|  |
| --- |
| **Supplementary Materials****Table S.1.** Synopsis of Confirmatory Factor Analysis Models Testing 17 Items of the Preschool CBCL and Comparing Model Fit via the DIFFTEST Procedure for a One-Factor Model, Three Two-Factor Models, and a Three-Factor Model for Parent Report at Age 2 |
| **Model Description** | *χ2* | *df* | *p value* | *CFI* | *RMSEA* |
| 1 Factor | 494.564 | 119 | *p<*.001 | 0.880 | 0.101 |
| 2 Factor (CU vs. other) | 452.787 | 118 | *p<*.001 | 0.893 | 0.096 |
| 2 Factor (ODD vs. other) | 440.458 | 118 | *p<*.001 | 0.897 | 0.094 |
| 2 Factor (ADHD vs. other) | 380.545 | 118 | *p<*.001 | 0.916 | 0.085 |
| 3 Factor (CU, ODD, ADHD) | 356.935 | 116 | *p<*.001 | 0.923 | 0.082 |
| **Corrected chi-square differences test (DIFFTEST)** | *Δχ2* | *Δdf* | *p value* |
| 3 Factor vs. 1 Factor | 99.403 | 3 | *p<*.001 |
| 3 Factor vs. 2 Factor (CU vs. other) | 66.485 | 2 | *p<*.001 |
| 3 Factor vs. 2 Factor (ODD vs. other) | 57.554 | 2 | *p<*.001 |
| 3 Factor vs. 2 Factor (ADHD vs. other) | 21.537 | 2 | *p<*.001 |

*Note.* CU=callous-unemotional behaviors; ODD=oppositional defiant behaviors; ADHD=attention deficit/hyperactive behaviors.

|  |
| --- |
| **Table S.2.** Synopsis of Confirmatory Factor Analysis Models Testing 17 Items of the Preschool CBCL and Comparing Model Fit via the DIFFTEST Procedure for a One-Factor Model, Three Two-Factor Models, and a Three-Factor Model for Parent Report at Age 3 |
| **Model Description** | *χ2* | *df* | *p value* | *CFI* | *RMSEA* |
| 1 Factor | 504.715 | 119 | *p<*.001 | 0.889 | 0.104 |
| 2 Factor (CU vs. other) | 462.817 | 118 | *p<*.001 | 0.901 | 0.099 |
| 2 Factor (ODD vs. other) | 418.488 | 118 | *p<*.001 | 0.914 | 0.092 |
| 2 Factor (ADHD vs. other) | 394.343 | 118 | *p<*.001 | 0.921 | 0.089 |
| 3 Factor (CU, ODD, ADHD) | 357.479 | 116 | *p<*.001 | 0.931 | 0.084 |
| **Corrected chi-square differences test (DIFFTEST)** | *Δχ2* | *Δdf* | *p value* |
| 3 Factor vs. 1 Factor | 105.140 | 3 | *p<*.001 |
| 3 Factor vs. 2 Factor (CU vs. other) | 67.521 | 2 | *p<*.001 |
| 3 Factor vs. 2 Factor (ODD vs. other) | 45.099 | 2 | *p<*.001 |
| 3 Factor vs. 2 Factor (ADHD vs. other) | 32.813 | 2 | *p<*.001 |

*Note.* CU=callous-unemotional behaviors; ODD=oppositional defiant behaviors; ADHD=attention deficit/hyperactive behaviors.

**No guilt after misbehavior**

**Punishment doesn’t change behavior**

**Unresponsive to affection**

**Shows little affection**

**Shows too little fear**

**Defiant**

**Disobedient**

**Angry**

**Stubborn**

**Has temper/tantrums**

**Uncooperative**

**Can’t concentrate**

**Can’t sit still**

**Demands must be met**

**Can’t wait**

**‘Gets into’ things**

**Shifts attention**

**Oppositional behavior**

**ADHD behavior**

**CU**

**behavior**

.85

.80

.61

.72

.63

.78

.69

.82

.77

.77

.72

.67

.80

.75

.66

.74

.85

.44

.46

.64

**Figure S.1.** Factor structure showing best-fitting three-factor model of parent-reported early child behavior problems showing separate oppositional, ADHD, and CU behavior factors at 24 months. All factor loadings and interfactor correlations are significant at *p* < .001.

**No guilt after misbehavior**

**Punishment doesn’t change behavior**

**Unresponsive to affection**

**Shows little affection**

**Shows too little fear**

**Defiant**

**Disobedient**

**Angry**

**Stubborn**

**Has temper/tantrums**

**Uncooperative**

**Can’t concentrate**

**Can’t sit still**

**Demands must be met**

**Can’t wait**

**‘Gets into’ things**

**Shifts attention**

**Oppositional behavior**

**ADHD behavior**

**CU**

**behavior**

.84

.88

.66

.68

.70

.79

.73

.79

.79

.72

.73

.65

.76

.70

.70

.73

.90

.70

.52

.70

**Figure S.2.** Factor structure showing best-fitting three-factor model of parent-reported early child behavior problems showing separate oppositional, ADHD, and CU behavior factors at 36 months. All factor loadings and interfactor correlations are significant at *p* < .001.