0.506  -0.184  -0.293  -0.360  -0.060  0.860 | 0.015 0.017 0.864 0.387  0.432 0.065 6.654 0.000  -0.077 0.027 -2.856 0.004  -0.250 0.057 -4.362 0.000  -0.308 0.073 -4.219 0.000  -0.045 0.053 -0.840 0.401  0.734 0.087 8.459 0.000 |
| W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk | -0.073  -0.440  0.283  0.177  0.272  0.187  -0.453  -0.423 | -0.020 0.016 -1.249 0.212  -0.258 0.046 -5.590 0.000  0.081 0.021 3.922 0.000  0.104 0.041 2.511 0.012  0.160 0.034 4.665 0.000  0.096 0.035 2.737 0.006  -0.266 0.040 -6.616 0.000  -0.213 0.037 -5.781 0.000 |
| Group x W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk  W1 Parenting | -0.026  -0.401  0.236  0.151  0.223  0.133  -0.408  -0.473  0.891 | -0.006 0.011 -0.585 0.558  -0.209 0.044 -4.793 0.000  0.060 0.018 3.255 0.001  0.079 0.038 2.053 0.040  0.116 0.030 3.819 0.000  0.061 0.032 1.925 0.054  -0.213 0.037 -5.782 0.000  -0.212 0.037 -5.795 0.000   * 1. 0.031 8.908 0.000 |

Note: W1 – Pretest.

1. Correlation of residual covariances between variables of short-term follow-up and between variables of 6-year follow-up

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B* *SE z*-value *P*-value |
| W34 Externalizing | W34 Internalizing | 0.426 | 0.093 0.017 5.398 0.000 |
| W5 Internalizing | W5 Externalizing  W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.401  0.177  -0.113  -0.138  -0.157 | 0.560 0.104 5.385 0.000  0.184 0.073 2.501 0.012  -0.068 0.043 -1.606 0.108  -0.055 0.029 -1.905 0.057  -0.111 0.065 -1.709 0.088 |
| W5 Externalizing | W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.325  -0.193  -0.294  -0.213 | 1.077 0.286 3.768 0.000  -0.375 0.140 -2.678 0.007  -0.373 0.098 -3.789 0.000  -0.484 0.212 -2.282 0.022 |
| W5 Substance Use | W5 Adaptive Coping  W5 GPA  W5 Peer Competence | -0.074  -0.183  -0.113 | -0.106 0.109 -0.976 0.329  -0.172 0.075 -2.295 0.022  -0.191 0.150 -1.277 0.202 |
| W5 Adaptive Coping | W5 GPA  W5 Peer Competence | 0.149  0.323 | 0.082 0.038 2.138 0.033  0.318 0.080 3.947 0.000 |
| W5 GPA | W5 Peer Competence | 0.156 | 0.100 0.054 1.859 0.063 |

