Supplementary Information

Table S1. ................................................................................................................................. 2

SPSS Syntax Used for Dimensional Symptom Scores and Research Diagnoses ....................... 3
Table S1.

*Sensitivity analysis correlations with children with anxiety removed from the sample (n = 93)*

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Age</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. BPVS</td>
<td>.560**</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Inatt</td>
<td>.036</td>
<td>-.066</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Hyp-Imp</td>
<td>.002</td>
<td>-.109</td>
<td>.817**</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. AWMA</td>
<td>-.142</td>
<td>.114</td>
<td>-.063</td>
<td>.090</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. PSM</td>
<td>.227*</td>
<td>.181</td>
<td>-.263*</td>
<td>-.147</td>
<td>.189</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. RI RT</td>
<td>-.232*</td>
<td>-.391**</td>
<td>.211*</td>
<td>.089</td>
<td>-.131</td>
<td>-.134</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. RI % errors</td>
<td>-.257*</td>
<td>-.292**</td>
<td>.206*</td>
<td>.108</td>
<td>-.362**</td>
<td>-.269**</td>
<td>.489**</td>
<td>--</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. RI Var</td>
<td>-.261*</td>
<td>-.332**</td>
<td>.330**</td>
<td>.256*</td>
<td>-.167</td>
<td>-.173</td>
<td>.579**</td>
<td>.390**</td>
<td>--</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. VM</td>
<td>.081</td>
<td>-.032</td>
<td>.186</td>
<td>.087</td>
<td>-.224*</td>
<td>-.055</td>
<td>.310**</td>
<td>.463**</td>
<td>.125</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>11. SA</td>
<td>-.191</td>
<td>-.129</td>
<td>.243*</td>
<td>.154</td>
<td>-.051</td>
<td>-.363**</td>
<td>.214*</td>
<td>.241*</td>
<td>.194</td>
<td>.536**</td>
<td>--</td>
</tr>
<tr>
<td>12. VM Var</td>
<td>-.232*</td>
<td>-.204</td>
<td>.233*</td>
<td>.155</td>
<td>-.157</td>
<td>-.287**</td>
<td>.380**</td>
<td>.399**</td>
<td>.299**</td>
<td>.589**</td>
<td>.830**</td>
</tr>
</tbody>
</table>

*Note.* *p < .05,* **p < .01. Inatt = inattention. Hyp-Imp = Hyperactivity-Impulsivity. AWMA = Automated Working Memory Assessment. PSM= Picture Sequence Memory. RI = Response Inhibition. RT = Response Time. Var = Variability. VM = Visuomotor control. VM Var = visuomotor control variability. SA=Sustained Attention.
SPSS Syntax Used for Dimensional Symptom Scores and Research Diagnoses

***ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD)***

**Overall diagnosis Conservative - adhdDiagnosis

***ADHD - INATTENTIVE

*ADHD-INATTENTIVE SYMPTOM SCORE (CONSERVATIVE) = inattSymptomScoreCon

***ADHD - HYPERACTIVE/IMPULSIVE

*ADHD-HYPERACTIVE/IMPULSIVE SYMPTOM SCORE (CONSERVATIVE) = hypimpSymptomScoreCon

***ADHD - COMBINED

*ADHD-COMBINED SYMPTOM SCORE (CONSERVATIVE) = SymptomScoreCon /

compute mis_adhd = missing(p1j1).
execute.

*A) ADHD-INATTENTIVE CONSERVATIVE score - symptom count past 6 months.
*Those who do not pass the screening question will score 0 here.
*as conservative, item endorsed if score = 2 'a lot more than others'
*six (or more) of the following symptoms of inattention have persisted for at least 6 months
*to a degree that is maladaptive and inconsistent with developmental level:

compute inattConscore = 0.
if (mis_adhd eq 1) inattConscore = 99.
mis val inattConscore (99).
if (p1j4a = 2) inattConscore = inattConscore + 1.
if (p1j4b = 2) inattConscore = inattConscore + 1.
if (p1j4c = 2) inattConscore = inattConscore + 1.
if (p1j4d = 2) inattConscore = inattConscore + 1.
if (p1j4e = 2) inattConscore = inattConscore + 1.
if (p1j4f = 2) inattConscore = inattConscore + 1.
if (p1j4g = 2) inattConscore = inattConscore + 1.
if (p1j4h = 2) inattConscore = inattConscore + 1.
if (p1j4i = 2) inattConscore = inattConscore + 1.
execute.
compute inattentionCon = 0.
if (mis_adhd eq 1) inattentionCon = 99.
mis val inattentionCon (99).
IF (inattConscore >= 6) inattentionCon=1.
EXECUTE.
IF (inattConscore < 6) inattentionCon=0.
EXECUTE.

