Supplementary Tables

Supplementary Table 1. Comparisons of the included and excluded participants based on child and family characteristics.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variables | | Included (n=2143) | Excluded (n=874) | | P-value for group differences |
| ***Child Characteristics*** | | | | | |
| Male Sex, No.% | 1060 (49.7) | | | 534 (60.5) < .001 | |
| Externalizing and internalizing problems | | | |  | |
| Low/no problems; No.% | | 1033 (48.4) | 336 (38.1) | | < .001 |
| Externalizing; No.% | | 601 (28.2) | 281 (31.8) | |
| Internalizing; No.% | | 249 (11.7) | 105 (11.9) | |
| Comorbid; No.% | | 251 (11.8) | 161 (18.2) | |
| ***Family characteristics*** | | | | | |
| Mother’s education (years); Mean (sd) | | 11.74 (2.63) | 11.64 (2.56) | | .375 |
| Mother’s occupational prestige; Mean (sd) | | 0.01 (1.00) | -0.03 (1.00) | | .254 |
| Mother’s age<21; No.% | | 195 (9.2) | 86 (9.8) | | .622 |
| Family Non-intact; No.% | | 187 (12.2) | 78 (12.9) | | .668 |
| Positive attitude; Mean(sd) | | 0.02 (1.00) | -0.05 (1.00) | | .078 |
| Negative attitude; Mean(sd) | | -0.02 (0.99) | 0.05 (1.02) | | .084 |

*Note*. Maternal occupational prestige and parenting attitudes were converted into Z-scores (mean=0; standard deviation=1) to ease interpretation.

Supplementary Table 2. Social behavior questionnaire confirmatory factor analysis indices of model it from 6-12 years old.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Age | Chi-Square | DF | P-Value | RMSEA | CFI | TLI |
| 6 | 3226.196 | 134 | <.001 | 0.09 | 0.959 | 0.953 |
| 7 | 2052.65 | 134 | <.001 | 0.08 | 0.96 | 0.96 |
| 8 | 2481.663 | 134 | <.001 | 0.09 | 0.95 | 0.94 |
| 9 | 1626.599 | 134 | <.001 | 0.08 | 0.95 | 0.94 |
| 10 | 2536.773 | 134 | <.001 | 0.09 | 0.94 | 0.93 |
| 11 | 2527.425 | 134 | <.001 | 0.09 | 0.94 | 0.93 |
| 12 | 2183.082 | 134 | <.001 | 0.08 | 0.94 | 0.93 |

*Note.* DF = Degrees of freedom; RMSEA= Root mean square error of approximation; CFI = comparative fit index; TLI = Tucker-Lewis Index.

Supplementary Table 3. Factor loadings of externalizing and internalizing items of the social behavior questionnaire from 6-12 years old.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Externalizing | | | | | | | Internalizing | | | | | | |
| Item | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Restless. Runs about or jumps up and doesn’t keep still | 0.90 | 0.90 | 0.88 | 0.84 | 0.86 | 0.87 | 0.84 |  |  |  |  |  |  |  |
| Squirmy, fidgety child | 0.89 | 0.88 | 0.86 | 0.83 | 0.86 | 0.87 | 0.85 |  |  |  |  |  |  |  |
| Destroys own and other’s belongings | 0.84 | 0.81 | 0.76 | 0.75 | 0.78 | 0.79 | 0.77 |  |  |  |  |  |  |  |
| Fights other children | 0.88 | 0.90 | 0.89 | 0.90 | 0.84 | 0.87 | 0.84 |  |  |  |  |  |  |  |
| Not much liked by other children | 0.75 | 0.75 | 0.74 | 0.75 | 0.76 | 0.71 | 0.67 |  |  |  |  |  |  |  |
| Irritable, quick to fly off the handle | 0.82 | 0.80 | 0.79 | 0.80 | 0.84 | 0.80 | 0.81 |  |  |  |  |  |  |  |
| Is disobedient | 0.84 | 0.85 | 0.85 | 0.84 | 0.81 | 0.85 | 0.83 |  |  |  |  |  |  |  |
| Tells lies | 0.74 | 0.77 | 0.79 | 0.81 | 0.79 | 0.79 | 0.80 |  |  |  |  |  |  |  |
| Bullies others | 0.92 | 0.94 | 0.91 | 0.92 | 0.89 | 0.87 | 0.85 |  |  |  |  |  |  |  |
| Does not share material used for task in the classroom | 0.80 | 0.66 | 0.60 | 0.61 | 0.62 | 0.67 | 0.64 |  |  |  |  |  |  |  |
| Blames others | 0.83 | 0.83 | 0.85 | 0.86 | 0.87 | 0.86 | 0.87 |  |  |  |  |  |  |  |
| Inconsiderate of others | 0.84 | 0.87 | 0.81 | 0.80 | 0.81 | 0.8 | 0.79 |  |  |  |  |  |  |  |
| Kicks, bites or hits other children | 0.90 | 0.92 | 0.90 | 0.88 | 0.86 | 0.84 | 0.84 |  |  |  |  |  |  |  |
| Is worried. Worries about many things |  |  |  |  |  |  |  | 0.91 | 0.87 | 0.83 | 0.81 | 0.75 | 0.79 | 0.80 |
| Tends to do things on his/her own, rather solitary |  |  |  |  |  |  |  | 0.36 | 0.47 | 0.50 | 0.45 | 0.56 | 0.53 | 0.55 |
| Appears to be miserable, unhappy distressed |  |  |  |  |  |  |  | 0.80 | 0.86 | 0.83 | 0.86 | 0.85 | 0.86 | 0.88 |
| Tends to be fearful or afraid of new things or new situations |  |  |  |  |  |  |  | 0.84 | 0.79 | 0.71 | 0.70 | 0.67 | 0.68 | 0.72 |
| Cries easily |  |  |  |  |  |  |  | 0.77 | 0.71 | 0.8 | 0.78 | 0.79 | 0.77 | 0.78 |

Supplementary Table 4. Emotional climate scale confirmatory factor analysis indices of model fit.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chi-Square | DF | P-Value | RMSEA | CFI | TLI |
| 983.153 | 118 | <.001 | 0.070 | 0.912 | 0.899 |

*Note.* DF = Degrees of freedom; RMSEA= Root mean square error of approximation; CFI = comparative fit index; TLI = Tucker-Lewis Index.

