Table S1

Measurement Invariance Testing

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model |  | df | CFI | ΔCFI | TLI | RMSEA | ΔRMSEA | SRMR | ΔSRMR |
| Victimization |  |  |  |  |  |  |  |  |  |
| Configural Invariance | 115.16 | 72 | .990 |  | 0.985 | 0.013 |  | 0.027 |  |
| Metric Invariance | 112.75 | 80 | .992 | 0.002 | 0.990 | 0.011 | -0.002 | 0.027 | 0.000 |
| Strong Invariance | 128.13 | 88 | .990 | -0.002 | 0.989 | 0.012 | 0.001 | 0.028 | 0.001 |
| Depressive Symptoms |  |  |  |  |  |  |  |  |  |
| Configural Invariance | 2473.64 | 372 | .925 |  | 0.913 | 0.041 |  | 0.046 |  |
| Metric Invariance | 2506.33 | 390 | .925 | 0.000 | 0.916 | 0.040 | -0.001 | 0.048 | 0.002 |
| Strong Invariance | 2591.88 | 408 | .922 | -0.003 | 0.917 | 0.039 | -0.001 | 0.048 | 0.000 |
| Anxiety |  |  |  |  |  |  |  |  |  |
| Configural Invariance | 1426.39 | 216 | .957 |  | 0.945 | 0.040 |  | 0.044 |  |
| Metric Invariance | 1527.68 | 230 | .954 | -0.003 | 0.945 | 0.040 | 0.000 | 0.047 | 0.003 |
| Strong Invariance | 1803.15 | 244 | .945 | -0.009 | 0.938 | 0.043 | 0.003 | 0.049 | 0.002 |
| Self-Esteem |  |  |  |  |  |  |  |  |  |
| Configural Invariance | 1486.83 | 342 | .970 |  | 0.962 | 0.031 |  | 0.054 |  |
| Metric Invariance | 1561.31 | 360 | .969 | -0.001 | 0.962 | 0.031 | 0.000 | 0.058 | 0.004 |
| Strong Invariance | 1771.76 | 378 | .964 | -0.005 | 0.958 | 0.033 | 0.002 | 0.060 | 0.002 |

Table S2

Multilevel Cross-Lagged Panel Model Results: Unstandardized and Standardized Bayesian Posterior Median Estimates

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Psychological Adjustment | | | | | | | | | | | | | | | | |
|  | Depressive Symptoms | | | | |  | Anxiety | | | | |  | Self-Esteem | | | | |
|  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |
|  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |
| Fixed Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender → Victimization at T2 | 0.02 (0.02) | 0.02 |  | 0.02 (0.02) | 0.02 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |
| Gender → Victimization at T3 | 0.01 (0.02) | 0.02 |  | 0.01 (0.02) | 0.02 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |
| Gender → Psych. adjustment at T2 | **-0.06** (0.01) | -0.07 |  | **-0.06** (0.01) | -0.07 |  | **-0.16** (0.02) | -0.14 |  | **-0.16** (0.02) | -0.14 |  | **0.08** (0.02) | 0.07 |  | **0.08** (0.02) | 0.07 |
| Gender → Psych. adjustment at T3 | **-0.06** (0.01) | -0.07 |  | **-0.06** (0.01) | -0.07 |  | **-0.17** (0.02) | -0.14 |  | **-0.17** (0.02) | -0.14 |  | **0.10** (0.02) | 0.08 |  | **0.10** (0.02) | 0.08 |
| Age at T1 → Victimization at T2 | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |  | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.00 |  | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.01 |
| Age at T1 → Victimization at T3 | 0.03 (0.02) | 0.02 |  | 0.03 (0.02) | 0.02 |  | 0.03 (0.02) | 0.02 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.02 |  | 0.03 (0.02) | 0.02 |
| Age at T1 → Psych. adjustment at T2 | -0.02 (0.02) | -0.02 |  | -0.02 (0.02) | -0.02 |  | **-0.05** (0.02) | -0.03 |  | **-0.05** (0.02) | -0.04 |  | 0.04 (0.02) | 0.02 |  | 0.04 (0.02) | 0.02 |
| Age at T1 → Psych. adjustment at T3 | 0.01 (0.01) | 0.01 |  | 0.01 (0.01) | 0.01 |  | 0.00 (0.02) | 0.00 |  | 0.00 (0.00) | 0.00 |  | -0.01 (0.02) | 0.00 |  | -0.01 (0.02) | 0.00 |
