**Online Supplemental Materials for**

**Gender-specific co-developmental trajectories of internalizing and externalizing problems from middle childhood to early adolescence: Environmental and individual predictors**

**Authors’ note:**

We developed these materials to provide additional technical information and to keep the main manuscript from becoming needlessly long.

**Table S1**

Studies related to heterogeneous trajectories of internalizing and externalizing problems in children and adolescents

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Country** | **Sample** | **Age or grade / wave** | **Analyses** | **Measures** | **Trajectories** | |
| **Studies examining separate heterogeneous trajectories of internalizing and externalizing problems** | | | | | | | |
| Fanti et al. (2010) | U.S. | 1232 (52% boys) | From ages 2 to 12 / 9-wave | Latent class growth models (LCGM) | The Child Behavior Checklist (CBCL) | **Three trajectories of internalizing problems:** -High (18.1%) -Moderate (42.6%) -Low (39.3%) | **Five trajectories of externalizing problems:** -Chronic (8.4%) -High desister (13.6%) -Moderate (19.4%) -Moderate desister (31.6%) -Low (27%) |
| Hauser-Cram et al. (2016) | American | 169 (54% boys) | From age 3 to age 18 | Hierarchical linear modeling and latent growth curve approaches | The parent-reported Child Behavior Checklist (CBCL) | **Four trajectories of internalizing problems:** -High and increasing (11%) -Moderate and increasing (32%) -Moderate and decreasing (41%) -Low and decreasing (16%) | **Three trajectories of externalizing problems:** -High curvilinear (8.4%) -Moderate stable (53%) -Low stable (21%) |
| Nivard et al. (2017) | United Kingdom | 7202a | At ages 7, 10, 13, and 15 years | Growth mixture models (GMM) | The Development and Well-Being Assessment | **Five trajectories of internalizing problems:** -Adolescent increasing (12.6%) -Increasing (17.8%) -Decreasing (5.1%) -Low (41.8%) -Very low (22.7%) | **Five trajectories of externalizing problems:** -High (2.4%) -Increasing (8.3%) -Decreasing (7%) -Low (54%) -Very low (28%) |
| Papachristou and Flouri (2019) | United Kingdom | 16844 (50% boys) | At ages 3, 5, 7, and 11 years | Growth mixture models (GMM) | The parent-reported Strengths and Difficulties Questionnaire (SDQ) | **Four trajectories of internalizing problems:** -High and increasing (3%) -High and decreasing (8%) -Low and increasing (5.1%) -Persistently low (79%) | **Four trajectories of externalizing problems:** -Persistently high (5%) -High and decreasing (5%) -High and increasing (7%) -Persistently low (84%) |
| **Studies examining heterogeneous co-development trajectories of internalizing and externalizing problems** | | | | | | | |
| Hinnant and El-Sheikh (2013) | American | 390 (46% boys) | At ages 8, 9, 10, and 11 | Growth mixture models (GMM) | Internalizing problems: Children’s Depression Inventory (CDI), the Revised Children’s Manifest Anxiety Scale (RCMAS); Externalizing problems: mothers and fathers reported Personality Inventory for Children—II (PIC2) | **Three co-development trajectories of internalizing and externalizing problems:** -High internalizing and externalizing (10%) -Low externalizing and moderate internalizing (41%) -Normative (49%) | |
| Wiggins et al. (2015) | American | 4192 (52.5% boys) | Ages 3, 5, 9 | Parallel process latent class growth analysis (PP-LCGM) | The parent-reported Child Behavior Checklist (CBCL) | **Three co-development trajectories of internalizing and externalizing problems:** -Severe symptoms (3.8%) -Severe-decreasing (23%) -Normative (73%) | |
| Wu et al. (2020) | China (Taiwan) | 2854 (51% boys) | From age 7 to 15 / 4-wave | The group-based multi-trajectory modeling | Depressive symptoms: Kovacs’ Children’s Depression Inventory and the Center for Epidemiological Studies Depression Scale for Children Aggression: Four items including name calling, throwing things in anger, shouting at people, and physical fight in the past month | **Four co-development trajectories of aggressive-depressive problems:** -Comorbid (14.2%) -Depressive (27.3%) -Aggressive (31.1%) -Moderate (27.5%) | |
| Duprey et al. (2020) | American | 1314 (48.5% boys) | At ages 6, 8, 10, 12, and 14 | Growth mixture models (GMM) | The caretakers-reported Child Behavior Checklist (CBCL) | **Four co-development trajectories of internalizing and externalizing problems:** -High comorbidity (6%) -Moderate and decreasing (3%) -High externalizing (8%) -Low symptomology (82%) | |
| Shi et al. (2020/2021) | American | 784 (52.6% boys) | From grade 1 to grade 12 | Parallel-process growth mixture models (PP-GMMs) | The teacher-reported Strengths and Difficulties Questionnaire (SDQ) | **Four co-development trajectories of internalizing and externalizing problems:** -Chronic co-occurring (30.1%) -Moderate co-occurring (28.5%) -Pure-externalizing (18.6%) -Congruent-low (22.8%) | |

