**Appendix**

Child Behavior Checklist Scoring

Anxious/depressive = cbcl\_q14\_p + cbcl\_q29\_p + cbcl\_q30\_p + cbcl\_q31\_p + cbcl\_q32\_p + cbcl\_q33\_p + cbcl\_q35\_p + cbcl\_q45\_p + cbcl\_q50\_p + cbcl\_q52\_p + cbcl\_q71\_p + cbcl\_q112\_p

Withdrawn/depressed = cbcl\_q05\_p + cbcl\_q42\_p + cbcl\_q65\_p + cbcl\_q69\_p + cbcl\_q75\_p + cbcl\_q102\_p + cbcl\_q103\_p + cbcl\_q111\_p

Somatic = cbcl\_q49\_p + cbcl\_q51\_p + cbcl\_q54\_p + cbcl\_q56a\_p + cbcl\_q56b\_p + cbcl\_q56c\_p + cbcl\_q56d\_p + cbcl\_q56e\_p + cbcl\_q56f\_p + cbcl\_q56g\_p

Social = cbcl\_q11\_p + cbcl\_q12\_p + cbcl\_q25\_p + cbcl\_q27\_p + cbcl\_q34\_p + cbcl\_q36\_p + cbcl\_q38\_p + cbcl\_q48\_p + cbcl\_q62\_p + cbcl\_q64\_p + cbcl\_q79\_p

Thought = cbcl\_q09\_p + cbcl\_q40\_p + cbcl\_q46\_p + cbcl\_q58\_p + cbcl\_q59\_p + cbcl\_q60\_p + cbcl\_q66\_p + cbcl\_q70\_p + cbcl\_q83\_p + cbcl\_q84\_p + cbcl\_q85\_p

Attention = cbcl\_q01\_p + cbcl\_q04\_p + cbcl\_q08\_p + cbcl\_q10\_p + cbcl\_q13\_p + cbcl\_q17\_p + cbcl\_q41\_p + cbcl\_q61\_p + cbcl\_q78\_p + cbcl\_q80\_p

Rule Breaking = cbcl\_q26\_p + cbcl\_q28\_p + cbcl\_q39\_p + cbcl\_q43\_p + cbcl\_q63\_p + cbcl\_q67\_p + cbcl\_q72\_p + cbcl\_q73\_p + cbcl\_q81\_p + cbcl\_q82\_p + cbcl\_q90\_p + cbcl\_q96\_p + cbcl\_q101\_p + cbcl\_q106\_p

Aggressive = cbcl\_q03\_p + cbcl\_q16\_p + cbcl\_q19\_p + cbcl\_q20\_p + cbcl\_q21\_p + cbcl\_q22\_p + cbcl\_q23\_p + cbcl\_q37\_p + cbcl\_q57\_p + cbcl\_q68\_p + cbcl\_q86\_p + cbcl\_q87\_p + cbcl\_q88\_p + cbcl\_q89\_p + cbcl\_q94\_p + cbcl\_q95\_p + cbcl\_q97\_p + cbcl\_q104\_p

|  |
| --- |
| Supplemental Table S1. Linear regression coefficients of each study variable regressed on youth age (*N* = 9,854) |
| Variable | *B* (*SE*) |
| 1. Suicidality | 0.008 (0.006) |
| 2. Internalizing | 0.005 (0.006) |
| 3. Social problems | -0.062 (0.006) \*\* |
| 4. Thought problems | -0.044 (0.006) \*\* |
| 5. Attention problems | -0.031 (0.006) \*\* |
| 6. Externalizing | -0.037 (0.006) \*\* |
| 7. Sleep problems | -0.007 (0.006) |
| 8. Family conflict | -0.033 (0.006) \*\* |
| 9. Parental monitoring | -0.104 (0.006) \*\* |
| 10. Neighborhood safety | -0.007 (0.006) |
| 11. School protective factors | -0.074 (0.006) \*\* |
| 12. Stressful life events | -0.005 (0.006) |
| 13. Material hardship | -0.036 (0.006) \*\* |
| 14. Substance use | -0.077 (0.006) \*\* |
| *Note*: Resulting residuals for each variable were saved and modeled as nodes in the panel GVAR Model. Linear modeling was used despite non-normal variables to be consistent with parametric estimation in the panel GVAR models; model selection and bootstrapping procedures increase confidence that non-normality did not bias results (Epskamp, 2020). \* *p* < 0.01, \*\**p* < 0.001. |