| Autoregressive Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → Victimization at T2 | **0.48** (0.02) | 0.44 |  | **0.50** (0.02) | 0.46 |  | **0.48** (0.02) | 0.44 |  | **0.49** (0.02) | 0.44 |  | **0.53** (0.02) | 0.48 |  | **0.54** (0.02) | 0.49 |
| Victimization at T1 → Victimization at T3 | **0.25** (0.02) | 0.22 |  | **0.25** (0.02) | 0.23 |  | **0.26** (0.02) | 0.24 |  | **0.27** (0.02) | 0.24 |  | **0.26** (0.02) | 0.23 |  | **0.26** (0.02) | 0.24 |
| Victimization at T2 → Victimization at T3 | **0.38** (0.02) | 0.15 |  | **0.37** (0.02) | 0.38 |  | **0.42** (0.02) | 0.42 |  | **0.42** (0.02) | 0.42 |  | **0.42** (0.02) | 0.42 |  | **0.41** (0.02) | 0.41 |
| Psychological adjustment at T1 → Psych. adjustment at T2 | **0.77** (0.02) | 0.68 |  | **0.77** (0.02) | 0.67 |  | **0.65** (0.02) | 0.60 |  | **0.64** (0.02) | 0.59 |  | **0.74** (0.02) | 0.69 |  | **0.74** (0.02) | 0.68 |
| Psych. adjustment at T1 → Psych. adjustment at T3 | **0.21** (0.02) | 0.18 |  | **0.21** (0.02) | 0.18 |  | **0.29** (0.02) | 0.26 |  | **0.29** (0.02) | 0.26 |  | **0.26** (0.02) | 0.22 |  | **0.26** (0.02) | 0.22 |
| Psych. adjustment at T2 → Psych. adjustment at T3 | **0.61** (0.02) | 0.61 |  | **0.61** (0.02) | 0.61 |  | **0.48** (0.02) | 0.47 |  | **0.48** (0.02) | 0.47 |  | **0.61** (0.02) | 0.55 |  | **0.61** (0.02) | 0.56 |
| Cross-Lagged Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → Psych. adjustment at T2 | **0.05** (0.02) | 0.05 |  | **0.07** (0.02) | 0.07 |  | **0.07** (0.03) | 0.16 |  | **0.10** (0.03) | 0.07 |  | **-0.08** (0.03) | -0.06 |  | **-0.11** (0.03) | -0.08 |
| Victimization at T2 → Psych. adjustment at T3 | **0.04** (0.01) | 0.05 |  | **0.04** (0.01) | 0.05 |  | **0.04** (0.02) | 0.04 |  | **0.04** (0.02) | 0.04 |  | **-0.11** (0.02) | -0.08 |  | **-0.11** (0.02) | -0.08 |
| Psych. adjustment at T1 → Victimization at T2 | **0.24** (0.04) | 0.16 |  | **0.25** (0.04) | 0.15 |  | **0.15** (0.02) | 0.05 |  | **0.15** (0.02) | 0.16 |  | **-0.10** (0.02) | -0.10 |  | **-0.11** (0.03) | -0.11 |
| Psych. adjustment at T2 → Victimization at T3 | **0.18** (0.03) | 0.15 |  | **0.18** (0.03) | 0.15 |  | **0.05** (0.02) | 0.06 |  | **0.05** (0.02) | 0.06 |  | **-0.06** (0.02) | -0.07 |  | **-0.06** (0.02) | -0.07 |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intercept Victimization at T2 | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |
| Intercept Victimization at T3 | **0.23** (0.01) |  |  | **0.22** (0.01) |  |  | **0.23** (0.01) |  |  | **0.22** (0.01) |  |  | **0.23** (0.01) |  |  | **0.22** (0.01) |  |
| Intercept Psych. adjustment at T2 | **0.36** (0.01) |  |  | **0.36** (0.01) |  |  | **0.91** (0.01) |  |  | **0.90** (0.01) |  |  | **1.93** (0.01) |  |  | **1.94** (0.01) |  |
| Intercept Psych. adjustment at T3 | **0.34** (0.01) |  |  | **0.34** (0.01) |  |  | **0.73** (0.01) |  |  | **0.73** (0.01) |  |  | **2.00** (0.02) |  |  | **2.01** (0.02) |  |
| Classroom-level victimization at T1 → Victimization at T2 |  |  |  | **0.59** (0.06) | 0.78 |  |  |  |  | **0.59** (0.06) | 0.77 |  |  |  |  | **0.61** (0.06) | 0.79 |
| Classroom-level victimization at T1 → Victimization at T3 |  |  |  | **0.57** (0.06) | 0.80 |  |  |  |  | **0.56** (0.06) | 0.83 |  |  |  |  | **0.56** (0.06) | 0.80 |
| Classroom-level victimization at T1 → Psych. adjustment at T2 |  |  |  | **0.21** (0.07) | 0.25 |  |  |  |  | **0.37** (0.08) | 0.38 |  |  |  |  | **-0.30** (0.09) | -0.27 |