Supplementary Table 5. Factor loadings of negative and positive parenting attitude items of the emotional climate scale.

|  |  |  |
| --- | --- | --- |
| Items | Positive Attitudes | Negative Attitudes |
| I enjoy showing the latest pictures of my child to my friends. | 0.46 |  |
| I like to be with my child. | 0.83 |  |
| Having a child to care for is a lot of fun. | 0.81 |  |
| It is very interesting to spend time watching my child. | 0.70 |  |
| When I have free time, I’d rather be with my child than read a book. | 0.54 |  |
| I really enjoy talking about my child. | 0.58 |  |
| It makes me happy just to think of the time my child and I spend together. | 0.79 |  |
| I thought that children were supposed to be much happier than my child has turned out to be. |  | 0.44 |
| It’s hard to be stuck at home with a child. |  | 0.35 |
| I don’t tolerate temper tantrums. |  | 0.22 |
| I find it really irritating when all other women can talk about is their children. |  | 0.62 |
| My child often upsets me. |  | 0.37 |
| I think my child should comply with all my requests. |  | 0.44 |
| I look forward to the time when my child requires less care and attention from  me. |  | 0.68 |
| Having a child has been a very large burden for me. |  | 0.77 |
| When I’ve finished my day’s work, I need time away from my child. |  | 0.53 |
| I have tried to teach my child early who makes the decisions in our family. |  | 0.82 |

Supplementary Table 6. Indices of fit from the multitrajectory model.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N classes | logLikelihood | k | AIC | BIC | VLM | BLRT | Entropy | Class 1 | Class 2 | Class 3 | Class 4 | Class 5 |
| 1 | -33779.8 | 20 | 67599.52 | 67719.76 |  |  | 1 | 100 |  |  |  |  |
| 2 | -30013.8 | 27 | 60081.66 | 60243.98 | <.001 | <.001 | 0.88 | 0.64 | 0.35 |  |  |  |
| 3 | -29211.8 | 34 | 58491.65 | 58696.06 | <.001 | <.001 | 0.82 | 0.48 | 0.15 | 0.35 |  |  |
| **4** | **-28831.2** | **41** | **57744.34** | **57990.84** | **0.0039** | **<.001** | **0.81** | **0.11** | **0.45** | **0.13** | **0.29** |  |
| 5 | -28617.7 | 48 | 57331.46 | 57620.04 | 0.0136 | <.001 | 0.78 | 0.21 | 0.12 | 0.38 | 0.19 | 0.08 |

*Note.* AIC = Akaike information criterion; BIC = Bayesian information criterion; VLMR = Vuong-Lo-Mendell-Rubin test; BLRT = bootstrap likelihood ratio test

Supplementary Table 7. Specific associations of suicidal ideation (without attempts) and attempts by 22 years old with childhood externalizing, internalizing and comorbid problems during childhood in non-imputed sample (N=1,251).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Multitrajectory | Unadjusted OR (95%CI) | | | Adjusted OR (95%CI) | | |
|  | Suicide Attempts vs. Non-suicidal | Suicidal Ideation vs. Non-suicidal | Suicide Attempts vs. Suicidal Ideation | Suicide Attempts vs. Non-suicidal | Suicidal Ideation vs. Non-suicidal | Suicide Attempts vs. Suicidal Ideation |
| **Whole Sample** |  |  |  |  |  |  |
| Low/no Problem | 1 [Reference] | 1 [Reference] | 1 [Reference] | 1 [Reference] | 1 [Reference] | 1 [Reference] |
| Externalizing | 1.61 (1.13-2.30) | 0.89 (0.66-1.19) | 1.82 (1.18-2.81) | 2.10 (1.32-3.33) | 1.05 (0.71-1.56) | 1.99 (1.14-3.49) |
| Internalizing | 2.30 (1.49-3.56) | 1.39 (0.96-2.01) | 1.66 (0.98-2.80) | 2.49 (1.45-4.30) | 1.70 (1.09-2.67) | 1.46 (0.78-2.75) |
| Comorbid | 2.18 (1.39-3.40) | 1.17 (0.79-1.73) | 1.86 (1.08-3.21) | 3.72 (2.06-6.71) | 1.67 (0.99-2.79) | 2.23 (1.10-4.54) |

*Note.* Adjusted model controlled for sex, maternal education, occupational prestige, age at birth, family structure and negative parenting attitudes.

Association of comorbid problems with suicide attempts (vs. non-suicidal) was stronger in females than males (p=<0.001): in females (unadjusted OR=5.36, CI=2.78-10.3, p=<0.001); in males (unadjusted OR=1.94, CI=0.95-3.96, p=.059). All other sex by trajectory group interactions were non-significant for the outcomes of suicidal ideation and suicide attempts (vs. non-suicidal).