**Supplementary Methods**

For the internalizing polygenic risk scores, some additional data cleaning steps were needed. Specifically, the summary statistic file from the original meta-genome-wide association study (GWAS) contained SNPs that had extreme and implausible effect size and standard error values, including betas of over +/-2,000.00 and SEs of exactly 962.8919. Further examination revealed that this problematic data is limited to those SNPs that were included only in a single GWAS (out of 3 considered in the meta-GWAS).

Because problematic data appeared to be limited to SNPs from only one GWAS and operating on the assumption that problematic values were limited to a relatively small number of SNPs rather than reflecting a pervasive error, we decided to use the greatest magnitude of effect size (positive or negative) observed for SNPs included in more than one GWAS as a threshold for screening out problematic SNPs.

The greatest magnitude of effect size among SNPs included in more than one GWAS was +/-.8593. The original internalizing meta-GWAS file contained a total of 2,821,734 SNPs. Of these, 315,109 were excluded because of effect sizes that fell outside the +/-.8593 threshold leaving a summary statistic file with a total of 2,506,625 SNPs. A large number of the excluded SNPs (312,586) also had a chromosome and position listed as ‘NA’, and these represented the vast majority of extreme/incorrect effect sizes and SEs (they also would have been excluded from our original scores), leaving a total of 2523 SNPs that had a valid chromosome and position but an effect size outside the threshold.

However, it should be noted that most of these would not have been included in our scores to begin with, due to either lack of overlap or having *p* values greater than .10. Screening out all values outside the +/-.8593 threshold results in the loss of 1,123 SNPs that both overlap with our data file and have *p* values equal to or lower than .10 (i.e., that would have otherwise been included in any polygenic risk score). Numbers for the internalizing polygenic risk scores are reported considering only the cleaned summary statistic file with potentially problematic SNPs removed.

Table S1.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | BIC | adjusted BIC | BLRT | loglikelihood | entropy |
| # Groups | Primary Caregiver | | | | |
| 1 | 23719.85 | 23719.85 |  | -11822.02 |  |
| 2 | 22541.00 | 22480.67 | 1223.07, p<0.001 | -11210.49 | 0.90 |
| 3 | 22194.16 | 22111.62 | 391.07, p<0.001 | -11014.96 | 0.92 |
| 4 | 21981.05 | 21876.30 | 257.32, p<0.001 | -10886.30 | 0.93 |
| 5 | 21842.40 | 21715.42 | 182.87, p<0.001 | -10794.86 | 0.93 |
|  | Teacher | | | | |
| 1 | 19976.57 | 19938.48 |  | -9950.99 |  |
| 2 | 19231.48 | 19171.17 | 788.60, p<0.001 | -9556.70 | 0.88 |
| 3 | 18970.58 | 18888.05 | 304.40, p<0.001 | -9404.50 | 0.92 |
| 4 | 18822.20 | 18717.46 | 191.88, p<0.001 | -9308.56 | 0.90 |
| 5 | 18709.01 | 18582.04 | 156.70, p<0.001 | -9230.21 | 0.92 |

*Fit indices for one to five group latent profile model*

Table S2.

*Mean subscale T-scores for each group and by reporter*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Anxious/  Depressed | Depressed/  Withdrawn | Somatic Complaints | Rule-breaking | Aggression | Attentional Problems |
| Groups | Primary Caregiver | | | | | |
| Low Problems | 52.06 | 53.78 | 53.41 | 52.44 | 52.43 | 54.15 |
| Internalizing ‘only’ | 67.09 | 67.65 | 64.68 | 57.60 | 60.69 | 63.75 |
| Externalizing ‘only’ | 56.01 | 59.56 | 56.95 | 64.40 | 68.28 | 64.93 |
| Co-occurring | 73.12 | 74.47 | 68.06 | 70.51 | 80.59 | 77.79 |
|  | Teacher | | | | | |
| Low Problems | 52.66 | 54.09 | 51.68 | 52.47 | 52.22 | 51.51 |
| Internalizing ‘only’ | 60.63 | 67.75 | 60.92 | 57.08 | 56.71 | 58.01 |
| Externalizing ‘only’ | 55.93 | 56.02 | 54.53 | 64.46 | 64.36 | 56.24 |
| Co-occurring | 67.14 | 67.40 | 34.79 | 73.99 | 79.38 | 60.12 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | 21. | 22. | 23. | 24. | 25. | 26. |
| 1. INT PRS | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. AGG PRS | 0.03 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. PC1 | 0.33\*\* | 0.05 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4. PC2 | -0.02 | 0.18\*\* | 0.000 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5. Sex of child | -0.01 | -0.02 | 0.01 | -0.04 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6. Urbanicity | 0.09\* | 0.12\*\* | 0.17\*\* | 0.19\*\* | 0.01 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7. Parent Education | -0.02 | 0.02 | -0.04 | 0.28\*\* | -0.03 | 0.14\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8. BI (2) | 0.09\* | -0.16\*\* | -0.03 | -0.13\*\* | 0.09\* | -0.01 | -0.05 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9. NA (2) | -0.02 | 0.02 | -0.002 | 0.003 | -0.10\*\* | -0.01 | 0.02 | 0.07 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10. IC (2) | 0.02 | -0.08 | 0.07 | -0.06 | 0.12\*\* | 0.02 | 0.02 | -0.01 | -0.10\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. BI (3) | 0.02 | 0.02 | -0.02 | -0.06 | 0.08 | 0.04 | -0.07 | 0.24\*\* | -0.08\* | 0.001 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12. NA (3) | -0.05 | 0.07 | 0.01 | -0.02 | -0.04 | -0.01 | 0.04 | 0.07 | 0.16\*\* | -0.05 | -0.01 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13. IC (3) | 0.03 | -0.10\* | -0.03 | -0.09\* | 0.14\*\* | -0.05 | 0.13\*\* | 0.03 | -0.05 | 0.51\*\* | 0.06 | -0.09\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14. INT (2) | 0.07 | -0.01 | 0.10\* | -0.16\*\* | 0.04 | 0.01 | -0.19\*\* | 0.06 | 0.06 | -0.19\*\* | 0.05 | 0.08\* | -0.18\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15. EXT (2) | -0.01 | 0.002 | -0.01 | 0.10\* | -0.06 | 0.08\* | -0.08\* | -0.03 | 0.08\* | -0.49\*\* | -0.01 | 0.04 | -0.42\*\* | 0.52\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| 16. P ANX | -0.04 | 0.03 | -0.07 | 0.06 | 0.15\*\* | 0.02 | -0.02 | 0.07 | -0.003 | -0.11\* | 0.10\* | 0.11\* | -0.11\* | 0.03 | 0.02 | 1 |  |  |  |  |  |  |  |  |  |  |
| 17. P WITH | -0.01 | 0.03 | 0.01 | 0.05 | 0.03 | 0.05 | 0.01 | 0.09 | 0.02 | -0.11\* | 0.06 | 0.07 | -0.10\* | 0.04 | 0.04 | 0.64\*\* | 1 |  |  |  |  |  |  |  |  |  |
| 18. P SOM | -0.01 | 0.05 | -0.03 | 0.04 | 0.07 | 0.01 | 0.01 | 0.03 | 0.05 | 0.01 | 0.06 | 0.13\*\* | 0.01 | 0.004 | -0.01 | 0.58\*\* | 0.45\*\* | 1 |  |  |  |  |  |  |  |  |
| 19. P RULE | 0.001 | 0.03 | 0.03 | 0.12\* | -0.07 | 0.12\*\* | -0.06 | -0.04 | -0.04 | -0.19\*\* | -0.01 | 0.06 | -0.20\*\* | 0.02 | 0.04 | 0.45\*\* | 0.48\*\* | 0.34\*\* | 1 |  |  |  |  |  |  |  |
| 20. P AGG | -0.02 | 0.04 | 0.03 | 0.06 | -0.06 | 0.08 | -0.10\* | 0.01 | 0.01 | -0.18\*\* | 0.03 | 0.10\* | -0.24\*\* | 0.09\* | 0.12\*\* | 0.55\*\* | 0.53\*\* | 0.40\*\* | 0.78\*\* | 1 |  |  |  |  |  |  |
| 21. P ATT | -0.01 | 0.04 | 0.04 | 0.16\*\* | -0.01 | 0.02 | -0.03 | -0.04 | 0.02 | -0.21\*\* | -0.01 | 0.10\* | -0.31\*\* | -0.04 | -0.01 | 0.53\*\* | 0.53\*\* | 0.35\*\* | 0.60\*\* | 0.67\*\* | 1 |  |  |  |  |  |
| 22. T ANX | -0.06 | 0.02 | 0.01 | 0.02 | 0.03 | -0.03 | -0.09\* | 0.03 | 0.003 | -0.10\* | -0.02 | 0.09 | -0.11\* | -0.10\* | -0.09 | 0.21\*\* | 0.18\*\* | 0.10\* | 0.15\*\* | 0.24\*\* | 0.24\*\* | 1 |  |  |  |  |
| 23. T WITH | -0.08 | 0.07 | -0.04 | 0.02 | 0.04 | 0.01 | 0.004 | 0.08 | -0.01 | -0.03 | 0.14\*\* | 0.08 | 0.01 | -0.09\* | -0.09\* | 0.15\*\* | 0.26\*\* | 0.16\*\* | 0.12\* | 0.18\*\* | 0.18\*\* | 0.47\*\* | 1 |  |  |  |
| 24. T SOM | -0.01 | 0.10\* | 0.06 | 0.07 | -0.001 | 0.08 | -0.04 | 0.06 | 0.02 | -0.03 | 0.02 | 0.07 | -0.09\* | -0.02 | -0.01 | 0.17\*\* | 0.16\*\* | 0.23\*\* | 0.22\*\* | 0.26\*\* | 0.25\*\* | 0.39\*\* | 0.38\*\* | 1 |  |  |
| 25. T RULE | 0.04 | 0.04 | 0.21\*\* | 0.05 | -0.02 | 0.11\* | -0.10\* | -0.02 | 0.02 | -0.04 | 0.02 | 0.08 | -0.12\*\* | 0.01 | 0.02 | 0.10\* | 0.12\*\* | 0.10\* | 0.43\*\* | 0.33\*\* | 0.26\*\* | 0.35\*\* | 0.29\*\* | 0.36\*\* | 1 |  |
| 26. T AGG | 0.05 | 0.08 | 0.21\*\* | 0.08 | -0.05 | 0.10\* | -0.07 | -0.08 | 0.01 | -0.09 | 0.01 | 0.08 | -0.15\*\* | -0.01 | 0.02 | 0.10\* | 0.11\* | 0.04 | 0.40\*\* | 0.41\*\* | 0.32\*\* | 0.46\*\* | 0.22\*\* | 0.38\*\* | 0.77\*\* | 1 |
| 27. T ATT | -0.01 | 0.004 | 0.12\* | 0.01 | 0.19\*\* | 0.04 | -0.02 | 0.05 | -0.03 | -0.03 | 0.07 | 0.09 | -0.15\*\* | -0.07 | -0.05 | 0.14\*\* | 0.17\*\* | 0.13\*\* | 0.23\*\* | 0.24\*\* | 0.32\*\* | 0.40\*\* | 0.43\*\* | 0.40\*\* | 0.54\*\* | 0.52\*\* |

