Supplemental Figure 1. Breakdown of analyses sample sizes

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| Supplemental Table 1. Latent Profile Analyses Model Fit Indices at ages 6/7 and 10/11 years | | | | |
| *Latent Profile Analysis 1 – Age 6/7* | | | | |
| Model | BLRT | BIC | Entropy | Smallest profile |
| 1 profile | -- | 143176.99 | -- | -- |
| 2 profile | P<0.001 | 136826.92 | 0.90 | 14.4% |
| 3 profile | P<0.001 | 134878.59 | 0.89 | 4.9% |
| 4 profile | P<0.001 | 133491.72 | 0.87 | 3.6% |
| 5 profile | P<0.001 | 132589.90 | 0.87 | <1.0% |
| 6 profile | P<0.001 | 131867.10 | 0.87 | 1.6% |
| 7 profile | P<0.001 | 130862.44 | 0.90 | <1.0% |
| *Latent Profile Analysis 2 – Age 10/11* | | | | |
| Model | BLRT | BIC | Entropy | Smallest profile |
| 1 profile | -- | 119628.25 | -- | -- |
| 2 profile | P<0.001 | 113505.99 | 0.93 | 12.0% |
| 3 profile | P<0.001 | 111755.74 | 0.84 | 9.4% |
| 4 profile | P<0.001 | 110174.68 | 0.87 | 3.9% |
| 5 profile | P<0.001 | 109528.39 | 0.87 | 2.9% |
| 6 profile | Model failed to converge | -- | -- | -- |
| BIC: Bayesian information criterion  BLRT: Bootstrapped likelihood-ratio testing | | | | |

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| Supplemental Table 2. Frequency of transition groups and corresponding transition clusters, from latent profile at age 6/7 to age 10/11 years | |
| *(\*)Transition Group* | *Weighted %* |
| (1)“Low” to “Low” | 60.8 |
| (3)“Low” to “Moderate” | 4.7 |
| (3)“Low” to “High” | 0.7 |
| (3)“Low” to “Hyperactivity/internalizing” | 4.5 |
| (2)“Moderate” to “Low” | 9.4 |
| (4)“Moderate” to “Moderate” | 3.9 |
| (5)“Moderate” to “High” | 1.2 |
| (5)“Moderate” to “Hyperactivity/internalizing” | 1.5 |
| (2)“High” to “Low” | 0.9 |
| (5)“High” to “Moderate” | 0.9 |
| (4)“High” to “High” | 1.2 |
| (5)“High” to “Hyperactivity/internalizing” | 0.8 |
| (2)“Hyperactivity/internalizing” to “Low” | 5.5 |
| (5)“Hyperactivity/internalizing” to “Moderate” | 1.3 |
| (5)“Hyperactivity/internalizing” to “High” | 0.4 |
| (4)“Hyperactivity/internalizing” to “Hyperactivity/internalizing” | 2.5 |
| Hyperactivity/internalizing: Hyperactivity/inattention and internalizing  [1] Stable low problem behavior  [2] Decreasing to low symptoms  [3] Increasing from low to symptoms  [4] Homotypic  [5] Heterotypic | |

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| Supplemental Table 3. Unadjusted and adjusted logistic regression models showing the association between latent profile(s) and transition clusters on suicidal thoughts in sensitivity analysis where those not responding to suicidal thought questions were coded as “no” | | | | | | |
|  | *Suicidal Thoughts* | | | | | |
| Unadjusted | | | Adjusted\* | | |
| OR | Upper CI | Lower CI | OR | Upper CI | Lower CI |
| LPA age 6/7  Reference:  “Low” |  | | |  | | |
| Moderate | 1.14 | 0.93 | 1.41 | 1.17 | 0.93 | 1.47 |
| High | 2.08 | 1.51 | 2.88 | 2.32 | 1.63 | 3.31 |
| Hyperactivity/internalizing | 1.33 | 1.05 | 1.70 | 1.27 | 0.97 | 1.65 |
| LPA age 10/11  Reference:  “Low” |  | | |  | | |
| Moderate | 1.92 | 1.54 | 2.38 | 1.85 | 1.46 | 2.34 |
| High | 1.55 | 1.06 | 2.26 | 1.73 | 1.17 | 2.57 |
| Hyperactivity/internalizing | 1.86 | 1.47 | 2.35 | 1.81 | 1.41 | 2.33 |
| Transition clusters  Reference:  “Stable low” |  | | |  | | |
| Decreasing to low | 1.00 | 0.79 | 1.27 | 1.08 | 0.84 | 1.38 |
| Low to problems | 1.68 | 1.30 | 2.16 | 1.83 | 1.41 | 2.37 |
| Homotypic | 2.03 | 1.56 | 2.63 | 1.97 | 1.49 | 2.61 |
| Heterotypic | 1.83 | 1.36 | 2.45 | 1.90 | 1.40 | 2.59 |
| CI: confidence interval  Hyperactivity/internalizing: Hyperactivity/inattention & Internalizing  LPA: latent profile analysis – profiles of internalizing and externalizing symptoms  n: sample size  OR: odds ratio  \* Adjusted for gender, socioeconomic status, stressful life events, high parental depressive symptoms, high parental alcohol use, and non-two parent household | | | | | | |