| Classroom-level victimization at T1 → Psych. adjustment at T3 |  |  |  | **0.22** (0.07) | 0.28 |  |  |  |  | **0.44** (0.08) | 0.45 |  |  |  |  | **-0.30** (0.11) | -0.23 |
| Classroom-level victimization at T1 x Victimization at T1 |  |  |  | **-0.23** (0.11) | -0.27 |  |  |  |  | **-0.47** (0.16) | -0.35 |  |  |  |  | **0.56** (0.16) | 0.42 |
| Classroom-level victimization at T1 x Psych. adjustment at T1 |  |  |  | -0.27 (0.24) | -0.11 |  |  |  |  | 0.07 (0.14) | 0.06 |  |  |  |  | 0.08 (0.16) | 0.05 |
| Random Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.15** (0.01) |  |  | **0.15** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |
| Victimization at T3 | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |
| Psych. adjustment at T2 | **0.07** (0.00) |  |  | **0.07** (0.00) |  |  | **0.15** (0.01) |  |  | **0.16** (0.01) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |
| Psych. adjustment at T3 | **0.05** (0.00) |  |  | **0.05** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |
| Victimization at T3 | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.0**1 (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |
| Psych. adjustment at T2 | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.03** (0.00) |  |  | **0.03** (0.00) |  |
| Psych. adjustment at T3 | **0.02** (0.00) |  |  | **0.01** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.04** (0.01) |  |  | **0.04** (0.01) |  |
| Slope for Victimization at T1 | **0.02** (0.01) |  |  | **0.02** (0.01) |  |  | **0.04** (0.01) |  |  | **0.03** (0.01) |  |  | **0.04** (0.01) |  |  | **0.03** (0.01) |  |
| Slope for Psych. adjustment at T1 | **0.14** (0.03) |  |  | **0.14** (0.03) |  |  | **0.03** (0.01) |  |  | **0.03** (0.01) |  |  | **0.05** (0.01) |  |  | **0.06** (0.01) |  |
| Model Summary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Deviance | 16602.07 | |  | 15943.54 | |  | 24048.18 | |  | 23433.85 | |  | 24525.14 | |  | 23862.76 | |
| R2 at the Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 | .33 | |  | .34 | |  | .29 | |  | .30 | |  | .32 | |  | .34 | |
| Victimization at T3 | .38 | |  | .38 | |  | .36 | |  | .37 | |  | .37 | |  | .37 | |
| Psych. adjustment at T2 | .54 | |  | .54 | |  | .48 | |  | .48 | |  | .54 | |  | .55 | |
| Psych. adjustment at T3 | .63 | |  | .63 | |  | .56 | |  | .56 | |  | .62 | |  | .62 | |
| R2 at the Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 |  |  |  | .61 | |  |  |  |  | .50 | |  |  |  |  | .63 | |
| Victimization at T3 |  |  |  | .64 | |  |  |  |  | .68 | |  |  |  |  | .64 | |
| Psych. adjustment at T2 |  |  |  | .06 | |  |  |  |  | .14 | |  |  |  |  | .07 | |
| Psych. adjustment at T3 |  |  |  | .08 | |  |  |  |  | .20 | |  |  |  |  | .05 | |
| R2 for Random Slopes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Slope for Psych. adjustment at T2 on Victimization at T1 |  |  |  | .07 | |  |  |  |  | .12 | |  |  |  |  | .18 | |
| Slope for Victimization at T2 on Psych. adjustment at T1 |  |  |  | .01 | |  |  |  |  | .01 | |  |  |  |  | .01 | |

*Note*. *N* = 3470 students in 227 classrooms; Gender coded as 0 = girl, 1 = boy; Est. = Unstandardized Bayesian posterior median estimate; SD = Standard deviation of the posterior distribution; Std. Est. = Standardised estimate; Statistically significant results at are shown boldface.