*A) ADHD-HYPERACTIVE/IMPULSIVE

compute hypimpConscore = 0.
if (mis_adhd eq 1) hypimpConscore = 99.
mis val hypimpConscore (99).
if (p1j2a = 2) hypimpConscore = hypimpConscore+1.
if (p1j2b = 2) hypimpConscore = hypimpConscore+1.
if (p1j2c = 2) hypimpConscore = hypimpConscore+1.
if (p1j2d = 2) hypimpConscore = hypimpConscore+1.
if (p1j2e = 2) hypimpConscore = hypimpConscore+1.
if (p1j3a = 2) hypimpConscore = hypimpConscore+1.
if (p1j3b = 2) hypimpConscore = hypimpConscore+1.
if (p1j3c = 2) hypimpConscore = hypimpConscore+1.
if (p1j3d = 2) hypimpConscore = hypimpConscore+1.
execute.

compute hypimpCon = 0.
if (mis_adhd eq 1) hypimpCon = 99.
mis val hypimpCon (99).
IF (hypimpConscore >= 6) hypimpCon=1.
EXECUTE.
IF (hypimpConscore < 6) hypimpCon=0.
EXECUTE.

*B) Symptoms are present across multiple settings

**INATTENTIVENESS

compute inattentionPervasiveness = 0.
if (mis_adhd eq 1) inattentionPervasiveness = 99.
mis val inattentionPervasiveness (99).
IF (p1j5b = 2) inattentionPervasiveness=1.
EXECUTE.
*B) HYPERACTIVITY/IMPULSIVE Symptoms are present across multiple settings

compute hyplmpPervasiveness = 0.
if (mis_adhd eq 1) hyplmpPervasiveness = 99.
mis val hyplmpPervasiveness (99).
IF (p1j5a = 2 OR p1j5c = 2) hyplmpPervasiveness = 1.
EXECUTE.

*C) Clear evidence of clinically significant impairment in social, academic or occupational functioning
*CONSERVATIVE presence of impairment

compute adhdInterferenceCon = 0.
if (mis_adhd eq 1) adhdInterferenceCon = 99.
mis val adhdInterferenceCon (99).
if (p1j9a = 3) adhdInterferenceCon = adhdInterferenceCon + 1.
if (p1j9b = 3) adhdInterferenceCon = adhdInterferenceCon + 1.
if (p1j9c = 3) adhdInterferenceCon = adhdInterferenceCon + 1.
if (p1j9d = 3) adhdInterferenceCon = adhdInterferenceCon + 1.
execute.

compute adhdInterferenceConPresent = 0.
if (mis_adhd eq 1) adhdInterferenceConPresent = 99.
mis val adhdInterferenceConPresent (99).
if (adhdInterferenceCon >= 1) adhdInterferenceConPresent = 1.
execute.

* DIAGNOSIS - INATTENTIVE, presence of A, B and C

compute InattDiagCriteriaCon = 0.
if (mis_adhd eq 1) InattDiagCriteriaCon = 99.
mis val InattDiagCriteriaCon (99).
if (inattentionCon = 1 AND inattentionPervasiveness = 1 AND adhdInterferenceConPresent)
InattDiagCriteriaCon = 1.
EXECUTE.

* DIAGNOSIS - HYP/IMPULSIVE, presence of A, B and C

compute HypImpDiagCriteriaCon = 0.
if (mis_adhd eq 1) HypImpDiagCriteriaCon = 99.
mis val HypImpDiagCriteriaCon (99).
if (hypImpCon = 1 AND hypImpPervasiveness = 1 AND adhdInterferenceConPresent) HypImpDiagCriteriaCon = 1.
EXECUTE.

*ADHD DIAGNOSIS

compute adhdDiagnosis = 0.
if (mis_adhd eq 1) adhdDiagnosis = 99.
mis val adhdDiagnosis (99).
if (InattDiagCriteriaCon = 1 AND HypImpDiagCriteriaCon = 0) adhdDiagnosis = 1.
if (InattDiagCriteriaCon = 0 AND HypImpDiagCriteriaCon = 1) adhdDiagnosis = 2.
if (InattDiagCriteriaCon = 1 AND HypImpDiagCriteriaCon = 1) adhdDiagnosis = 3.
EXECUTE.