Note: W34 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

**Supplemental Table 4.** Path coefficients for the cascading model with adult romantic competence as the outcome

|  |  |  |  |
| --- | --- | --- | --- |
| Dependent Variable | Predictor Variable | β | *B* *SE* *z*-value *P*-value |
| W1 Parenting  Group  Group x W1 risk  W1 Risk | W2 Parenting | 0.873  0.161  -0.279  -0.164 | 0.832 0.076 10.994 0.000  0.194 0.051 3.821 0.000  -0.299 0.086 -3.491 0.000  -0.092 0.038 -2.430 0.015 |
| Group  W1 Internalizing  W1 Risk  W2 Parenting | W34 Internalizing | -0.054  0.503  0.156  -0.146 | -0.068 0.066 -1.036 0.300  0.294 0.042 7.070 0.000  0.091 0.044 2.058 0.040  -0.153 0.067 -2.274 0.023 |
| Group  W1 Risk  W2 Parenting | W34 Externalizing | -0.042  0.524  -0.220 | -0.060 0.070 -0.850 0.395  0.350 0.040 8.710 0.000  -0.262 0.071 -3.681 0.000 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Internalizing | 0.071  0.373  -0.025  0.344  -0.002  -0.274 | 0.082 0.105 0.774 0.439  0.489 0.116 4.206 0.000  -0.042 0.109 -0.384 0.701  0.264 0.100 2.645 0.008  -0.002 0.096 -0.026 0.980  -0.245 0.097 -2.527 0.012 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting | W5 Externalizing | 0.311  0.030  0.004  0.223  -0.014 | 1.144 0.328 3.489 0.000  0.125 0.350 0.356 0.722  0.022 0.331 0.065 0.948  0.549 0.211 2.599 0.009  -0.061 0.288 -0.212 0.832 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  Group x W1 risk | W5 Substance Use | 0.262  0.091  -0.051  0.235  0.025  -0.271 | 0.657 0.259 2.541 0.011  0.259 0.284 0.912 0.362  -0.183 0.272 -0.672 0.502  0.394 0.258 1.528 0.126  0.076 0.204 0.372 0.710  -0.530 0.260 -2.038 0.042 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Peer Competence | W5 Peer Competence | -0.027  -0.290  -0.064  -0.133  -0.140  0.279 | -0.056 0.193 -0.289 0.773  -0.520 0.221 -2.346 0.019  -0.165 0.176 -0.934 0.350  -0.159 0.200 -0.798 0.425  -0.298 0.172 -1.732 0.083  0.333 0.098 3.411 0.001 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Adaptive Coping  Group x W1 risk | W5 Adaptive Coping | -0.101  -0.029  -0.004  -0.418  0.004  0.117  0.301 | -0.169 0.134 -1.261 0.207  -0.043 0.144 -0.299 0.765  -0.008 0.143 -0.053 0.957  -0.406 0.125 -3.242 0.001  -0.007 0.132 -0.055 0.956  0.130 0.074 1.749 0.080  0.342 0.147 2.324 0.020 |
| W34 Externalizing  W34 Internalizing  Group  W1 Risk  W2 Parenting  W1 Academic Competence  Group x W1 risk | W5 GPA | 0.124  -0.305  0.148  -0.308  0.088  0.130  0.177 | 0.145 0.108 1.342 0.180  -0.313 0.107 -2.910 0.004  0.218 0.104 2.096 0.036  -0.211 0.110 -1.920 0.055  0.107 0.095 1.124 0.261  0.089 0.047 1.890 0.059  0.141 0.112 1.256 0.209 |
| Group  W1 Risk  W1 Internalizing  W1 Self-Esteem  W2 Parenting  W5 Adaptive Coping  W5 GPA  W5 Peer Competence  W5 Internalizing Symptoms  W5 Externalizing Symptoms  W5 Substance Use  Group x W1 risk | Work Competence | -0.101  -0.251  0.097  0.014  0.065  0.117  0.094  0.068  0.122  -0.074  0.035  0.193 | -0.200 0.158 -1.267 0.205  -0.231 0.174 -1.326 0.185  0.089 0.104 0.851 0.395  0.027 0.170 0.156 0.876  0.106 0.158 0.673 0.501  0.110 0.083 1.326 0.185  0.127 0.139 0.910 0.363  0.053 0.079 0.662 0.508  0.146 0.118 1.242 0.214  -0.028 0.041 -0.680 0.497  0.019 0.046 0.411 0.681  0.207 0.191 1.087 0.277 |

Note: W1 – Pretest; W2 – Posttest; W3 – Short-term Follow-up; W5 – 6-year Follow-up; W6 – 15-year Follow-up.