Table S3

Multilevel Latent Change Score Model Results: Unstandardized and Standardized Bayesian Posterior Median Estimates

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Psychological Adjustment | | | | | | | | | | | | | | | | |
|  | Depressive Symptoms | | | | |  | Anxiety | | | | |  | Self-Esteem | | | | |
|  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |
|  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |
| Fixed Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender → ΔVictimization, T2 minus T1 | 0.02 (0.02) | 0.02 |  | 0.02 (0.02) | 0.02 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |
| Gender → ΔVictimization, T3 minus T2 | 0.01 (0.02) | 0.02 |  | 0.02 (0.02) | 0.02 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |
| Gender → Δ Psych. adjustment, T2 minus T1 | **-0.06** (0.01) | -0.10 |  | **-0.06** (0.01) | -0.10 |  | **-0.16** (0.02) | -0.17 |  | **-0.16** (0.02) | -0.17 |  | **0.08** (0.02) | 010 |  | **0.08** (0.02) | 0.10 |
| Gender → Δ Psych. adjustment, T3 minus T2 | **-0.06** (0.01) | -0.11 |  | **-0.06** (0.01) | -0.10 |  | **-0.17** (0.02) | -0.19 |  | **-0.17** (0.02) | -0.19 |  | **0.10** (0.02) | 0.12 |  | **0.10** (0.02) | 0.12 |
| Age at T1 → ΔVictimization, T2 minus T1 | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |  | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.01 |
| Age at T1 → ΔVictimization, T3 minus T2 | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |  | 0.03 (0.02) | 0.03 |
| Age at T1 → Δ Psych. adjustment, T2 minus T1 | -0.02 (0.02) | -0.03 |  | -0.02 (0.01) | -0.03 |  | **-0.05** (0.02) | -0.05 |  | **-0.05** (0.02) | -0.04 |  | 0.04 (0.02) | 0.03 |  | 0.04 (0.02) | 0.03 |
| Age at T1 → Δ Psych. adjustment, T3 minus T2 | 0.01 (0.01) | 0.01 |  | 0.01 (0.01 | 0.01 |  | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |  | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |
| Autoregressive Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → ΔVictimization, T2 minus T1 | **-0.52** (0.02) | -0.50 |  | **-0.50** (0.02) | -0.49 |  | **-0.52** (0.02) | -0.49 |  | **-0.51** (0.02) | -0.49 |  | **-0.47** (0.02) | -0.45 |  | **-0.46** (0.02) | -0.45 |
| Victimization at T1 → ΔVictimization, T3 minus T2 | **0.25** (0.02) | 0.24 |  | **0.26** (0.02) | 0.25 |  | **0.26** (0.02) | 0.25 |  | **0.27** (0.02 | 0.26 |  | **0.25** (0.02) | 0.25 |  | **0.26** (0.02) | 0.25 |
| Victimization at T2 → ΔVictimization, T3 minus T2 | **-0.62** (0.02) | -0.67 |  | **-0.63** (0.02) | -0.67 |  | **-0.58** (0.02) | -0.62 |  | **-0.59** (0.02) | -0.63 |  | **-0.58** (0.02) | -0.62 |  | **-0.59** (0.02) | -0.63 |
| Psych. adjustment at T1 → ΔPsych. adjustment, T2 minus T1 | **-0.23** (0.02) | -0.29 |  | **-0.24** (0.02 | -0.29 |  | **-0.35** (0.02) | -0.41 |  | **-0.36** (0.02) | -0.42 |  | **-0.26** (0.02) | -0.33 |  | **-0.26** (0.02) | -0.33 |
| Psych. adjustment at T1 → ΔPsych. adjustment, T3 minus T2 | **0.21** (0.02) | 0.28 |  | **0.21** (0.02) | 0.28 |  | **0.29** (0.02) | 0.34 |  | **0.29** (0.02) | 0.34 |  | **0.26** (0.02) | 0.33 |  | **0.26** (0.02) | 0.34 |
| Psych. adjustment at T2 → ΔPsych. adjustment, T3 minus T2 | **-0.39** (0.02) | -0.59 |  | **-0.39** (0.02) | -0.59 |  | **-0.52** (0.02) | -0.67 |  | **-0.52** (0.02) | -0.68 |  | **-0.40** (0.02) | -0.54 |  | **-0.39** (0.02) | -0.55 |