*Note.* a. The study of Nivard et al. (2017) did not report sex ratio.

**Preliminary Analyses**

**Descriptive Statistics**

**Table S2** depicts the means, standard deviations, and the bivariate correlations of all study variables for the total sample, the sample of boys, and the sample of girls.

**Table S2**

Pearson correlation and descriptive statistics for the main variables

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | M | SD |
| Total (N=1653) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Gender | -0.067\*\* | -0.06\* | -0.025 | 0.022 | 0.081\*\* | 0.138\*\*\* | -0.216\*\*\* | -0.194\*\*\* | -0.187\*\*\* | -0.113\*\*\* | -0.145\*\*\* | -0.123\*\*\* | 1.45 | 0.50 |
| 2. CM | 0.227\*\*\* | 0.064\* | 0.034 | 0.040 | 0.043 | 0.023 | 0.008 | 0.012 | 0.050 | 0.009 | 0.034 | 0.046 | 2.37 | 0.55 |
| 3. PMT | 0.294\*\*\* | 0.200\*\*\* | 0.156\*\*\* | 0.082\*\* | 0.072\*\* | 0.082\*\* | 0.212\*\*\* | 0.133\*\*\* | 0.131\*\*\* | 0.091\*\* | 0.087\*\* | 0.110\*\*\* | 1.36 | 0.50 |
| 4. Peer victimization | 0.466\*\*\* | 0.259\*\*\* | 0.224\*\*\* | 0.154\*\*\* | 0.165\*\*\* | 0.124\*\*\* | 0.174\*\*\* | 0.111\*\*\* | 0.164\*\*\* | 0.135\*\*\* | 0.131\*\*\* | 0.127\*\*\* | 0.61 | 0.63 |
| 5. SES | -0.061\* | -0.073\*\* | -0.042 | -0.071\*\* | -0.015 | -0.017 | -0.100\*\*\* | -0.136\*\*\* | -0.042 | -0.081\*\* | -0.085\*\* | -0.053 | 3.72 | 0.77 |
| 6. Sensation-seeking | 0.214\*\*\* | 0.139\*\*\* | 0.122\*\*\* | 0.154\*\*\* | 0.127\*\*\* | 0.078\*\* | 0.145\*\*\* | 0.116\*\*\* | 0.118\*\*\* | 0.074\*\* | 0.087\*\* | 0.094\*\*\* | 1.27 | 0.53 |
| 7. Self-control | -0.334\*\*\* | -0.220\*\*\* | -0.195\*\*\* | -0.150\*\*\* | -0.118\*\*\* | -0.113\*\*\* | -0.189\*\*\* | -0.147\*\*\* | -0.138\*\*\* | -0.134\*\*\* | -0.139\*\*\* | -0.153\*\*\* | 3.52 | 0.57 |
| 8. Age | -0.021 | -0.016 | 0.008 | 0.015 | 0.020 | -0.018 | -0.002 | 0.059\* | -0.005 | 0.025 | 0.010 | 0.017 | 9.40 | 0.51 |
| 9. T1 Internalizing | 1 | 0.386\*\*\* | 0.347\*\*\* | 0.266\*\*\* | 0.254\*\*\* | 0.210\*\*\* | 0.125\*\*\* | 0.119\*\*\* | 0.105\*\*\* | 0.083\*\* | 0.127\*\*\* | 0.102\*\*\* | 0.33 | 0.35 |
| 10. T2 Internalizing |  | 1 | 0.500\*\*\* | 0.389\*\*\* | 0.348\*\*\* | 0.292\*\*\* | 0.074\*\* | 0.134\*\*\* | 0.087\*\* | 0.075\*\* | 0.103\*\* | 0.074\*\* | 0.28 | 0.35 |
| 11. T3 Internalizing |  |  | 1 | 0.521\*\*\* | 0.443\*\*\* | 0.372\*\*\* | 0.092\*\* | 0.148\*\*\* | 0.135\*\*\* | 0.131\*\*\* | 0.134\*\*\* | 0.137\*\*\* | 0.24 | 0.33 |
| 12. T4 Internalizing |  |  |  | 1 | 0.549\*\*\* | 0.492\*\*\* | 0.070\* | 0.144\*\*\* | 0.112\*\*\* | 0.134\*\*\* | 0.111\*\* | 0.099\*\* | 0.24 | 0.33 |
| 13. T5 Internalizing |  |  |  |  | 1 | 0.537\*\*\* | 0.051\* | 0.075\*\* | 0.080\*\* | 0.090\*\*\* | 0.074\*\* | 0.078\*\* | 0.25 | 0.36 |
| 14. T6 Internalizing |  |  |  |  |  | 1 | -0.006 | 0.047 | 0.039 | 0.073\* | 0.063\* | 0.062\* | 0.24 | 0.37 |
| 15. T1 Externalizing |  |  |  |  |  |  | 1 | 0.337\*\*\* | 0.354\*\*\* | 0.319\*\*\* | 0.336\*\*\* | 0.283\*\*\* | 0.19 | 0.19 |