*SYMPTOM SCORE

*Inatt

compute inattSymptomScoreCon = inattConscore.
if (mis_adhd eq 1) inattSymptomScoreCon = 99.
mis val inattSymptomScoreCon (99).
EXECUTE.

*Hyp

compute hypimpSymptomScoreCon = hypimpConscore.
if (mis_adhd eq 1) hypimpSymptomScoreCon = 99.
mis val hypimpSymptomScoreCon (99).
EXECUTE.

*SEPARATION ANXIETY DIAGNOSIS CONSERVATIVE = sepConDiag
*SEPARATION ANXIETY SYMPTOM SCORE (CONSERVATIVE) = sepSymptomScore

***SEPARATION ANXIETY*******.

*A) Three symptoms are required

compute mis_sep = missing(p1a2).
execute.
compute DAWBAsepAnxietyConservative = 0.
if (mis_sep eq 1) DAWBAsepAnxietyConservative =99.
mis val DAWBAsepAnxietyConservative (99).
if (p1a3a eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3b eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3c eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3d eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3e eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3f eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3g eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3i eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3j eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
if (p1a3k eq 2) DAWBAsepAnxietyConservative = DAWBAsepAnxietyConservative+1.
fre var DAWBAsepAnxietyConservative.

RECODE DAWBAsepAnxietyConservative (99=SYSMIS) (ELSE=COPY).
EXECUTE.

IF (p1a2 = 0 & p1emotion < 4) DAWBAsepAnxietyConservative =0.
EXECUTE.

if (mis_sep eq 1) DAWBAsepAnxietyConservative = 99.
mis val DAWBAsepAnxietyConservative (99).

IF (DAWBAsepAnxietyConservative  >= 3) DAWBAsepAnxietyConservativeSymp=1.
EXECUTE.
IF (DAWBAsepAnxietyConservative < 3) DAWBAsepAnxietyConservativeSymp=0.
EXECUTE.

* B) The worries about separation have been present for at least 4 weeks

IF (p1a4 = 1) DAWBA4weeks = 1.
EXECUTE.
IF (p1a4 = 0) DAWBA4weeks = 0.
EXECUTE.
if (mis_sep eq 1) DAWBA4weeks = 99.
mis val DAWBA4weeks(99).
execute.
*C) Presence of clinically significant distress/ impairment

compute sepImpactCon=0.
if (p1a6 >=3) sepImpactCon = sepImpactCon+1.
if (p1a7a >=3) sepImpactCon = sepImpactCon+1.
if (p1a7b >= 3) sepImpactCon = sepImpactCon+1.
if (p1a7c >= 3) sepImpactCon = sepImpactCon+1.
if (p1a7d >= 3) sepImpactCon = sepImpactCon+1.
if (mis_sep eq 1) sepImpactCon = 99.
mis val sepImpactCon(99).
execute.

IF (sepImpactCon  >= 1) sepImpactConScore = 1.
EXECUTE.
IF (sepImpactCon < 1) sepImpactConScore = 0.
EXECUTE.
if (mis_sep eq 1) sepImpactConScore = 99.
mis val sepImpactConScore(99).
execute.

fre var sepImpactConScore.

*FOR DIAGNOSIS, the presence of A, B, and C is required.

COMPUTE sepConDiagTotal=0.
if (DAWBAsepAnxietyConservativeSymp = 1) sepConDiagTotal = sepConDiagTotal+1.
if (DAWBA4weeks = 1) sepConDiagTotal = sepConDiagTotal+1.
if (sepImpactConScore = 1) sepConDiagTotal = sepConDiagTotal+1.
EXECUTE.
if (mis_sep eq 1) sepConDiagTotal = 99.
mis val sepConDiagTotal(99).
execute.

compute sepConDiag = 0.
IF (sepConDiagTotal = 3) sepConDiag = 1.
IF (sepConDiagTotal < 3) sepConDiag =0.
execute.
IF(mis_sep eq 1) sepConDiag = 99.
mis val sepConDiag (99).
execute.

** Separation anxiety - symptom score

compute sepSymptomScore = DAWBAsepAnxietyConservative.
execute.
if (mis_sep eq 1) sepSymptomScore = 99.
mis val sepSymptomScore (99).
execute.