Table S3.

*Zero-order Correlations*

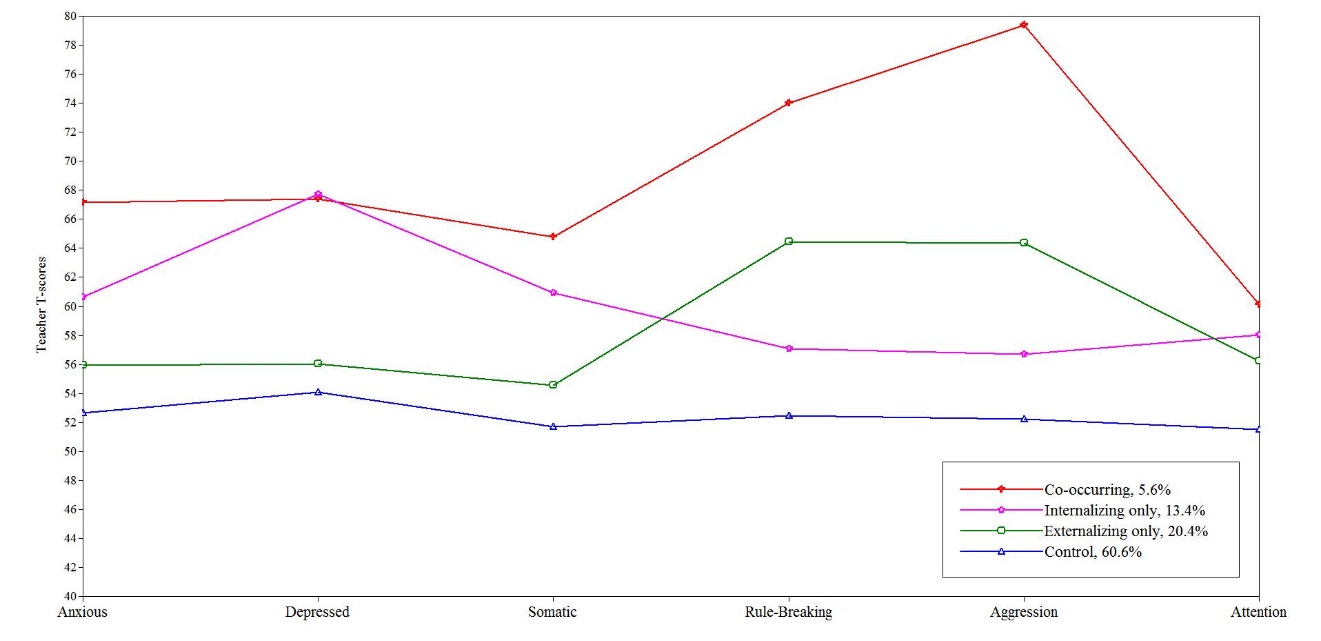
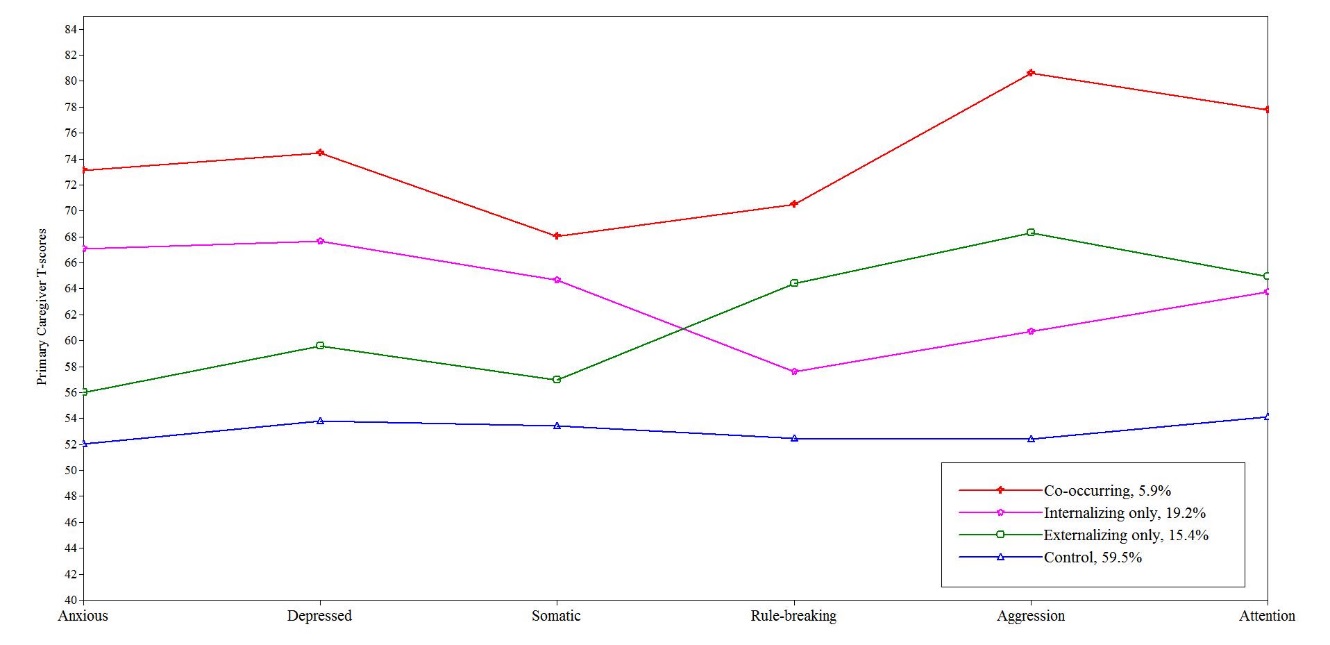
\*\**p*<0.01. \**p*<0.05. INT: Internalizing. EXT: Externalizing. PRS: Polygenic Risk Score. PC: Principal Component. BI: Behavioral Inhibition. NA: Negative Affectivity. IC: Inhibitory Control. Sex: 0=male, 1=female. Urbanicity: 0=rural, 1=suburban, 2=urban. (2) or (3) indicates measurement at age 2 or 3. P: CBCL Subscales Anxious (ANX), Withdrawn (WITH), Somatization (SOM), Rule-breaking (RULE), Aggression (AGG), and Attentional Problems (ATT). T: TRF subscales.