| 16. T2 Externalizing |  |  |  |  |  |  |  | 1 | 0.455\*\*\* | 0.452\*\*\* | 0.470\*\*\* | 0.416\*\*\* | 0.14 | 0.18 |
| 17. T3 Externalizing |  |  |  |  |  |  |  |  | 1 | 0.365\*\*\* | 0.438\*\*\* | 0.389\*\*\* | 0.14 | 0.19 |
| 18. T4 Externalizing |  |  |  |  |  |  |  |  |  | 1 | 0.457\*\*\* | 0.455\*\*\* | 0.14 | 0.21 |
| 19. T5 Externalizing |  |  |  |  |  |  |  |  |  |  | 1 | 0.516\*\*\* | 0.14 | 0.19 |
| 20. T6 Externalizing |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.13 | 0.19 |
| Boys (N=902) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. CM | 0.256\*\*\* | 0.070\* | 0.047 | 0.041 | 0.033 | 0.023 | 0.035 | 0.041 | 0.094\*\* | 0.025 | 0.053 | 0.051 | 2.38 | 0.61 |
| 3. PMT | 0.315\*\*\* | 0.232\*\*\* | 0.224\*\*\* | 0.110\*\* | 0.102\*\* | 0.104\*\* | 0.182\*\*\* | 0.116\*\* | 0.096\* | 0.059 | 0.062 | 0.116\*\* | 1.45 | 0.56 |
| 4. Peer victimization | 0.500\*\*\* | 0.282\*\*\* | 0.260\*\*\* | 0.178\*\*\* | 0.234\*\*\* | 0.166\*\*\* | 0.166\*\*\* | 0.130\*\* | 0.154\*\*\* | 0.119\*\* | 0.139\*\* | 0.142\*\*\* | 0.70 | 0.67 |
| 5. SES | -0.080\* | -0.052 | -0.036 | -0.081\*\* | -0.032 | -0.044 | -0.081\* | -0.182\*\*\* | -0.023 | -0.116\*\* | -0.117\*\* | -0.133\*\*\* | 3.69 | 0.77 |
| 6. Sensation-seeking | 0.217\*\*\* | 0.115\*\* | 0.108\*\* | 0.157\*\*\* | 0.125\*\* | 0.112\*\* | 0.126\*\*\* | 0.098\*\* | 0.089\*\* | 0.059 | 0.066 | 0.095\*\* | 1.36 | 0.61 |
| 7. Self-control | -0.343\*\*\* | -0.211\*\*\* | -0.203\*\*\* | -0.114\*\* | -0.143\*\*\* | -0.126\*\* | -0.161\*\*\* | -0.149\*\*\* | -0.128\*\*\* | -0.126\*\*\* | -0.130\*\*\* | -0.218\*\*\* | 3.45 | 0.57 |
| 8. Age | -0.008 | 0.015 | -0.003 | 0.012 | 0.040 | 0.020 | -0.006 | 0.027 | 0.023 | 0.032 | 0.032 | 0.062 | 9.42 | 0.51 |
| 9. T1 Internalizing | 1 | 0.345\*\*\* | 0.341\*\*\* | 0.238\*\*\* | 0.270\*\*\* | 0.233\*\*\* | 0.098\*\* | 0.117\*\*\* | 0.110\*\* | 0.073 | 0.115\*\* | 0.148\*\*\* | 0.36 | 0.36 |
| 10. T2 Internalizing |  | 1 | 0.491\*\*\* | 0.325\*\*\* | 0.337\*\*\* | 0.272\*\*\* | 0.02 | 0.143\*\*\* | 0.107\*\* | 0.077\* | 0.110\*\* | 0.116\*\* | 0.30 | 0.37 |
| 11. T3 Internalizing |  |  | 1 | 0.440\*\*\* | 0.419\*\*\* | 0.353\*\*\* | 0.06 | 0.182\*\*\* | 0.168\*\*\* | 0.152\*\*\* | 0.144\*\*\* | 0.201\*\*\* | 0.25 | 0.34 |
| 12. T4 Internalizing |  |  |  | 1 | 0.510\*\*\* | 0.456\*\*\* | 0.059 | 0.195\*\*\* | 0.153\*\* | 0.162\*\*\* | 0.160\*\*\* | 0.120\*\* | 0.23 | 0.33 |
| 13. T5 Internalizing |  |  |  |  | 1 | 0.508\*\*\* | 0.077\* | 0.105\*\* | 0.136\*\*\* | 0.120\*\* | 0.124\*\* | 0.135\*\*\* | 0.23 | 0.34 |
| 14. T6 Internalizing |  |  |  |  |  | 1 | 0.022 | 0.086\* | 0.073 | 0.108\* | 0.107\* | 0.103\* | 0.19 | 0.33 |
| 15. T1 Externalizing |  |  |  |  |  |  | 1 | 0.335\*\*\* | 0.367\*\*\* | 0.317\*\*\* | 0.316\*\*\* | 0.335\*\*\* | 0.22 | 0.20 |
| 16. T2 Externalizing |  |  |  |  |  |  |  | 1 | 0.473\*\*\* | 0.482\*\*\* | 0.484\*\*\* | 0.484\*\*\* | 0.17 | 0.20 |