| Cross-Lagged Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → ΔPsych. adjustment, T2 minus T1 | **0.05** (0.02) | 0.08 |  | **0.07** (0.02) | 0.11 |  | **0.07** (0.03) | 0.08 |  | **0.10** (0.03) | 0.10 |  | **-0.08** (0.03) | -0.08 |  | **-0.11** (0.03) | -0.12 |
| Victimization at T2 → ΔPsych. adjustment, T3 minus T2 | **0.04** (0.01) | 0.08 |  | **0.04** (0.01) | 0.07 |  | **0.04** (0.02) | 0.04 |  | **0.05** (0.02) | 0.05 |  | **-0.11** (0.02) | -0.13 |  | **-0.11** (0.02) | -0.13 |
| Psych. adjustment at T1 → ΔVictimization, T2 minus T1 | **0.25** (0.04) | 0.18 |  | **0.25** (0.04) | 0.19 |  | **0.16** (0.02) | 0.18 |  | **0.15** (0.02) | 0.18 |  | **-0.11** (0.03) | -0.13 |  | **-0.11** (0.03) | -0.14 |
| Psych. adjustment at T2 → ΔVictimization, T3 minus T2 | **0.18** (0.03) | 0.16 |  | **0.18** (0.03) | 0.16 |  | **0.05** (0.02) | 0.06 |  | **0.04** (0.02) | 0.06 |  | **-0.06** (0.02) | -0.08 |  | **-0.06** (0.02) | -0.08 |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intercept Victimization at T2 | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |
| Intercept Victimization at T3 | **0.23** (0.01) |  |  | **0.22** (0.01) |  |  | **0.23** (0.01) |  |  | **0.22** (0.01) |  |  | **0.23** (0.01) |  |  | **0.22** (0.01) |  |
| Intercept Psych. adjustment at T2 | **0.37** (0.01) |  |  | **0.36** (0.01) |  |  | **0.91** (0.01) |  |  | **0.90** (0.01) |  |  | **1.93** (0.01) |  |  | **1.94** (0.01) |  |
| Intercept Psych. adjustment at T3 | **0.35** (0.01) |  |  | **0.34** (0.01) |  |  | **0.73** (0.01) |  |  | **0.73** (0.01) |  |  | **2.00** (0.02) |  |  | **2.01** (0.02) |  |
| Classroom-level victimization at T1 → Victimization at T2 |  |  |  | **0.60** (0.06) | 0.78 |  |  |  |  | **0.59** (0.06) | 0.77 |  |  |  |  | **0.61** (0.06) | 0.80 |
| Classroom-level victimization at T1 → Victimization at T3 |  |  |  | **0.57** (0.06) | 0.80 |  |  |  |  | **0.55** (0.06) | 0.82 |  |  |  |  | **0.57** (0.07) | 0.80 |
| Classroom-level victimization at T1 → Psych. adjustment at T2 |  |  |  | **0.21** (0.07) | 0.25 |  |  |  |  | **0.37** (0.09) | 0.38 |  |  |  |  | **-0.30** (0.09) | -0.26 |
| Classroom-level victimization at T1 → Psych. adjustment at T3 |  |  |  | **0.23** (0.07) | 0.29 |  |  |  |  | **0.44** (0.08) | 0.45 |  |  |  |  | **-0.30** (0.11) | -0.23 |
| Classroom-level victimization at T1 x Victimization at T1 |  |  |  | **-0.24** (0.11) | -0.28 |  |  |  |  | **-0.48** (0.16) | -0.36 |  |  |  |  | **0.56** (0.16) | 0.42 |
| Classroom-level victimization at T1 x Psych. adjustment at T1 |  |  |  | -0.26 (0.24) | -0.10 |  |  |  |  | 0.07 (0.13) | 0.06 |  |  |  |  | 0.10 (0.16) | 0.06 |
| Random Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ΔVictimization, T2 minus T1 | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.15** (0.00) |  |  | **0.15** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |
| ΔVictimization, T3 minus T2 | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.13** (0.00) |  |  | **0.14** (0.00) |  |
| ΔPsych. adjustment, T2 minus T1 | **0.07** (0.00) |  |  | **0.07** (0.00) |  |  | **0.16** (0.01) |  |  | **0.15** (0.01) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00 |  |
| ΔPsych. adjustment, T3 minus T2 | **0.05** (0.00) |  |  | **0.05** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |  | **0.14** (0.00) |  |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.01** (0.00) |  |
| Victimization at T3 | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |
| Psych. adjustment at T2 | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.03** (0.00) |  |  | **0.03** (0.00) |  |