Table S4.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Primary Caregiver-Reported Outcomes | | |
|  | General Psychopathology factor | Specific Externalizing factor | Specific Internalizing factor |
| Internalizing PRS | -0.02(0.05) | -0.05(0.06) | -0.02(0.06) |
| Aggression PRS | -0.01(0.05) | 0.07(0.06) | 0.08(0.06) |
| BI age 2 | 0.02(0.05) | 0.11(0.06)† | 0.12(0.06)† |
| NA age 2 | -0.07(0.05) | 0.004(0.06) | 0.01(0.06) |
| IC age 2 | -0.05(0.07) | 0.10(0.08) | 0.05(0.08) |
| BI age 3 | -0.04(0.05) | 0.07(0.06) | 0.07(0.06) |
| NA age 3 | 0.10(0.05)† | 0.02(0.07) | 0.02(0.06) |
| IC age 3 | -0.20(0.06)\* | 0.18(0.08)\* | 0.20(0.09)\* |
| Urbanicity | -0.04(0.05) | 0.10(0.07) | -0.001(0.06) |
| Parental Education | -0.02(0.05) | -0.08(0.06) | 0.05(0.06) |
| Intervention Status | -0.04(0.05) | -0.05(0.06) | -0.06(0.05) |
| Ancestry PC 1 | 0.04(0.05) | -0.03(0.06) | -0.15(0.06)\* |
| Ancestry PC 2 | 0.19(0.06)\* | -0.15(0.07)\* | -0.06(0.08) |
| Sex | -0.01(0.05) | -0.05(0.06) | 0.24(0.05)\*\* |
| Par Neg age 2 | 0.07(0.05) | -0.04(0.06) | -0.06(0.06) |
| Par Pos age 2 | 0.05(0.05) | -0.03(0.06) | 0.08(0.06) |
| Par Neg age 3 | 0.09(0.05) | -0.04(0.07) | 0.06(0.06) |
| Par Pos age 3 | -0.04(0.05) | -0.01(0.06) | 0.06(0.06) |
| Maternal Depression | 0.09(0.05)† | -0.03(0.06) | 0.08(0.06) |
| Internalizing age 2 | 0.07(0.06) | 0.09(0.07) | 0.23(0.07)\* |
| Externalizing age 2 | 0.15(0.08)† | 0.22(0.09)\* | 0.003(0.08) |

*Primary Caregiver-reporter Bifactor Model Results*

Notes. *N =* 515. \*\**p* < 0.001, \**p* < 0.05, †*p* < 0.10. Standardized Coefficients(Standard Errors) presented. PC: Principal Component. Par Neg: Observed parental negative affect. Par Pos: Observed parental positive affect. BI: Behavioral Inhibition. NA: Negative Affectivity. IC: Inhibitory Control. Sex of child: 0=male, 1=female. Urbanicity: 0=rural, 1=suburban, 2=urban. Intervention status: 0=control, 1=intervention.



Primary Caregiver T Scores

Teacher T Scores

Anxious

Depressed

Somatic

Rule-breaking

Aggression

Attention

Anxious

Depressed

Somatic

Rule-breaking

Aggression

Attention

Figure S1. Latent profiles by reporter.Primary caregiver latent profile: *n =* 554. Teacher latent profile: *n* = 500.

**Input and Output for Primary Caregiver-Reported Latent Profile Models**

***\*\*NOTES:***

*Nominal variable: PAR4CLS*

*Category 1 Internalizing only*

*Category 2 Externalizing only*

*Category 3 Low Problems*

*Category 4 Co-occurring problems*

***In the Input/Output, lines starting with \*\*NOTE are not part of the actual input or output.***

***\*\*START INPUT/OUTPUT\*\****

DATA:

FILE IS "4-2-19 es FCU Outcome Genetics Mplus.dat";

VARIABLE:

NAMES ARE id int001 Par4Cls FCU TCGender ANCESTRY1 ANCESTRY2 urbanicity ParEduc CHILDNEG3 CHILDBI3 CHILDIC3 CHILDINTERNALIZING2 CHILDEXTERNALIZING2 CHILDNEG2 CHILDBI2 CHILDIC2 INTPRS AGGPRS PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

USEVARIABLES ARE

Par4Cls FCU TCGender ANCESTRY1 ANCESTRY2 urbanicity ParEduc

CHILDNEG3 CHILDBI3 CHILDIC3 CHILDINTERNALIZING2 CHILDEXTERNALIZING2 CHILDNEG2 CHILDBI2 CHILDIC2 INTPRS AGGPRS PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

MISSING ARE ALL (-99);

useobservations= int001 ge 0;

nominal=Par4Cls;

ANALYSIS:

integration=montecarlo;

MODEL:

CHILDNEG2 on INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDBI2 on INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDIC2 on INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDNEG2 with CHILDBI2 CHILDIC2 CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDBI2 with CHILDIC2 CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDIC2 with CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDINTERNALIZING2 with CHILDEXTERNALIZING2;

CHILDNEG3 on FCU INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARPOS3 PARNEG3 MOMDEP2 CHILDNEG2 CHILDBI2 CHILDIC2;

CHILDBI3 on FCU INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARPOS3 PARNEG3 MOMDEP2 CHILDNEG CHILDBI2 CHILDIC2;

CHILDIC3 on FCU INTPRS AGGPRS urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARPOS3 PARNEG3 MOMDEP2 CHILDNEG2 CHILDBI2 CHILDIC2;

Par4Cls on FCU TCGender ANCESTRY1 ANCESTRY2 urbanicity ParEduc CHILDINTERNALIZING2 CHILDEXTERNALIZING2

INTPRS AGGPRS CHILDNEG2 CHILDBI2 CHILDIC2 CHILDNEG3 CHILDBI3 CHILDIC3

PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

CHILDNEG3 with CHILDBI3 CHILDIC3;

CHILDBI3 with CHILDIC3;

FCU; TCGender ;urbanicity ;CHILDINTERNALIZING2; CHILDEXTERNALIZING2;INTPRS; AGGPRS;ParEduc;

CHILDNEG3; CHILDBI3; CHILDIC3; PARPOS3; PARNEG3; MOMDEP2;ANCESTRY1;ANCESTRY2;

PARNEG2; PARPOS2; CHILDNEG2; ZWHB2OI; CHILDIC2;

output: stdyx modindices tech4 cinterval;

Estimator MLR

Information matrix OBSERVED

Optimization Specifications for the Quasi-Newton Algorithm for

Continuous Outcomes

Maximum number of iterations 100

Convergence criterion 0.100D-05

Optimization Specifications for the EM Algorithm

Maximum number of iterations 500

Convergence criteria

Loglikelihood change 0.100D-02

Relative loglikelihood change 0.100D-05

Derivative 0.100D-02

Optimization Specifications for the M step of the EM Algorithm for

Categorical Latent variables

Number of M step iterations 1

M step convergence criterion 0.100D-02

Basis for M step termination ITERATION

Optimization Specifications for the M step of the EM Algorithm for

Censored, Binary or Ordered Categorical (Ordinal), Unordered

Categorical (Nominal) and Count Outcomes

Number of M step iterations 1

M step convergence criterion 0.100D-02

Basis for M step termination ITERATION

Maximum value for logit thresholds 15

Minimum value for logit thresholds -15

Minimum expected cell size for chi-square 0.100D-01

Maximum number of iterations for H1 2000

Convergence criterion for H1 0.100D-03

Optimization algorithm EMA

Integration Specifications

Type MONTECARLO

Number of integration points 325

Dimensions of numerical integration 13

Adaptive quadrature ON

Monte Carlo integration seed 0

Cholesky OFF

Input data file(s)

4-2-19 es FCU Outcome Genetics Mplus.dat

Input data format FREE

UNIVARIATE PROPORTIONS AND COUNTS FOR CATEGORICAL VARIABLES

PAR4CLS

Category 1 0.200 99.000

Category 2 0.145 72.000

Category 3 0.595 295.000

Category 4 0.060 30.000

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 297

Loglikelihood

H0 Value -13799.320

H0 Scaling Correction Factor 1.3875

for MLR

Information Criteria

Akaike (AIC) 28192.640

Bayesian (BIC) 29453.157

Sample-Size Adjusted BIC 28510.426

(n\* = (n + 2) / 24)