|  |
| --- |
| Supplemental Table S2. Number of times (out of 100) each edge was included in the Panel GVAR case-drop bootstrap resampling procedure |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Temporal network structure |
| 1. Suicidality | **92** | 8 | 0 | 7 | 17 | 5 | 0 | 4 | 1 | 0 | 1 | 2 | 0 | 0 |
| 2. Internalizing | 0 | **100** | 3 | 21 | **38** | **47** | 1 | 1 | 0 | 0 | 0 | 6 | 1 | 0 |
| 3. Social problems | 0 | 23 | **100** | 37 | 24 | **53** | 26 | 0 | 1 | 0 | 6 | 1 | 1 | 0 |
| 4. Thought problems | 3 | 15 | 16 | **100** | 23 | **62** | 11 | 0 | 0 | 0 | 1 | 0 | **66** | 0 |
| 5. Attention problems | 1 | 0 | 5 | 12 | **100** | 0 | 1 | 0 | 0 | 0 | 0 | 7 | **36** | 0 |
| 6. Externalizing | 0 | **9** | **64** | **19** | **15** | **100** | 13 | 2 | 2 | 0 | 2 | 35 | 0 | 0 |
| 7. Sleep problems | 3 | **85** | **77** | **82** | **64** | 22 | **100** | 1 | 0 | 0 | 16 | 9 | 28 | 4 |
| 8. Family conflict | 19 | **44** | 0 | 0 | 2 | **68** | 0 | **100** | **76** | 0 | **57** | 5 | 0 | 0 |
| 9. Parental monitoring | 10 | 0 | 0 | 0 | 0 | 1 | 0 | **27** | **100** | 0 | 0 | 0 | 0 | 1 |
| 10. Neighborhood safety | 15 | 0 | 0 | 6 | 3 | 22 | 5 | 1 | 0 | **100** | 3 | 0 | 1 | 0 |
| 11. School protective factors | 0 | **29** | **100** | 1 | **57** | 11 | 7 | **41** | 13 | 0 | **100** | 6 | 2 | 0 |
| 12. Stressful life events | 0 | 22 | 38 | 2 | 1 | 0 | 2 | 0 | 1 | 5 | 0 | **94** | 0 | 0 |
| 13. Material hardship | 0 | 0 | 0 | **70** | **19** | 0 | 10 | 0 | 0 | 3 | 0 | **99** | **100** | 0 |
| 14. Substance use | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 11 | 0 | 0 | **100** |
| Contemporaneous (lower triangle) and between-subjects (upper triangle) network structures |
| 1. Suicidality | NA | **91** | 22 | 18 | 36 | 14 | 6 | **87** | **31** | 13 | **94** | **76** | 8 | **94** |
| 2. Internalizing | **100** | NA | **100** | **100** | **100** | 21 | **100** | **100** | **46** | 0 | **100** | **100** | **63** | **75** |
| 3. Social problems | 1 | **100** | NA | **100** | **100** | **100** | **76** | **61** | 4 | **83** | **92** | 1 | **94** | 22 |
| 4. Thought problems | 4 | **100** | **100** | NA | **100** | **99** | **100** | 0 | 6 | **66** | 23 | 13 | 34 | 2 |
| 5. Attention problems | 11 | **100** | **100** | **100** | NA | **100** | **100** | **95** | **100** | 6 | 29 | 22 | **67** | 4 |
| 6. Externalizing | 2 | **100** | **100** | **100** | **100** | NA | **98** | **100** | **99** | 7 | 0 | **100** | 1 | **96** |
| 7. Sleep problems | 0 | **100** | **69** | **100** | **100** | **95** | NA | 3 | 35 | **57** | 27 | **84** | **100** | 17 |
| 8. Family conflict | **100** | 0 | 0 | 2 | 0 | **99** | 1 | NA | **100** | **67** | **95** | 32 | **80** | 0 |
| 9. Parental monitoring | **99** | 0 | 9 | 0 | 0 | **54** | 1 | **100** | NA | 31 | **100** | **69** | **100** | **44** |
| 10. Neighborhood safety | 0 | 0 | **44** | 1 | 1 | 33 | **97** | 0 | 0 | NA | 2 | **54** | **100** | **100** |
| 11. School protective factors | **96** | 14 | **47** | **59** | **97** | **70** | 5 | **100** | **100** | 0 | NA | **24** | **95** | **100** |
| 12. Stressful life events | 3 | **100** | **73** | 0 | 9 | 8 | **96** | 0 | 1 | 0 | 0 | NA | **100** | 4 |
| 13. Material hardship | 0 | **100** | 0 | 17 | **86** | 50 | 23 | 0 | **85** | 6 | 2 | 100 | NA | **85** |
| 14. Substance use | **100** | 0 | 0 | 0 | 0 | 0 | 23 | **54** | **55** | 0 | **100** | 0 | 0 | NA |
| *Note*: Bold values represent edges that were included in the original analysis (Tables 5-6, Figure 1). Each of the 100 bootstrapped models used a random 75% of the full analytic sample (*n* = 7,388). |



Supplemental Figure 1. Node centrality metrics for the average network structures across the100 case-dropped bootstrapped models. Each of the 100 bootstrapped models used a random 75% of the full analytic sample (*n* = 7,388). Centrality metrics are shown in the metric of *z*-scores.