1. Correlation of variables at pretest

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | *B* *SE* *z*-value  *P*-value |
| W1 Internalizing | Group | 0.065 | 0.030 0.026 1.140 0.254 |
| W1 Self-Esteem | Group  W1 Internalizing | -0.040  -0.343 | -0.009 0.014 -0.630 0.529  -0.167 0.032 -5.151 0.000 |
| W1 Peer Competence | Group  W1 Internalizing  W1 Self-Esteem | -0.070  -0.445  0.450 | -0.033 0.029 -1.135 0.256  -0.443 0.090 -4.939 0.000  0.219 0.040 5.494 0.000 |
| W1 Academic Competence | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence | -0.063  -0.282  0.349  0.441 | -0.029 0.030 -0.976 0.329  -0.281 0.069 -4.070 0.000  0.170 0.033 5.180 0.000  0.439 0.064 6.903 0.000 |
| W1 Adaptive Coping | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence | 0.015  -0.214  0.268  0.192  0.197 | 0.006 0.027 0.228 0.819  -0.186 0.060 -3.097 0.002  0.114 0.025 4.531 0.000  0.167 0.052 3.190 0.001  0.172 0.058 2.952 0.003 |
| W1 Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping | 0.103  0.582  -0.189  -0.300  -0.374  -0.142 | 0.048 0.029 1.656 0.098  0.579 0.072 8.053 0.000  -0.092 0.030 -3.095 0.002  -0.298 0.063 -4.735 0.000  -0.373 0.079 -4.691 0.000  -0.123 0.064 -1.933 0.053 |
| Group x W1Risk | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk | 0.038  0.506  -0.184  -0.293  -0.360  -0.060  0.860 | 0.015 0.017 0.865 0.387  0.432 0.065 6.603 0.000  -0.077 0.026 -2.912 0.004  -0.250 0.057 -4.407 0.000  -0.308 0.073 -4.213 0.000  -0.045 0.052 -0.858 0.391  0.734 0.087 8.424 0.000 |
| W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk | -0.073  -0.440  0.283  0.177  0.272  0.187  -0.453  -0.423 | -0.020 0.016 -1.272 0.203  -0.258 0.046 -5.556 0.000  0.081 0.020 4.047 0.000  0.104 0.041 2.510 0.012  0.160 0.035 4.519 0.000  0.096 0.035 2.752 0.006  -0.266 0.042 -6.400 0.000  -0.213 0.038 -5.556 0.000 |
| Group x W1 Parenting | Group  W1 Internalizing  W1 Self-Esteem  W1 Peer Competence  W1 Academic Competence  W1 Adaptive Coping  W1 Risk  Group x W1Risk  W1 Parenting | -0.026  -0.401  0.236  0.151  0.223  0.133  -0.408  -0.473  0.891 | -0.006 0.011 -0.589 0.556  -0.209 0.044 -4.757 0.000  0.060 0.018 3.276 0.001  0.079 0.038 2.054 0.040  0.116 0.031 3.769 0.000  0.061 0.031 1.948 0.051  -0.213 0.038 -5.554 0.000  -0.212 0.038 -5.571 0.000  0.274 0.030 8.993 0.000 |

1. Correlation of residual covariances between variables of short-term follow-up and between variables of 6-year follow-up

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Variable | β | B SE Z-value P-value |
| W34 Externalizing | W34 Internalizing | 0.426 | 0.093 0.017 5.377 0.000 |
| W5 Internalizing | W5 Externalizing  W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.401  0.180  -0.110  -0.133  -0.156 | 0.560 0.104 5.405 0.000  0.187 0.074 2.528 0.011  -0.066 0.043 -1.551 0.121  -0.053 0.028 -1.852 0.064  -0.111 0.063 -1.746 0.081 |
| W5 Externalizing | W5 Substance Use  W5 Adaptive Coping  W5 GPA  W5 Peer Competence | 0.325  -0.192  -0.292  -0.212 | 1.079 0.282 3.828 0.000  -0.372 0.139 -2.668 0.008  -0.369 0.100 -3.712 0.000  -0.480 0.215 -2.230 0.026 |
| W5 Substance Use | W5 Adaptive Coping  W5 GPA  W5 Peer Competence | -0.077  -0.182  -0.111 | -0.110 0.110 -1.003 0.316  -0.171 0.072 -2.363 0.018  -0.186 0.152 -1.225 0.220 |
| W5 Adaptive Coping | W5 GPA  W5 Peer Competence | 0.146  0.325 | 0.080 0.039 2.076 0.038  0.319 0.082 3.873 0.000 |
| W5 GPA | W5 Peer Competence | 0.155 | 0.100 0.054 1.828 0.068 |