MODEL RESULTS

STANDARDIZED MODEL RESULTS

STDYX Standardization

Two-Tailed

Estimate S.E. Est./S.E. P-Value

CHILDNEG2 ON

INTPRS -0.025 0.044 -0.567 0.571

AGGPRS 0.018 0.041 0.453 0.650

URBANICITY -0.031 0.050 -0.624 0.532

PAREDUC 0.005 0.048 0.112 0.911

ANCESTRY1 -0.003 0.042 -0.080 0.936

ANCESTRY2 -0.007 0.046 -0.162 0.871

TCGENDER 0.027 0.043 0.625 0.532

PARNEG2 0.276 0.053 5.195 0.000

PARPOS2 0.151 0.098 1.546 0.122

MOMDEP2 -0.035 0.043 -0.819 0.413

CHILDBI2 ON

INTPRS 0.105 0.042 2.511 0.012

AGGPRS -0.129 0.042 -3.090 0.002

URBANICITY -0.017 0.048 -0.363 0.716

PAREDUC -0.029 0.050 -0.570 0.569

ANCESTRY1 -0.055 0.047 -1.162 0.245

ANCESTRY2 -0.098 0.055 -1.780 0.075

TCGENDER -0.037 0.044 -0.831 0.406

PARNEG2 0.017 0.046 0.370 0.711

PARPOS2 0.107 0.056 1.908 0.056

MOMDEP2 -0.024 0.041 -0.592 0.554

CHILDIC2 ON

INTPRS -0.008 0.045 -0.167 0.868

AGGPRS -0.081 0.044 -1.857 0.063

URBANICITY 0.024 0.048 0.493 0.622

PAREDUC 0.035 0.041 0.854 0.393

ANCESTRY1 0.081 0.050 1.616 0.106

ANCESTRY2 -0.046 0.045 -1.025 0.305

TCGENDER -0.011 0.044 -0.247 0.805

PARNEG2 -0.049 0.033 -1.519 0.129

PARPOS2 -0.021 0.044 -0.466 0.641

MOMDEP2 -0.020 0.049 -0.396 0.692

CHILDNEG3 ON

FCU -0.023 0.044 -0.524 0.600

INTPRS -0.037 0.041 -0.908 0.364

AGGPRS 0.086 0.038 2.257 0.024

URBANICITY -0.041 0.047 -0.863 0.388

PAREDUC 0.057 0.041 1.393 0.164

ANCESTRY1 0.030 0.044 0.668 0.504

ANCESTRY2 -0.038 0.044 -0.851 0.395

TCGENDER 0.040 0.044 0.916 0.359

PARPOS3 0.114 0.045 2.533 0.011

PARNEG3 0.356 0.142 2.509 0.012

MOMDEP2 -0.035 0.038 -0.923 0.356

CHILDNEG2 0.193 0.076 2.542 0.011

CHILDBI2 0.047 0.043 1.084 0.279

CHILDIC2 0.038 0.051 0.738 0.461

CHILDBI3 ON

FCU -0.007 0.046 -0.157 0.875

INTPRS -0.003 0.045 -0.072 0.942

AGGPRS 0.079 0.042 1.912 0.056

URBANICITY 0.030 0.054 0.548 0.584

PAREDUC -0.031 0.046 -0.687 0.492

ANCESTRY1 -0.032 0.049 -0.659 0.510

ANCESTRY2 -0.035 0.038 -0.913 0.361

TCGENDER 0.027 0.046 0.588 0.557

PARPOS3 0.069 0.046 1.508 0.131

PARNEG3 0.040 0.041 0.961 0.336

MOMDEP2 0.023 0.046 0.496 0.620

CHILDNEG2 -0.088 0.076 -1.165 0.244

CHILDBI2 0.269 0.056 4.801 0.000

CHILDIC2 0.043 0.047 0.906 0.365

CHILDIC3 ON

FCU 0.063 0.039 1.608 0.108

INTPRS 0.047 0.040 1.163 0.245

AGGPRS -0.019 0.040 -0.480 0.631

URBANICITY -0.052 0.042 -1.241 0.215

PAREDUC 0.125 0.041 3.080 0.002

ANCESTRY1 -0.057 0.042 -1.363 0.173

ANCESTRY2 -0.073 0.036 -2.015 0.044

TCGENDER 0.022 0.039 0.569 0.569

PARPOS3 0.051 0.044 1.171 0.242

PARNEG3 0.008 0.024 0.318 0.750

MOMDEP2 -0.102 0.046 -2.214 0.027

CHILDNEG2 -0.002 0.066 -0.031 0.975

CHILDBI2 0.012 0.041 0.295 0.768

CHILDIC2 0.490 0.039 12.622 0.000

***\*\*NOTE Co-occurring (reference) compared to Internalizing only\*\****

PAR4CLS#1 ON

FCU 0.120 0.090 1.343 0.179

TCGENDER 0.007 0.104 0.071 0.943

ANCESTRY1 -0.065 0.101 -0.644 0.519

ANCESTRY2 -0.754 0.142 -5.297 0.000

URBANICITY -0.137 0.099 -1.386 0.166

PAREDUC 0.189 0.110 1.725 0.085

CHILDINTERNALIZING2 -0.184 0.124 -1.482 0.138

CHILDEXTERNALIZING2 -0.165 0.113 -1.464 0.143

INTPRS -0.244 0.116 -2.108 0.035

AGGPRS 0.032 0.101 0.318 0.751

CHILDNEG2 0.139 0.098 1.425 0.154

CHILDBI2 -0.174 0.098 -1.776 0.076

CHILDIC2 -0.028 0.102 -0.272 0.786

CHILDNEG3 -0.207 0.074 -2.805 0.005

CHILDBI3 -0.040 0.102 -0.397 0.691

CHILDIC3 0.106 0.101 1.053 0.292

PARPOS3 0.132 0.120 1.100 0.272

PARNEG3 0.079 0.052 1.536 0.124

PARNEG2 -0.062 0.074 -0.847 0.397

PARPOS2 0.021 0.086 0.241 0.810

MOMDEP2 -0.245 0.110 -2.233 0.026

***\*\*NOTE Co-occurring (reference) compared to Externalizing only\*\****

PAR4CLS#2 ON

FCU 0.128 0.093 1.378 0.168

TCGENDER -0.115 0.108 -1.066 0.286

ANCESTRY1 -0.014 0.105 -0.133 0.894

ANCESTRY2 -0.696 0.154 -4.516 0.000

URBANICITY -0.139 0.102 -1.358 0.174

PAREDUC -0.001 0.109 -0.008 0.994

CHILDINTERNALIZING2 -0.329 0.118 -2.785 0.005

CHILDEXTERNALIZING2 -0.039 0.103 -0.377 0.706

INTPRS -0.260 0.121 -2.156 0.031

AGGPRS 0.011 0.103 0.103 0.918

CHILDNEG2 0.141 0.103 1.372 0.170

CHILDBI2 -0.200 0.093 -2.149 0.032

CHILDIC2 0.018 0.098 0.183 0.855

CHILDNEG3 -0.245 0.088 -2.773 0.006

CHILDBI3 -0.012 0.100 -0.120 0.904

CHILDIC3 0.007 0.103 0.070 0.944

PARPOS3 0.092 0.128 0.721 0.471

PARNEG3 0.025 0.057 0.437 0.662

PARNEG2 -0.014 0.064 -0.215 0.830

PARPOS2 -0.169 0.097 -1.744 0.081

MOMDEP2 -0.302 0.113 -2.667 0.008

***\*\*NOTE Co-occurring (reference) compared to Low Problems\*\****

PAR4CLS#3 ON

FCU 0.145 0.074 1.965 0.049

TCGENDER -0.081 0.087 -0.928 0.354

ANCESTRY1 -0.029 0.083 -0.349 0.727

ANCESTRY2 -0.723 0.126 -5.731 0.000

URBANICITY -0.096 0.080 -1.203 0.229

PAREDUC 0.138 0.090 1.530 0.126

CHILDINTERNALIZING2 -0.328 0.100 -3.296 0.001

CHILDEXTERNALIZING2 -0.228 0.092 -2.472 0.013

INTPRS -0.089 0.092 -0.974 0.330

AGGPRS -0.021 0.086 -0.243 0.808

CHILDNEG2 0.133 0.084 1.585 0.113

CHILDBI2 -0.160 0.078 -2.053 0.040

CHILDIC2 0.007 0.075 0.096 0.923

CHILDNEG3 -0.180 0.061 -2.955 0.003

CHILDBI3 -0.037 0.081 -0.452 0.651

CHILDIC3 0.050 0.083 0.601 0.548

PARPOS3 0.072 0.104 0.690 0.490

PARNEG3 -0.049 0.069 -0.713 0.476

PARNEG2 -0.044 0.049 -0.902 0.367

PARPOS2 -0.064 0.070 -0.906 0.365

MOMDEP2 -0.221 0.087 -2.522 0.012

ZC9PNEG2 WITH

CHILDBI2 0.039 0.058 0.670 0.503

CHILDIC2 -0.087 0.046 -1.887 0.059

CHILDINTERNALIZING2 0.081 0.041 1.986 0.047