| 17. T3 Externalizing |  |  |  |  |  |  |  |  | 1 | 0.357\*\*\* | 0.432\*\*\* | 0.409\*\*\* | 0.17 | 0.20 |
| 18. T4 Externalizing |  |  |  |  |  |  |  |  |  | 1 | 0.485\*\*\* | 0.473\*\*\* | 0.16 | 0.22 |
| 19. T5 Externalizing |  |  |  |  |  |  |  |  |  |  | 1 | 0.640\*\*\* | 0.16 | 0.21 |
| 20. T6 Externalizing |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.15 | 0.18 |
| Girls (N=751) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. CM | 0.173\*\*\* | 0.047 | 0.013 | 0.041 | 0.065 | 0.037 | -0.058 | -0.070 | -0.049 | -0.028 | -0.011 | 0.031 | 2.35 | 0.48 |
| 3. PMT | 0.238\*\*\* | 0.120\*\* | 0.036 | 0.056 | 0.078\* | 0.129\*\* | 0.167\*\* | 0.060 | 0.101 | 0.092\* | 0.056 | 0.056 | 1.25 | 0.40 |
| 4. Peer victimization | 0.401\*\*\* | 0.206\*\*\* | 0.167\*\*\* | 0.132\*\* | 0.116\*\* | 0.131\*\* | 0.109\*\* | -0.001 | 0.114\* | 0.120\*\* | 0.054 | 0.062 | 0.51 | 0.57 |
| 5. SES | -0.028 | -0.095\*\* | -0.048 | 0.060 | -0.005 | -0.001 | -0.115\*\* | -0.050 | -0.054 | -0.024 | -0.025 | 0.042 | 3.75 | 0.77 |
| 6. Sensation-seeking | 0.185\*\*\* | 0.166\*\*\* | 0.150\*\* | 0.182\*\*\* | 0.201\*\*\* | 0.122\*\* | 0.058 | 0.029 | 0.068 | 0.037 | 0.045 | 0.030 | 1.15 | 0.38 |
| 7. Self-control | -0.309\*\*\* | -0.218\*\*\* | -0.181\*\*\* | -0.203\*\*\* | -0.117\*\* | -0.142\*\*\* | -0.172\*\*\* | -0.085\* | -0.097\*\* | -0.114\*\* | -0.114\*\* | -0.044 | 3.60 | 0.55 |
| 8. Age | -0.046 | -0.024 | 0.020 | 0.021 | 0.008 | -0.046 | -0.022 | 0.095\* | -0.067\* | 0.005 | -0.025 | -0.049 | 9.38 | 0.50 |
| 9. T1 Internalizing | 1 | 0.443\*\*\* | 0.355\*\*\* | 0.311\*\*\* | 0.254\*\*\* | 0.218\*\*\* | 0.135\*\*\* | 0.097\* | 0.069 | 0.079\* | 0.122\*\* | 0.023 | 0.31 | 0.32 |
| 10. T2 Internalizing |  | 1 | 0.513\*\*\* | 0.477\*\*\* | 0.381\*\*\* | 0.346\*\*\* | 0.131\*\* | 0.091 | 0.028 | 0.054 | 0.068 | -0.006 | 0.26 | 0.33 |
| 11. T3 Internalizing |  |  | 1 | 0.621\*\*\* | 0.482\*\*\* | 0.414\*\*\* | 0.126\*\* | 0.085 | 0.079 | 0.97\* | 0.106\* | 0.043 | 0.24 | 0.32 |
| 12. T4 Internalizing |  |  |  | 1 | 0.592\*\*\* | 0.535\*\*\* | 0.097\* | 0.091\* | 0.069 | 0.102\*\* | 0.051 | 0.073\* | 0.25 | 0.34 |
| 13. T5 Internalizing |  |  |  |  | 1 | 0.556\*\*\* | 0.062 | 0.077 | 0.048 | 0.079\* | 0.035 | 0.038 | 0.29 | 0.39 |
| 14. T6 Internalizing |  |  |  |  |  | 1 | 0.025 | 0.07 | 0.066 | 0.074\* | 0.063 | 0.06 | 0.29 | 0.41 |
| 15. T1 Externalizing |  |  |  |  |  |  | 1 | 0.254\*\*\* | 0.260\*\*\* | 0.283\*\*\* | 0.315\*\*\* | 0.167\*\* | 0.15 | 0.16 |
| 16. T2 Externalizing |  |  |  |  |  |  |  | 1 | 0.364\*\*\* | 0.374\*\*\* | 0.395\*\*\* | 0.287\*\*\* | 0.10 | 0.15 |
| 17. T3 Externalizing |  |  |  |  |  |  |  |  | 1 | 0.350\*\*\* | 0.416\*\*\* | 0.327\*\*\* | 0.10 | 0.17 |
| 18. T4 Externalizing |  |  |  |  |  |  |  |  |  | 1 | 0.387\*\*\* | 0.415\*\*\* | 0.11 | 0.19 |
| 19. T5 Externalizing |  |  |  |  |  |  |  |  |  |  | 1 | 0.335\*\*\* | 0.11 | 0.16 |
| 20. T6 Externalizing |  |  |  |  |  |  |  |  |  |  |  | 1 | 0.10 | 0.19 |