| Psych. adjustment at T3 | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.02** (0.00 |  |  | **0.02** (0.00) |  |  | **0.04** (0.01) |  |  | **0.04** (0.01) |  |
| Slope for Victimization at T1 | **0.02** (0.01 |  |  | **0.02** (0.01) |  |  | **0.04** (0.01) |  |  | **0.03** (0.01) |  |  | **0.04** (0.01) |  |  | **0.03** (0.01) |  |
| Slope for Psych. adjustment at T1 | **0.14** (0.03) |  |  | **0.14** (0.03) |  |  | **0.03** (0.01) |  |  | **0.03** (0.01) |  |  | **0.05** (0.01) |  |  | **0.06** (0.01) |  |
| Model Summary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Deviance | 16609.01 | |  | 15951.42 | |  | 24046.46 | |  | 23433.40 | |  | 24530.09 | |  | 23871.37 | |
| R2 at the Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ΔVictimization, T2 minus T1 | .27 | |  | .27 | |  | .24 | |  | .24 | |  | .25 | |  | .25 | |
| ΔVictimization, T3 minus T2 | .30 | |  | .30 | |  | .28 | |  | .28 | |  | .28 | |  | .28 | |
| ΔPsych. adjustment, T2 minus T1 | 10 | |  | .10 | |  | .17 | |  | .17 | |  | .13 | |  | .14 | |
| ΔPsych. adjustment, T3 minus T2 | 17 | |  | .17 | |  | .25 | |  | .25 | |  | .14 | |  | .14 | |
| R2 at the Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 |  |  |  | .60 | |  |  |  |  | .59 | |  |  |  |  | .64 | |
| Victimization at T3 |  |  |  | .64 | |  |  |  |  | .67 | |  |  |  |  | .65 | |
| Psych. adjustment at T2 |  |  |  | .07 | |  |  |  |  | .14 | |  |  |  |  | .07 | |
| Psych. adjustment at T3 |  |  |  | .08 | |  |  |  |  | .20 | |  |  |  |  | .05 | |
| R2 for Random Slopes |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Slope for Psych. adjustment at T2 on Victimization at T1 |  |  |  | .08 | |  |  |  |  | .13 | |  |  |  |  | .17 | |
| Slope for Victimization at T2 on Psych. adjustment at T1 |  |  |  | .01 | |  |  |  |  | .01 | |  |  |  |  | .01 | |

*Note*. *N* = 3470 students in 227 classrooms; Gender coded as 0 = girl, 1 = boy; Est. = Unstandardized Bayesian posterior median estimate; SD = Standard deviation of the posterior distribution; Std. Est. = Standardised estimate; Statistically significant results at are shown boldface.

Table S4

Multilevel Random Intercept Cross-Lagged Panel Model Results: Unstandardized and Standardized Bayesian Posterior Median Estimates

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Psychological Adjustment | | | | | | | | | | | | | | | | |
|  | Depressive Symptoms | | | | |  | Anxiety | | | | |  | Self-Esteem | | | | |
|  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |  | Model 1 | |  | Model 2 | |
|  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |  | Est. (SD) | Std. Est. |
| Fixed Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Control Variables |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender → Random intercept Victimization | **-0.04** (0.02) | -0.07 |  | **-0.05** (0.02) | -0.07 |  | **-0.04** (0.02) | -0.06 |  | **-0.04** (0.02) | -0.06 |  | **-0.03** (0.02) | -0.05 |  | -0.03 (0.02) | -0.05 |
| Gender → Random intercept Psych. adjustment | **-0.24** (0.02) | -0.41 |  | **-0.24** (0.02) | -0.41 |  | **-0.43** (0.02) | -0.48 |  | **-0.43** (0.02) | -0.48 |  | **0.29** (0.02) | 0.31 |  | **0.29** (0.02) | 0.31 |
| Age at T1 → Random intercept Victimization | 0.01 (0.02) | 0.01 |  | 0.01 (0.02) | 0.01 |  | 0.00 (0.02) | 0.00 |  | 0.00 (0.02) | 0.00 |  | 0.01 (0.02) | 0.02 |  | 0.01 (0.02) | 0.02 |