CHILDEXTERNALIZING2 0.083 0.055 1.487 0.137

CHILDBI2 WITH

CHILDIC2 0.004 0.045 0.088 0.930

CHILDINTERNALIZING2 -0.006 0.046 -0.135 0.892

CHILDEXTERNALIZING2 -0.039 0.049 -0.797 0.426

ZPT0INH2 WITH

CHILDINTERNALIZING2 -0.171 0.042 -4.061 0.000

CHILDEXTERNALIZING2 -0.485 0.034 -14.089 0.000

CHILDINTERNALIZING2 WITH

CHILDEXTERNALIZING2 0.494 0.034 14.588 0.000

FCU -0.016 0.044 -0.366 0.715

TCGENDER 0.051 0.044 1.164 0.244

ANCESTRY1 0.103 0.042 2.463 0.014

ANCESTRY2 -0.162 0.039 -4.127 0.000

URBANICITY 0.047 0.045 1.043 0.297

PAREDUC -0.185 0.041 -4.552 0.000

ZC9PNEG3 WITH

CHILDBI3 0.007 0.035 0.192 0.848

CHILDIC3 -0.035 0.046 -0.760 0.447

CHILDBI3 WITH

CHILDIC3 0.063 0.044 1.437 0.151

TCGENDER WITH

FCU 0.037 0.044 0.840 0.401

ANCESTRY1 WITH

FCU -0.028 0.044 -0.630 0.529

TCGENDER 0.012 0.044 0.268 0.789

ANCESTRY2 WITH

FCU 0.000 0.044 0.001 0.999

TCGENDER -0.039 0.044 -0.890 0.374

ANCESTRY1 0.000 0.025 0.000 1.000

URBANICITY WITH

FCU 0.031 0.044 0.703 0.482

TCGENDER -0.034 0.044 -0.767 0.443

ANCESTRY1 0.171 0.047 3.678 0.000

ANCESTRY2 0.193 0.032 6.020 0.000

PAREDUC WITH

FCU 0.011 0.044 0.249 0.804

TCGENDER 0.013 0.044 0.288 0.773

ANCESTRY1 -0.038 0.040 -0.961 0.336

ANCESTRY2 0.279 0.050 5.601 0.000

URBANICITY 0.119 0.041 2.890 0.004

CHILDEXTERNALIZING2 WITH

FCU -0.032 0.039 -0.828 0.407

TCGENDER -0.092 0.044 -2.116 0.034

ANCESTRY1 -0.014 0.045 -0.303 0.762

ANCESTRY2 0.099 0.046 2.157 0.031

URBANICITY 0.092 0.043 2.107 0.035

PAREDUC -0.086 0.045 -1.918 0.055

INTPRS WITH

FCU -0.050 0.044 -1.144 0.253

TCGENDER 0.000 0.044 0.000 1.000

ANCESTRY1 0.327 0.039 8.400 0.000

ANCESTRY2 -0.019 0.045 -0.420 0.674

URBANICITY 0.088 0.045 1.944 0.052

PAREDUC -0.021 0.045 -0.454 0.650

CHILDINTERNALIZING2 0.067 0.045 1.472 0.141

CHILDEXTERNALIZING2 -0.011 0.043 -0.263 0.793

AGGPRS WITH

FCU -0.044 0.044 -1.002 0.316

TCGENDER 0.000 0.044 0.000 1.000

ANCESTRY1 0.050 0.043 1.163 0.245

ANCESTRY2 0.183 0.044 4.133 0.000

URBANICITY 0.116 0.043 2.699 0.007

PAREDUC 0.020 0.047 0.435 0.664

CHILDINTERNALIZING2 -0.008 0.042 -0.184 0.854

CHILDEXTERNALIZING2 -0.002 0.045 -0.037 0.970

INTPRS 0.032 0.044 0.729 0.466

PARPOS3 WITH

FCU 0.147 0.043 3.438 0.001

TCGENDER -0.085 0.046 -1.865 0.062

ANCESTRY1 -0.095 0.046 -2.074 0.038

ANCESTRY2 -0.003 0.052 -0.048 0.962

URBANICITY 0.008 0.047 0.168 0.866

PAREDUC 0.128 0.046 2.765 0.006

CHILDINTERNALIZING2 -0.015 0.044 -0.337 0.736

CHILDEXTERNALIZING2 -0.062 0.038 -1.634 0.102

INTPRS -0.062 0.050 -1.254 0.210

AGGPRS -0.051 0.046 -1.100 0.271

PARNEG3 WITH

FCU -0.007 0.047 -0.144 0.885

TCGENDER -0.076 0.047 -1.638 0.101

ANCESTRY1 0.046 0.049 0.928 0.353

ANCESTRY2 0.013 0.023 0.545 0.585

URBANICITY 0.074 0.037 1.973 0.049

PAREDUC -0.018 0.037 -0.486 0.627

CHILDINTERNALIZING2 0.037 0.024 1.555 0.120

CHILDEXTERNALIZING2 0.106 0.029 3.697 0.000

INTPRS -0.040 0.031 -1.278 0.201

AGGPRS -0.005 0.033 -0.165 0.869

PARPOS3 -0.060 0.029 -2.052 0.040

PARNEG2 WITH

FCU 0.006 0.043 0.135 0.892

TCGENDER -0.089 0.035 -2.552 0.011

ANCESTRY1 0.080 0.044 1.808 0.071

ANCESTRY2 -0.001 0.031 -0.048 0.962

URBANICITY 0.119 0.034 3.456 0.001

PAREDUC 0.010 0.043 0.240 0.811

CHILDINTERNALIZING2 -0.004 0.041 -0.107 0.915

CHILDEXTERNALIZING2 0.129 0.042 3.089 0.002

INTPRS 0.046 0.031 1.485 0.138

AGGPRS 0.051 0.045 1.138 0.255

PARPOS3 -0.003 0.046 -0.067 0.947

PARNEG3 0.172 0.063 2.729 0.006

PARPOS2 WITH

FCU 0.039 0.044 0.888 0.374

TCGENDER 0.009 0.044 0.208 0.835

ANCESTRY1 -0.016 0.045 -0.345 0.730

ANCESTRY2 0.057 0.037 1.557 0.119

URBANICITY 0.030 0.047 0.631 0.528

PAREDUC 0.098 0.043 2.275 0.023

CHILDINTERNALIZING2 -0.023 0.041 -0.556 0.578

CHILDEXTERNALIZING2 -0.009 0.044 -0.201 0.841

INTPRS 0.015 0.044 0.335 0.738

AGGPRS -0.010 0.046 -0.229 0.819

PARPOS3 0.279 0.087 3.195 0.001

PARNEG3 -0.067 0.030 -2.264 0.024

PARNEG2 0.054 0.040 1.353 0.176

MOMDEP2 WITH

FCU 0.001 0.044 0.027 0.979

TCGENDER -0.037 0.044 -0.828 0.408

ANCESTRY1 0.064 0.045 1.410 0.158

ANCESTRY2 0.080 0.040 2.000 0.045

URBANICITY 0.148 0.042 3.561 0.000

PAREDUC -0.063 0.047 -1.339 0.180

CHILDINTERNALIZING2 0.228 0.043 5.351 0.000

CHILDEXTERNALIZING2 0.157 0.048 3.235 0.001

INTPRS -0.052 0.046 -1.140 0.254

AGGPRS 0.016 0.046 0.343 0.732

PARPOS3 0.054 0.054 1.004 0.315

PARNEG3 0.029 0.036 0.811 0.417

PARNEG2 -0.007 0.041 -0.161 0.872

PARPOS2 0.165 0.051 3.232 0.001

Means

FCU 1.006 0.044 22.693 0.000

TCGENDER 2.983 0.042 71.418 0.000

ANCESTRY1 0.000 0.044 0.000 1.000

ANCESTRY2 0.000 0.044 0.000 1.000

URBANICITY 2.714 0.075 36.248 0.000

PAREDUC 0.052 0.044 1.181 0.238

CHILDINTERNALIZING2 -0.008 0.044 -0.179 0.858

CHILDEXTERNALIZING2 0.005 0.044 0.123 0.902

INTPRS 0.000 0.044 0.000 1.000

AGGPRS 0.000 0.044 0.000 1.000

PARPOS3 0.012 0.047 0.252 0.801

PARNEG3 -0.019 0.049 -0.380 0.704

PARNEG2 0.023 0.041 0.572 0.567

PARPOS2 -0.020 0.045 -0.437 0.662

MOMDEP2 0.031 0.044 0.717 0.474

Intercepts

CHILDNEG3 -0.013 0.202 -0.063 0.950

CHILDBI3 -0.171 0.232 -0.738 0.460

CHILDIC3 -0.010 0.166 -0.062 0.950

CHILDNEG2 -0.015 0.215 -0.069 0.945

CHILDBI2 0.122 0.200 0.611 0.542

CHILDIC2 -0.001 0.184 -0.004 0.997

PAR4CLS#1 1.325 0.433 3.064 0.002

PAR4CLS#2 1.502 0.441 3.405 0.001

PAR4CLS#3 1.713 0.385 4.452 0.000

Variances

FCU 1.000 0.000 999.000 999.000