*Note.* CM = Childhood Maltreatment; PMT = Psychological maltreatment by teachers; Internalizing = Internalizing problems; Externalizing = Externalizing problems. T1-T6 represents Time 1-Time 6 respectively

\**p* < 0.05; \*\**p* < 0.01; \*\*\**p* < 0.001

**Longitudinal Measurement Invariance**

As shown in **Table S3**, all measures showed strong invariance, suggesting that observed changes in these constructs over time were meaningful rather than reflecting measurement artifacts or item biases.

**Table S3**

Fit indices for measurement invariance of internalizing and externalizing problems

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Model Fit | χ2 | *df* | CFI | TLI | RMSEA | [90% CI] | ∆CFI |
| **Internalizing problems** | |  |  |  |  |  |  |
| Configural invariance | 2038.13 | 650 | 0.969 | 0.963 | 0.036 | [0.034, 0.038] | – |
| Weak invariance | 2101.91 | 678 | 0.968 | 0.963 | 0.036 | [0.034, 0.037] | 0.001 |
| Strong invariance | 2150.11 | 705 | 0.968 | 0.964 | 0.035 | [0.034, 0.037] | 0.001 |
| **Externalizing problems** | |  |  |  |  |  |  |
| Configural invariance | 1765.07 | 335 | 0.943 | 0.926 | 0.051 | [0.048, 0.053] | – |
| Weak invariance | 1896.24 | 355 | 0.939 | 0.925 | 0.051 | [0.049, 0.054] | 0.004 |
| Strong invariance | 1954.10 | 374 | 0.937 | 0.927 | 0.051 | [0.048, 0.053] | 0.002 |

*Note.* χ2 = chi-square statistic; *df* = degrees of freedom; CFI = Comparative fit index; TLI = Tucker-Lewis index; RMSEA = Root mean square error of approximation; 90% CI = 90% Confidence Interval.