| Age at T1 → Random intercept Psych. adjustment | -0.01 (0.02) | -0.01 |  | -0.01 (0.02) | -0.01 |  | -0.03 (0.03) | -0.03 |  | -0.04 (0.03) | -0.03 |  | 0.01 (0.03) | 0.01 |  | 0.01 (0.03) | 0.01 |
| Autoregressive Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → Victimization at T2 | -0.02 (0.06) | -0.02 |  | -0.03 (0.06) | -0.02 |  | -0.01 (0.06) | -0.01 |  | -0.01 (0.05) | -0.01 |  | **0.15** (0.05) | 0.13 |  | **0.15** (0.05) | 0.12 |
| Victimization at T2 → Victimization at T3 | **0.13** (0.04) | 0.12 |  | **0.11** (0.05) | 0.10 |  | **0.23** (0.04) | 0.23 |  | **0.23** (0.04) | 0.23 |  | **0.26** (0.04) | 0.27 |  | **0.25** (0.04) | 0.24 |
| Psych. adjustment at T1 → Psych. adjustment at T2 | **0.38** (0.08) | 0.29 |  | **0.39** (0.08) | 0.29 |  | **0.13** (0.06) | 0.11 |  | 0.13 (0.07) | 0.10 |  | 0.14 (0.11) | 0.11 |  | 0.16 (0.11) | 0.12 |
| Psych. adjustment at T2 → Psych. adjustment at T3 | **0.50** (0.03) | 0.50 |  | **0.50** (0.03) | 0.51 |  | **0.23** (0.04) | 0.22 |  | **0.23** (0.05) | 0.21 |  | **0.43** (0.04) | 0.36 |  | **0.44** (0.04) | 0.37 |
| Cross-Lagged Paths |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T1 → Psych. adjustment at T2 | -0.03 (0.06) | -0.02 |  | 0.00 (0.07) | 0.02 |  | -0.06 (0.08) | -0.04 |  | -0.10 (0.09) | -0.07 |  | -0.03 (0.07) | -0.03 |  | -0.09 (0.08) | -0.08 |
| Victimization at T2 → Psych. adjustment at T3 | 0.03 (0.02) | 0.04 |  | 0.03 (0.02) | 0.04 |  | 0.07(0.04) | 0.07 |  | 0.07 (0.04) | 0.07 |  | **-0.15** (0.04) | -0.14 |  | **-0.15** (0.04) | -0.14 |
| Psych. adjustment at T1 → Victimization at T2 | 0.10 (0.09) | 0.07 |  | 0.13 (0.10) | 0.08 |  | **0.14** (0.05) | 0.13 |  | **0.14** (0.06) | 0.11 |  | -0.05 (0.08) | -0.04 |  | -0.05 (0.08) | -0.04 |
| Psych. adjustment at T2 → Victimization at T3 | **0.28** (0.06) | 0.22 |  | **0.32** (0.08) | 0.27 |  | -0.03 (0.05) | -0.04 |  | -0.04 (0.06) | -0.05 |  | -0.07 (0.04) | -0.06 |  | **-0.08** (0.04) | -0.09 |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Intercept Victimization at T2 | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |  | **0.25** (0.01) |  |
| Intercept Victimization at T3 | **0.23** (0.01) |  |  | **0.23** (0.01) |  |  | **0.23** (0.01) |  |  | **0.23** (0.01) |  |  | **0.23** (0.01) |  |  | **0.22** (0.01) |  |
| Intercept Psych. adjustment at T2 | **0.36** (0.01) |  |  | **0.36** (0.01) |  |  | **0.91** (0.01) |  |  | **0.91** (0.01) |  |  | **1.93** (0.01) |  |  | **1.93** (0.01) |  |
| Intercept Psych. adjustment at T3 | **0.34** (0.01) |  |  | **0.34** (0.01) |  |  | **0.73** (0.01) |  |  | **0.73** (0.01) |  |  | **2.01** (0.02) |  |  | **2.01** (0.02) |  |
| Classroom-level victimization at T1 → Victimization at T2 |  |  |  | **0.59** (0.06) | 0.82 |  |  |  |  | **0.59** (0.06) | 0.81 |  |  |  |  | **0.60** (0.06) | 0.84 |
| Classroom-level victimization at T1 → Victimization at T3 |  |  |  | **0.57** (0.06) | 0.83 |  |  |  |  | **0.57** (0.06) | 0.83 |  |  |  |  | **0.57** (0.06) | 0.83 |
| Classroom-level victimization at T1 → Psych. adjustment at T2 |  |  |  | **0.21** (0.07) | 0.25 |  |  |  |  | **0.37** (0.08) | 0.38 |  |  |  |  | **-0.31** (0.09) | -0.28 |
| Classroom-level victimization at T1 → Psych. adjustment at T3 |  |  |  | **0.23** (0.07) | 0.28 |  |  |  |  | **0.44** (0.08) | 0.45 |  |  |  |  | **-0.31** (0.11) | -0.24 |
| Classroom-level victimization at T1 x Victimization at T1 |  |  |  | -0.35 (0.33) | -0.12 |  |  |  |  | -0.15 (0.40) | -0.04 |  |  |  |  | **0.88** (0.32) | 0.34 |