TCGENDER 1.000 0.000 999.000 999.000

ANCESTRY1 1.000 0.000 999.000 999.000

ANCESTRY2 1.000 0.000 999.000 999.000

URBANICITY 1.000 0.000 999.000 999.000

PAREDUC 1.000 0.000 999.000 999.000

CHILDINTERNALIZING2 1.000 0.000 999.000 999.000

CHILDEXTERNALIZING2 1.000 0.000 999.000 999.000

INTPRS 1.000 0.000 999.000 999.000

AGGPRS 1.000 0.000 999.000 999.000

PARPOS3 1.000 0.000 999.000 999.000

PARNEG3 1.000 0.000 999.000 999.000

PARNEG2 1.000 0.000 999.000 999.000

PARPOS2 1.000 0.000 999.000 999.000

MOMDEP2 1.000 0.000 999.000 999.000

Residual Variances

CHILDNEG3 0.808 0.093 8.707 0.000

CHILDBI3 0.909 0.028 32.410 0.000

CHILDIC3 0.704 0.039 17.829 0.000

CHILDNEG2 0.897 0.028 31.759 0.000

CHILDBI2 0.942 0.022 42.034 0.000

CHILDIC2 0.981 0.012 83.487 0.000

R-SQUARE

Observed Two-Tailed

Variable Estimate S.E. Est./S.E. P-Value

ZC9PNEG3 0.192 0.093 2.070 0.038

CHILDBI3 0.091 0.028 3.250 0.001

ZPT0INH3 0.296 0.039 7.499 0.000

ZC9PNEG2 0.103 0.028 3.636 0.000

CHILDBI2 0.058 0.022 2.586 0.010

ZPT0INH2 0.019 0.012 1.607 0.108

**Input and Output for Teacher-Reported Latent Profile Models**

***\*\*NOTES:***

*Nominal variable: T4CLS14*

*Category 1 Low Problems*

*Category 2 Externalizing only*

*Category 3 Internalizing only*

*Category 4 Co-occurring Problems*

***In the Input/Output, lines starting with \*\*NOTE are not part of the actual input or output.***

***\*\*START INPUT/OUTPUT\*\****

DATA:

FILE IS "4-2-19 es FCU Outcome Genetics Mplus.dat";

VARIABLE:

NAMES ARE

Id T4Cls14 FCU TCGender ANCESTRY1 ANCESTRY2 Urbanicity ParEduc

CHILDNEG3 CHILDBI3 CHILDIC3 CHILDINTERNALIZING2 CHILDEXTERNALIZING2 CHILDNEG2 CHILDBI2 CHILDIC2

INTPRS AGGPRS PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

USEVARIABLES ARE

T4Cls14 FCU TCGender ANCESTRY1 ANCESTRY2 Urbanicity ParEduc

CHILDNEG3 CHILDBI3 CHILDIC3 CHILDINTERNALIZING2 CHILDEXTERNALIZING2 CHILDNEG2 CHILDBI2 CHILDIC2

INTPRS AGGPRS PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

MISSING ARE ALL (-99);

useobservations= int001 ge 0;

nominal=T4Cls14;

ANALYSIS:

integration=montecarlo;

MODEL:

CHILDNEG2 on INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDBI2 on INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDIC2 on INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG2 PARPOS2 MOMDEP2;

CHILDNEG2 with CHILDBI2 CHILDIC2 CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDBI2 with CHILDIC2 CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDIC2 with CHILDINTERNALIZING2 CHILDEXTERNALIZING2;

CHILDINTERNALIZING2 with CHILDEXTERNALIZING2;

CHILDNEG3 on FCU INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG3 PARPOS3 MOMDEP2 CHILDNEG2 CHILDBI2 CHILDIC2;

CHILDBI3 on FCU INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG3 PARPOS3 MOMDEP2 CHILDNEG2 CHILDBI2 CHILDIC2;

CHILDIC3 on FCU INTPRS AGGPRS Urbanicity ParEduc

ANCESTRY1 ANCESTRY2 TCGender PARNEG3 PARPOS3 MOMDEP2 CHILDNEG2 CHILDBI2 CHILDIC2;

T4Cls14 on FCU TCGender ANCESTRY1 ANCESTRY2 Urbanicity ParEduc CHILDINTERNALIZING2 CHILDEXTERNALIZING2

INTPRS AGGPRS CHILDNEG2 CHILDBI2 CHILDIC2 CHILDNEG3 CHILDBI3 CHILDIC3

PARPOS3 PARNEG3 PARNEG2 PARPOS2 MOMDEP2;

CHILDNEG3 with CHILDBI3 CHILDIC3;

CHILDBI3 with CHILDIC3;

FCU; TCGender ;Urbanicity ;CHILDINTERNALIZING2; CHILDEXTERNALIZING2;INTPRS; AGGPRS;ParEduc;

CHILDNEG3; CHILDBI3; CHILDIC3; PARPOS3; PARNEG3;ANCESTRY1 ;ANCESTRY2;

PARNEG2; PARPOS2; CHILDNEG2; CHILDBI2; CHILDIC2;MOMDEP2;

output: stdyx modindices tech4 cinterval;

SUMMARY OF ANALYSIS

Number of FCUs 1

Number of observations 515

Number of dependent variables 7

Number of independent variables 15

Number of continuous latent variables 0

Observed dependent variables

Continuous

CHILDNEG3 CHILDBI3 CHILDIC3 CHILDNEG2 CHILDBI2 CHILDIC2

Unordered categorical (nominal)

T4CLS14

Observed independent variables

FCU TCGENDER ANCESTRY1 ANCESTRY2 URBANICITY PAREDUC

CHILDINTERNALIZING2 CHILDEXTERNALIZING2 INTPRS AGGPRS PARPOS3 PARNEG3

PARNEG2 PARPOS2 MOMDEP2

Estimator MLR

Information matrix OBSERVED

Optimization Specifications for the Quasi-Newton Algorithm for

Continuous Outcomes

Maximum number of iterations 100

Convergence criterion 0.100D-05

Optimization Specifications for the EM Algorithm

Maximum number of iterations 500

Convergence criteria

Loglikelihood change 0.100D-02

Relative loglikelihood change 0.100D-05

Derivative 0.100D-02

Optimization Specifications for the M step of the EM Algorithm for

Categorical Latent variables

Number of M step iterations 1

M step convergence criterion 0.100D-02

Basis for M step termination ITERATION

Optimization Specifications for the M step of the EM Algorithm for

Censored, Binary or Ordered Categorical (Ordinal), Unordered

Categorical (Nominal) and Count Outcomes

Number of M step iterations 1

M step convergence criterion 0.100D-02

Basis for M step termination ITERATION

Maximum value for logit thresholds 15

Minimum value for logit thresholds -15

Minimum expected cell size for chi-square 0.100D-01

Maximum number of iterations for H1 2000

Convergence criterion for H1 0.100D-03

Optimization algorithm EMA

Integration Specifications

Type MONTECARLO

Number of integration points 3250

Dimensions of numerical integration 13

Adaptive quadrature ON

Monte Carlo integration seed 0

Cholesky OFF

Input data file(s)