**Latent Growth Curve Models**

Comparisons of parallel process latent growth curve modeling (PP-LGCM) showed that the quadratic model (S-Bχ2 = 57.14; *df* = 45; CFI = 0.994; TLI = 0.991; RMSEA = 0.01; 90% CI=0.000-0.022) fit the data better than the linear model (S-Bχ2 = 145.07; *df* = 58; CFI = 0.954; TLI = 0.948; RMSEA = 0.03; 90% CI=0.024-0.036) for internalizing and externalizing problems; this finding was also supported by the results of the Satorra-Bentler scaled chi-square difference tests (S-BΔχ2 (13) = 90.58, *p* < 0.001). Thus, the quadratic model appeared to better reflect the overall trend of internalizing and externalizing problems over time.

Internalizing problems’ estimated variances in the intercept (*σ*2*i*= 0.056, *p* < 0.001), slope factor (*σ*2*s*= 0.018, *p* < 0.001) and quadratic factor (*σ*2*q*= 0.001, *p* < 0.001) were significantly different from zero, and externalizing problems’ estimated variances in the intercept (*σ*2*i*= 0.008, *p* < 0.001), slope factor (*σ*2*s*= -0.001, *p* > 0.05) and quadratic factor (*σ*2*q*=0.000, *p* > 0.05) were significantly different from zero, suggesting individual differences in pathways of internalizing and externalizing problems, although the variance of the slope and quadratic factor of externalizing problems were not significant.

After determining the optimal (non-linear) form of the normative trends in internalizing and externalizing problems, a multi-group analysis was conducted to examine gender differences in the overall trajectory. The results of multi-group analysis revealed statistically significant gender differences in growth parameters between the model in which these were constrained to be equal, and a model in which they were allowed to vary (Wald test: S-BΔχ2 (6) = 134.77, *p* < 0.001).

**Parallel-Process Latent Class Growth Model (PP-LCGM)**

In **Table S4**, we have displayed the four and three classes according to their mean T-score at each time point for boys and girls, respectively, to facilitate interpretation.

**Table S4**

T score of internalizing and externalizing problems

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Internalizing problems | | | | | |  | Externalizing problems | | | | | |
|  | T1 | T2 | T3 | T4 | T5 | T6 |  | T1 | T2 | T3 | T4 | T5 | T6 |
| **Boys** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class 1 | 48.70 | 48.34 | 47.35 | 47.13 | 46.42 | 46.24 |  | 48.86 | 47.91 | 47.68 | 47.30 | 47.00 | 47.19 |
| Class 2 | 50.88 | 49.16 | 48.41 | 48.18 | 46.93 | 46.22 |  | 61.88 | 62.72 | 63.26 | 61.41 | 63.83 | 62.44 |
| Class 3 | 57.05 | 56.90 | 57.70 | 60.78 | 65.51 | 71.49 |  | 52.91 | 53.39 | 52.83 | 53.71 | 54.09 | 53.08 |
| Class 4 | 59.54 | 66.18 | 71.35 | 64.76 | 61.83 | 51.39 |  | 54.15 | 57.90 | 58.10 | 55.76 | 55.82 | 56.57 |
| **Girls** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class 1 | 47.87 | 47.43 | 47.14 | 47.45 | 48.16 | 48.95 |  | 46.67 | 46.55 | 46.59 | 46.96 | 47.11 | 47.14 |
| Class 2 | 51.76 | 49.59 | 52.48 | 51.30 | 52.68 | 53.28 |  | 56.89 | 61.91 | 64.56 | 68.00 | 64.65 | 65.71 |
| Class 3 | 57.36 | 62.31 | 65.91 | 69.04 | 68.64 | 68.61 |  | 48.37 | 47.67 | 46.59 | 49.04 | 47.14 | 47.86 |

*Note.* T1-T6 represents Time 1-Time 6 respectively.