| Random Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Level 1 – Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Random intercept victimization | **0.10** (0.01) |  |  | **0.10** (0.01) |  |  | **0.10** (0.01) |  |  | **0.10** (0.01) |  |  | **0.08** (0.01) |  |  | **0.09** (0.01) |  |
| Random intercept Psych. adjustment | **0.07** (0.00) |  |  | **0.07** (0.00) |  |  | **0.14** (0.01) |  |  | **0.14** (0.01) |  |  | **0.18** (0.01) |  |  | **0.18** (0.01) |  |
| Victimization at T2 | **0.11** (0.01) |  |  | **0.11** (0.01) |  |  | **0.11** (0.01) |  |  | **0.11** (0.01) |  |  | **0.13** (0.01) |  |  | **0.13** (0.01) |  |
| Victimization at T3 | **0.11** (0.01) |  |  | **0.11** (0.01) |  |  | **0.12** (0.00) |  |  | **0.12** (0.00) |  |  | **0.12** (0.00) |  |  | **0.12** (0.00) |  |
| Psych. adjustment at T2 | **0.05** (0.00) |  |  | **0.05** (0.00) |  |  | **0.10** (0.01) |  |  | **0.10** (0.01) |  |  | **0.10** (0.01) |  |  | **0.10** (0.01) |  |
| Psych. adjustment at T3 | **0.05** (0.00) |  |  | **0.05** (0.00) |  |  | **0.12** (0.01) |  |  | **0.12** (0.01) |  |  | **0.13** (0.00) |  |  | **0.13** (0.01) |  |
| Level 2 – Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |
| Victimization at T3 | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |  | **0.01** (0.00) |  |  | **0.00** (0.00) |  |
| Psych. adjustment at T2 | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.03** (0.00) |  |  | **0.03** (0.00) |  |
| Psych. adjustment T3 | **0.01** (0.00) |  |  | **0.01** (0.00) |  |  | **0.02** (0.00) |  |  | **0.02** (0.00) |  |  | **0.04** (0.01) |  |  | **0.04** (0.01) |  |
| Slope for Victimization at T1 | **0.20** (0.04) |  |  | **0.21** (0.04) |  |  | **0.29** (0.07) |  |  | **0.29** (0.07) |  |  | **0.14** (0.05) |  |  | **0.13** (0.05) |  |
| Model Summary |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Deviance | 16618.03 | |  | 16099.99 | |  | 24042.92 | |  | 23502.01 | |  | 24645.72 | |  | 24110.71 | |
| R2 at the Student Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Random intercept Victimization | .01 | |  | .01 | |  | .01 | |  | .00 | |  | .00 | |  | .00 | |
| Random intercept Psych. adjustment | .17 | |  | .17 | |  | .24 | |  | .23 | |  | .10 | |  | .10 | |
| Victimization at T2 | .01 | |  | .01 | |  | .02 | |  | .01 | |  | .02 | |  | .02 | |
| Victimization at T3 | .08 | |  | .10 | |  | .06 | |  | .05 | |  | .09 | |  | .09 | |
| Psych. adjustment at T2 | .25 | |  | .26 | |  | .16 | |  | .16 | |  | .11 | |  | .12 | |
| Psych. adjustment at T3 | .27 | |  | .28 | |  | .06 | |  | .06 | |  | .18 | |  | .19 | |
| R2 at the Class Level |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Victimization at T2 |  |  |  | .68 | |  |  |  |  | .65 | |  |  |  |  | .70 | |
| Victimization at T3 |  |  |  | .69 | |  |  |  |  | .69 | |  |  |  |  | .69 | |
| Psych. adjustment at T2 |  |  |  | .06 | |  |  |  |  | .15 | |  |  |  |  | .08 | |
| Psych. adjustment at T3 |  |  |  | .08 | |  |  |  |  | .20 | |  |  |  |  | .06 | |
| R2 for the Random Slope |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  | |
| Slope for Psych. adjustment at T2 on Victimization at T1 |  |  |  | .01 | |  |  |  |  | .01 | |  |  |  |  | .12 | |

*Note*. *N* = 3470 students in 227 classrooms; Gender coded as 0 = girl, 1 = boy; Est. = Unstandardized Bayesian posterior median estimate; SD = Standard deviation of the posterior distribution; Std. Est. = Standardised estimate; Statistically significant results at are shown boldface.