4-2-19 es FCU Outcome Genetics Mplus.dat

Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 17

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.100

STANDARDIZED MODEL RESULTS

STDYX Standardization

Two-Tailed

Estimate S.E. Est./S.E. P-Value

CHILDNEG2 ON

INTPRS -0.025 0.044 -0.572 0.567

AGGPRS 0.018 0.041 0.454 0.649

URBANICITY -0.031 0.050 -0.627 0.530

PAREDUC 0.005 0.048 0.107 0.915

ANCESTRY1 -0.004 0.042 -0.084 0.933

ANCESTRY2 -0.007 0.046 -0.161 0.872

TCGENDER 0.027 0.043 0.618 0.536

PARNEG2 0.276 0.053 5.190 0.000

PARPOS2 0.151 0.098 1.546 0.122

MOMDEP2 -0.036 0.043 -0.826 0.409

CHILDBI2 ON

INTPRS 0.104 0.042 2.485 0.013

AGGPRS -0.131 0.041 -3.160 0.002

URBANICITY -0.019 0.048 -0.404 0.686

PAREDUC -0.028 0.050 -0.558 0.577

ANCESTRY1 -0.056 0.047 -1.184 0.237

ANCESTRY2 -0.096 0.055 -1.741 0.082

TCGENDER -0.036 0.044 -0.811 0.417

PARNEG2 0.018 0.046 0.387 0.699

PARPOS2 0.107 0.056 1.913 0.056

MOMDEP2 -0.022 0.041 -0.533 0.594

CHILDIC2 ON

INTPRS -0.007 0.045 -0.164 0.870

AGGPRS -0.081 0.044 -1.862 0.063

URBANICITY 0.023 0.048 0.485 0.628

PAREDUC 0.035 0.041 0.861 0.389

ANCESTRY1 0.081 0.050 1.612 0.107

ANCESTRY2 -0.046 0.045 -1.028 0.304

TCGENDER -0.011 0.044 -0.249 0.803

PARNEG2 -0.049 0.033 -1.513 0.130

PARPOS2 -0.021 0.044 -0.472 0.637

MOMDEP2 -0.019 0.049 -0.384 0.701

CHILDNEG3 ON

FCU -0.021 0.044 -0.485 0.628

INTPRS -0.040 0.041 -0.973 0.331

AGGPRS 0.084 0.037 2.252 0.024

URBANICITY -0.042 0.047 -0.891 0.373

PAREDUC 0.051 0.041 1.255 0.209

ANCESTRY1 0.027 0.044 0.615 0.539

ANCESTRY2 -0.034 0.044 -0.773 0.440

TCGENDER 0.035 0.044 0.793 0.428

PARNEG3 0.357 0.143 2.504 0.012

PARPOS3 0.117 0.045 2.594 0.009

MOMDEP2 -0.028 0.039 -0.729 0.466

CHILDNEG2 0.200 0.081 2.460 0.014

CHILDBI2 0.054 0.043 1.245 0.213

CHILDIC2 0.035 0.051 0.686 0.493

CHILDBI3 ON

FCU -0.009 0.045 -0.196 0.844

INTPRS -0.001 0.044 -0.033 0.974

AGGPRS 0.079 0.042 1.895 0.058

URBANICITY 0.033 0.051 0.647 0.518

PAREDUC -0.035 0.045 -0.767 0.443

ANCESTRY1 -0.034 0.049 -0.697 0.486

ANCESTRY2 -0.033 0.036 -0.921 0.357

TCGENDER 0.026 0.045 0.585 0.559

PARNEG3 0.038 0.040 0.959 0.337

PARPOS3 0.070 0.044 1.581 0.114

MOMDEP2 0.023 0.041 0.559 0.576

CHILDNEG2 -0.092 0.041 -2.231 0.026

CHILDBI2 0.271 0.050 5.380 0.000

CHILDIC2 0.041 0.046 0.890 0.373

CHILDIC3 ON

FCU 0.064 0.039 1.632 0.103

INTPRS 0.044 0.040 1.089 0.276

AGGPRS -0.021 0.040 -0.512 0.609

URBANICITY -0.047 0.040 -1.154 0.249

PAREDUC 0.124 0.041 3.073 0.002

ANCESTRY1 -0.055 0.042 -1.319 0.187

ANCESTRY2 -0.074 0.035 -2.087 0.037

TCGENDER 0.024 0.038 0.626 0.532

PARNEG3 0.007 0.024 0.296 0.767

PARPOS3 0.049 0.043 1.135 0.256

MOMDEP2 -0.105 0.043 -2.445 0.014

CHILDNEG2 -0.010 0.040 -0.256 0.798

CHILDBI2 0.011 0.036 0.293 0.769

CHILDIC2 0.492 0.039 12.697 0.000

***\*\*NOTE Co-occurring (reference) compared to Low Problems\*\****

T4CLS14#1 ON

FCU -0.072 0.138 -0.522 0.602

TCGENDER 0.057 0.124 0.464 0.643

ANCESTRY1 -0.315 0.148 -2.138 0.033

ANCESTRY2 -0.270 0.126 -2.136 0.033

URBANICITY -0.052 0.138 -0.376 0.707

PAREDUC 0.506 0.109 4.659 0.000

CHILDINTERNALIZING2 0.355 0.170 2.085 0.037

CHILDEXTERNALIZING2 -0.281 0.159 -1.771 0.077

INTPRS 0.226 0.146 1.550 0.121

AGGPRS -0.096 0.143 -0.672 0.502

CHILDNEG2 -0.045 0.122 -0.369 0.712

CHILDBI2 -0.158 0.108 -1.461 0.144

CHILDIC2 0.151 0.148 1.022 0.307

CHILDNEG3 -0.332 0.081 -4.116 0.000

CHILDBI3 -0.004 0.126 -0.031 0.975

CHILDIC3 0.026 0.172 0.149 0.882

PARPOS3 0.489 0.179 2.735 0.006

PARNEG3 0.008 0.065 0.119 0.905

PARNEG2 0.121 0.187 0.645 0.519

PARPOS2 0.123 0.161 0.763 0.446

MOMDEP2 -0.028 0.132 -0.215 0.830

***\*\*NOTE Co-occurring (reference) compared to Externalizing only\*\****

T4CLS14#2 ON

FCU -0.064 0.141 -0.457 0.648

TCGENDER 0.171 0.123 1.391 0.164

ANCESTRY1 0.052 0.126 0.411 0.681

ANCESTRY2 -0.216 0.139 -1.549 0.121

URBANICITY -0.015 0.139 -0.107 0.915

PAREDUC 0.376 0.122 3.093 0.002

CHILDINTERNALIZING2 0.344 0.168 2.042 0.041

CHILDEXTERNALIZING2 -0.246 0.174 -1.411 0.158

INTPRS 0.170 0.149 1.143 0.253

AGGPRS -0.028 0.148 -0.191 0.848

CHILDNEG2 -0.084 0.126 -0.662 0.508

CHILDBI2 -0.198 0.116 -1.711 0.087

CHILDIC2 0.176 0.161 1.092 0.275

CHILDNEG3 -0.368 0.096 -3.821 0.000

CHILDBI3 0.011 0.136 0.080 0.937

CHILDIC3 -0.065 0.168 -0.389 0.697

PARPOS3 0.600 0.163 3.681 0.000

PARNEG3 0.032 0.067 0.469 0.639

PARNEG2 0.379 0.195 1.948 0.051

PARPOS2 0.141 0.162 0.873 0.382

MOMDEP2 -0.070 0.143 -0.486 0.627

***\*\*NOTE Co-occurring (reference) compared to Internalizing only\*\****

T4CLS14#3 ON

FCU -0.199 0.138 -1.442 0.149

TCGENDER 0.148 0.127 1.165 0.244

ANCESTRY1 -0.253 0.156 -1.627 0.104

ANCESTRY2 -0.207 0.154 -1.348 0.178

URBANICITY 0.110 0.139 0.789 0.430

PAREDUC 0.551 0.120 4.574 0.000

CHILDINTERNALIZING2 0.336 0.172 1.950 0.051

CHILDEXTERNALIZING2 -0.194 0.177 -1.101 0.271

INTPRS 0.069 0.154 0.450 0.653

AGGPRS -0.069 0.146 -0.468 0.639

CHILDNEG2 -0.150 0.133 -1.122 0.262

CHILDBI2 0.012 0.121 0.103 0.918

CHILDIC2 0.154 0.159 0.971 0.332

CHILDNEG3 -0.249 0.100 -2.501 0.012

CHILDBI3 -0.025 0.137 -0.181 0.856

CHILDIC3 -0.037 0.182 -0.205 0.837

PARPOS3 0.440 0.186 2.371 0.018

PARNEG3 -0.025 0.088 -0.281 0.778

PARNEG2 0.322 0.182 1.766 0.077

PARPOS2 0.272 0.157 1.737 0.082

MOMDEP2 -0.061 0.144 -0.427 0.669

ZC9PNEG2 WITH

CHILDBI2 0.039 0.058 0.669 0.504

CHILDIC2 -0.087 0.046 -1.882 0.060

CHILDINTERNALIZING2 0.081 0.041 1.982 0.047

CHILDEXTERNALIZING2 0.082 0.055 1.481 0.139

CHILDBI2 WITH

CHILDIC2 0.006 0.045 0.144 0.886

CHILDINTERNALIZING2 -0.007 0.046 -0.145 0.885

CHILDEXTERNALIZING2 -0.041 0.049 -0.850 0.395

ZPT0INH2 WITH

CHILDINTERNALIZING2 -0.170 0.042 -4.030 0.000

CHILDEXTERNALIZING2 -0.486 0.034 -14.095 0.000

CHILDINTERNALIZING2 WITH

CHILDEXTERNALIZING2 0.494 0.034 14.576 0.000

FCU -0.016 0.044 -0.357 0.721

TCGENDER 0.052 0.044 1.171 0.241

ANCESTRY1 0.103 0.042 2.472 0.013

