**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 |
| GroupW1 InternalizingW1 RiskW2 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 |
| GroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 Adaptive CopingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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  |
| GroupW1 RiskW1 InternalizingW1 Self-EsteemW2 ParentingW5 Adaptive CopingW5 GPAW5 Peer CompetenceW5 Internalizing SymptomsW5 Externalizing SymptomsW5 Substance UseGroup 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 | GroupW1 Internalizing  | -0.040-0.343 | -0.009 0.015 -0.616 0.538-0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | GroupW1 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  | GroupW1 Internalizing W1 Self-EsteemW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup x W1RiskW1 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 UseW5 Adaptive CopingW5 GPAW5 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 UseW5 Adaptive CopingW5 GPAW5 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 CopingW5 GPAW5 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 GPAW5 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 |
| GroupW1 InternalizingW1 RiskW2 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 |
| GroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 Adaptive CopingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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  |
| GroupW1 RiskW1 InternalizingW1 Self-EsteemW2 ParentingW5 Adaptive CopingW5 GPAW5 Peer CompetenceW5 Internalizing SymptomsW5 Externalizing SymptomsW5 Substance UseGroup 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 | GroupW1 Internalizing  | -0.040-0.343 | -0.009 0.015 -0.616 0.538-0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | GroupW1 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  | GroupW1 Internalizing W1 Self-EsteemW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup x W1RiskW1 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 UseW5 Adaptive CopingW5 GPAW5 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 UseW5 Adaptive CopingW5 GPAW5 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 CopingW5 GPAW5 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 GPAW5 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 |
| GroupW1 InternalizingW1 RiskW2 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 |
| GroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 Adaptive CopingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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 |
| GroupW1 RiskW1 InternalizingW1 Self-EsteemW2 ParentingW5 Adaptive CopingW5 GPAW5 Peer CompetenceW5 Internalizing SymptomsW5 Externalizing SymptomsW5 Substance UseGroup 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 | GroupW1 Internalizing  | -0.040-0.343 | -0.009 0.015 -0.616 0.538-0.167 0.034 -4.961 0.000 |
| W1 Peer Competence | GroupW1 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  | GroupW1 Internalizing W1 Self-EsteemW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup x W1RiskW1 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 UseW5 Adaptive CopingW5 GPAW5 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 UseW5 Adaptive CopingW5 GPAW5 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 CopingW5 GPAW5 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 GPAW5 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 |
| GroupW1 InternalizingW1 RiskW2 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 |
| GroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 Adaptive CopingGroup 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 ExternalizingW34 InternalizingGroupW1 RiskW2 ParentingW1 Academic CompetenceGroup 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 |
| GroupW1 RiskW1 InternalizingW1 Self-EsteemW2 ParentingW5 Adaptive CopingW5 GPAW5 Peer CompetenceW5 Internalizing SymptomsW5 Externalizing SymptomsW5 Substance UseGroup 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 | GroupW1 Internalizing  | -0.040-0.343 | -0.009 0.014 -0.630 0.529-0.167 0.032 -5.151 0.000 |
| W1 Peer Competence | GroupW1 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  | GroupW1 Internalizing W1 Self-EsteemW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup 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 | GroupW1 Internalizing W1 Self-EsteemW1 Peer CompetenceW1 Academic CompetenceW1 Adaptive CopingW1 RiskGroup x W1RiskW1 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 UseW5 Adaptive CopingW5 GPAW5 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 UseW5 Adaptive CopingW5 GPAW5 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 CopingW5 GPAW5 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 GPAW5 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 |