ANCESTRY2 -0.162 0.039 -4.131 0.000

URBANICITY 0.047 0.045 1.035 0.301

PAREDUC -0.184 0.041 -4.544 0.000

ZC9PNEG3 WITH

CHILDBI3 0.004 0.035 0.103 0.918

CHILDIC3 -0.036 0.046 -0.779 0.436

CHILDBI3 WITH

CHILDIC3 0.060 0.044 1.361 0.174

TCGENDER WITH

FCU 0.037 0.044 0.840 0.401

ANCESTRY1 WITH

FCU -0.028 0.044 -0.630 0.529

TCGENDER 0.012 0.044 0.268 0.789

ANCESTRY2 WITH

FCU 0.000 0.044 0.001 0.999

TCGENDER -0.039 0.044 -0.890 0.374

ANCESTRY1 0.000 0.025 0.000 1.000

URBANICITY WITH

FCU 0.031 0.044 0.703 0.482

TCGENDER -0.034 0.044 -0.767 0.443

ANCESTRY1 0.171 0.047 3.678 0.000

ANCESTRY2 0.193 0.032 6.020 0.000

PAREDUC WITH

FCU 0.011 0.044 0.249 0.804

TCGENDER 0.013 0.044 0.288 0.773

ANCESTRY1 -0.038 0.040 -0.961 0.336

ANCESTRY2 0.279 0.050 5.601 0.000

URBANICITY 0.119 0.041 2.890 0.004

CHILDEXTERNALIZING2 WITH

FCU -0.033 0.039 -0.831 0.406

TCGENDER -0.093 0.044 -2.119 0.034

ANCESTRY1 -0.014 0.045 -0.306 0.760

ANCESTRY2 0.099 0.046 2.160 0.031

URBANICITY 0.092 0.043 2.111 0.035

PAREDUC -0.086 0.045 -1.921 0.055

INTPRS WITH

FCU -0.050 0.044 -1.144 0.253

TCGENDER 0.000 0.044 0.000 1.000

ANCESTRY1 0.327 0.039 8.400 0.000

ANCESTRY2 -0.019 0.045 -0.420 0.674

URBANICITY 0.088 0.045 1.944 0.052

PAREDUC -0.021 0.045 -0.454 0.650

CHILDINTERNALIZING2 0.067 0.045 1.475 0.140

CHILDEXTERNALIZING2 -0.011 0.043 -0.265 0.791

AGGPRS WITH

FCU -0.044 0.044 -1.002 0.316

TCGENDER 0.000 0.044 0.000 1.000

ANCESTRY1 0.050 0.043 1.163 0.245

ANCESTRY2 0.183 0.044 4.133 0.000

URBANICITY 0.116 0.043 2.699 0.007

PAREDUC 0.020 0.047 0.435 0.664

CHILDINTERNALIZING2 -0.007 0.042 -0.178 0.859

CHILDEXTERNALIZING2 -0.002 0.045 -0.040 0.968

INTPRS 0.032 0.044 0.729 0.466

PARPOS3 WITH

FCU 0.148 0.043 3.466 0.001

TCGENDER -0.081 0.045 -1.777 0.076

ANCESTRY1 -0.093 0.047 -1.969 0.049

ANCESTRY2 -0.002 0.052 -0.043 0.966

URBANICITY 0.010 0.045 0.223 0.824

PAREDUC 0.131 0.046 2.834 0.005

CHILDINTERNALIZING2 -0.016 0.043 -0.378 0.706

CHILDEXTERNALIZING2 -0.062 0.038 -1.633 0.103

INTPRS -0.062 0.050 -1.224 0.221

AGGPRS -0.047 0.046 -1.011 0.312

PARNEG3 WITH

FCU -0.002 0.048 -0.051 0.960

TCGENDER -0.076 0.048 -1.577 0.115

ANCESTRY1 0.040 0.049 0.825 0.409

ANCESTRY2 0.013 0.023 0.565 0.572

URBANICITY 0.072 0.038 1.888 0.059

PAREDUC -0.018 0.036 -0.514 0.607

CHILDINTERNALIZING2 0.037 0.024 1.534 0.125

CHILDEXTERNALIZING2 0.108 0.030 3.598 0.000

INTPRS -0.046 0.031 -1.475 0.140

AGGPRS -0.006 0.033 -0.168 0.867

PARPOS3 -0.058 0.030 -1.937 0.053

PARNEG2 WITH

FCU 0.006 0.043 0.128 0.898

TCGENDER -0.088 0.035 -2.543 0.011

ANCESTRY1 0.080 0.044 1.816 0.069

ANCESTRY2 -0.001 0.031 -0.047 0.963

URBANICITY 0.119 0.034 3.464 0.001

PAREDUC 0.011 0.044 0.243 0.808

CHILDINTERNALIZING2 -0.004 0.041 -0.102 0.919

CHILDEXTERNALIZING2 0.129 0.042 3.087 0.002

INTPRS 0.046 0.031 1.496 0.135

AGGPRS 0.051 0.045 1.137 0.256

PARPOS3 -0.003 0.057 -0.055 0.956

PARNEG3 0.168 0.061 2.740 0.006

PARPOS2 WITH

FCU 0.038 0.044 0.881 0.378

TCGENDER 0.009 0.044 0.209 0.835

ANCESTRY1 -0.015 0.045 -0.339 0.735

ANCESTRY2 0.057 0.037 1.555 0.120

URBANICITY 0.030 0.047 0.631 0.528

PAREDUC 0.097 0.043 2.267 0.023

CHILDINTERNALIZING2 -0.023 0.041 -0.548 0.584

CHILDEXTERNALIZING2 -0.009 0.044 -0.200 0.842

INTPRS 0.015 0.044 0.342 0.732

AGGPRS -0.010 0.046 -0.225 0.822

PARPOS3 0.277 0.059 4.726 0.000

PARNEG3 -0.062 0.031 -1.999 0.046

PARNEG2 0.054 0.040 1.357 0.175

MOMDEP2 WITH

FCU 0.001 0.045 0.026 0.979

TCGENDER -0.037 0.044 -0.828 0.408

ANCESTRY1 0.064 0.045 1.414 0.157

ANCESTRY2 0.080 0.040 1.999 0.046

URBANICITY 0.148 0.042 3.561 0.000

PAREDUC -0.064 0.048 -1.342 0.180

CHILDINTERNALIZING2 0.228 0.043 5.351 0.000

CHILDEXTERNALIZING2 0.156 0.049 3.218 0.001

INTPRS -0.053 0.046 -1.157 0.247

AGGPRS 0.015 0.046 0.337 0.736

PARPOS3 0.051 0.047 1.066 0.286

PARNEG3 0.035 0.037 0.935 0.350

PARNEG2 -0.007 0.041 -0.169 0.866

PARPOS2 0.166 0.051 3.244 0.001

Means

FCU 1.006 0.044 22.693 0.000

TCGENDER 2.983 0.042 71.418 0.000

ANCESTRY1 0.000 0.044 0.000 1.000

ANCESTRY2 0.000 0.044 0.000 1.000

URBANICITY 2.714 0.075 36.248 0.000

PAREDUC 0.052 0.044 1.181 0.238

CHILDINTERNALIZING2 -0.008 0.044 -0.187 0.852

CHILDEXTERNALIZING2 0.006 0.044 0.127 0.899

INTPRS 0.000 0.044 0.000 1.000

AGGPRS 0.000 0.044 0.000 1.000

PARPOS3 0.011 0.045 0.248 0.804

PARNEG3 -0.019 0.050 -0.386 0.699

PARNEG2 0.024 0.041 0.579 0.563

PARPOS2 -0.020 0.045 -0.437 0.662

MOMDEP2 0.032 0.044 0.720 0.472

Intercepts

CHILDNEG3 0.009 0.202 0.043 0.966

CHILDBI3 -0.174 0.214 -0.816 0.415

CHILDIC3 -0.032 0.159 -0.199 0.842

CHILDNEG2 -0.014 0.215 -0.065 0.948

CHILDBI2 0.126 0.201 0.625 0.532

CHILDIC2 0.000 0.184 0.001 0.999

T4CLS14#1 1.874 0.596 3.144 0.002

T4CLS14#2 0.664 0.539 1.231 0.218

T4CLS14#3 0.272 0.536 0.507 0.612

Variances

FCU 1.000 0.000 999.000 999.000

TCGENDER 1.000 0.000 999.000 999.000

ANCESTRY1 1.000 0.000 999.000 999.000

ANCESTRY2 1.000 0.000 999.000 999.000

URBANICITY 1.000 0.000 999.000 999.000

PAREDUC 1.000 0.000 999.000 999.000

CHILDINTERNALIZING2 1.000 0.000 999.000 999.000

CHILDEXTERNALIZING2 1.000 0.000 999.000 999.000

INTPRS 1.000 0.000 999.000 999.000

AGGPRS 1.000 0.000 999.000 999.000

PARPOS3 1.000 0.000 999.000 999.000

PARNEG3 1.000 0.000 999.000 999.000

PARNEG2 1.000 0.000 999.000 999.000

PARPOS2 1.000 0.000 999.000 999.000

MOMDEP2 1.000 0.000 999.000 999.000

Residual Variances

CHILDNEG3 0.804 0.094 8.512 0.000

CHILDBI3 0.907 0.028 32.326 0.000

CHILDIC3 0.701 0.039 18.210 0.000

CHILDNEG2 0.897 0.028 31.713 0.000

CHILDBI2 0.942 0.022 42.085 0.000

CHILDIC2 0.981 0.012 83.600 0.000

R-SQUARE

Observed Two-Tailed

Variable Estimate S.E. Est./S.E. P-Value

ZC9PNEG3 0.196 0.094 2.078 0.038

CHILDBI3 0.093 0.028 3.328 0.001

ZPT0INH3 0.299 0.039 7.751 0.000

ZC9PNEG2 0.103 0.028 3.633 0.000

CHILDBI2 0.058 0.022 2.584 0.010

ZPT0INH2 0.019 0.012 1.608 0.1089