**Supplementary Materials**

Supplementary materials include the following appendices: A) a full list of self-report measure items; B) confirmatory factor analysis results; C) revision of the TEIQue-ASF subscale; D) inspection of data against normality assumptions; E) measurement invariance results; F) RI-CLPM syntax; G) RI-CLPM output; H) measurement model results; and I) an overview of covariates as predictors of original group-level constructs.

**Appendix A) Full list of self-report measure items**

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| Table S1*Full List of Self-Report Items in Current Study* |
| Construct  | Items |
| Emotional distress (SDQ subscale)  | I get a lot of headaches, stomach-aches or sicknessI worry a lotI am often unhappy, downhearted or tearfulI am nervous in new situations. I easily lose confidenceI have many fears, I am easily scared |
| Emotion regulation (TEIQue-ASF revised subscale\*) | I find it hard to control my feelingsI’m able to deal with stressI can control my anger when I want to I try to control my thoughts and not worry too much about things |
| Family adult connection (SRS subscale)  | *At home, there is an adult who…*Is interested in my school workBelieves that I will be a successWants me to do my bestListens to me when I have something to say |
| Peer connection (SRS subscale) | *Are there students at your school who would…*Choose you on your team at schoolTell you you’re good at doing thingsExplain the rules of a game if you didn’t understand themInvite you to their homeShare things with youHelp you if you hurt yourselfMiss you if you weren’t at schoolMake you feel better if something is bothering youPick you for a partnerHelp you if other students are being mean to youTell you you’re their friendAsk you to join in when you are all aloneTell you secrets |
| *Note.* SDQ = Strengths and Difficulties Questionnaire; TEIQue-ASF = Trait Emotional Intelligence Questionnaire – Adolescent Short Form; SRS = Student Resilience Survey. \* Two items relating to impulsiveness removed from the TEIQue-ASF subscale due to poor fit as outlined in main text and the following supplementary materials: “I change my mind often” and “sometimes, I get involved in things later I wish I could get out of”  |
|  |

**Appendix B) Confirmatory factor analysis results**

We undertook CFA for all key construct measures, using imputed data; note that results presented here include the revised four-item TEIQUE-ASF and account of the revision process for this measure is presented in the following section of our supplementary materials. For CFA, we followed guidance from Hu and Bentler (1999) and considered root mean square error of approximation (RMSEA) values below .06, Comparative Fit Index (CFI) and Tucker-Lewis Index (TLI) values greater than .95, and root mean square residual (SRMR) values below .08 indicative of good fit. Chi-square is reported for reference. To assess parameters we used a .05 alpha threshold and considered standardised factor loadings (λ) above .40 considered to be salient (Brown, 2015).

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| Table S2*Confirmatory Factor Analysis Results Summary (MLR and WLSMV results shown)*  |
| Construct  | Model fit | λ range |
| ***MLR***  |  |  |
| Emotional distress T1 | c2 (5) = 261.60 (SD = 9.79); RMSEA = .06 (SD = .00); CFI = .98 (SD = .00), TLI = .96 (SD = .00); SRMR = .02 (SD = .00) | .43–.71 |
| Emotional distress T2 | c2 (5) = 367.43 (SD = 25.51); RMSEA = .07 (SD = .00); CFI = .98 (SD = .00), TLI = .96 (SD = .00); SRMR = .02 (SD = .00) | .45–.74 |
| Emotional distress T3 | c2 (5) = 364.07 (SD = 26.80); RMSEA = .07 (SD = .00); CFI = .98 (SD = .00), TLI = .97 (SD = .00); SRMR = .02 (SD = .00) | .49–.75 |
| Emotion regulation T1 | c2 (2) = 70.28 (SD = 4.11); RMSEA = .05 (SD = .00); CFI = .99 (SD = .00), TLI = . 97 (SD = .00); SRMR = .02 (SD = .00)  | .46–.62 |
| Emotion regulation T2 | c2 (2) = 108.76 (SD = 11.11); RMSEA = .06 (SD = .00); CFI = .99 (SD = .00), TLI = .96 (SD = .01); SRMR = .02 (SD = .00) | .48–.75 |
| Emotion regulation T3 | c2 (2) = 207.39 (SD = 24.11); RMSEA = .08 (SD = 01); CFI = .98 (SD = .00), TLI = .94 (SD = .01); SRMR = .02 (SD = .00) | .51–.79 |
| Family adult connection T1 | c2 (2) = 87.32 (SD = 5.53); RMSEA = .05 (SD = .00); CFI = .99 (SD = .00), TLI = .97 (SD = .00); SRMR = .02 (SD = .00)  | .67–.77 |
| Family adult connection T2 | c2 (2) = 141.59 (SD = 15.64); RMSEA = .07 (SD = .00); CFI = .99 (SD = .00), TLI = .98 (SD = .00); SRMR = .02 (SD = .00) | .45–.77 |
| Family adult connection T3 | c2 (2) = 119.46 (SD = 17.92); RMSEA = .06 (SD = .01); CFI = 1.00 (SD = .00), TLI = .98 (SD = .00); SRMR = .01 (SD = .00)  | .74–.84 |
| Peer connection T1 | c2 (65) = 3280.13 (SD = 26.85); RMSEA = .06 (SD = .00); CFI = .94 (SD = .00), TLI = .93 (SD = .00); SRMR = .03 (SD = .00)  | .62–.79 |
| Peer connection T2 | c2 (65) = 3997.12 (SD = 72.59); RMSEA = .06 (SD = .00); CFI = .95 (SD = .00), TLI = .94 (SD = .00); SRMR = .03 (SD = .00)  | .69–.82 |
| Peer connection T3 | c2 (65) = 4825.34 (SD = 107.42); RMSEA = .07 (SD = .00); CFI = .95 (SD = .00), TLI = .94 (SD = .00); SRMR = .03 (SD = .00) | .69–.83 |
| ***WLSMV***  |  |
| Emotional distress T1 | c2 (5) = 312.73 (SD = 12.77); RMSEA = .06 (SD = .00); CFI = .99 (SD = .00), TLI = .97 (SD = .00); SRMR = .02 (SD = .00) | .48–.78 |
| Emotional distress T2 | c2 (5) = 466.26 (SD = 36.73); RMSEA = .08 (SD = .00); CFI = .98 (SD = .00), TLI = .96 (SD = .00); SRMR = .03 (SD = .00) | .51–81 |
| Emotional distress T3 | c2 (5) = 471.57 (SD = 38.55); RMSEA = .08 (SD = .00); CFI = .98 (SD = .00), TLI = .96 (SD = .00); SRMR = .03 (SD = .00) | .55–.83 |
| Emotion regulation T1 | c2 (2) = 103.10 (SD = 6.07); RMSEA = .06 (SD = .00); CFI = .99 (SD = .00), TLI = .98 (SD = .00); SRMR = .01 (SD = .00) | .49–.80 |
| Emotion regulation T2 | c2 (2) = 196.76 (SD = 20.52); RMSEA = .08 (SD = .00); CFI = .98 (SD = .00), TLI = .95 (SD = .01); SRMR = .01 (SD = .00) | .49–79 |
| Emotion regulation T3 | c2 (2) = 298.93 (SD = 32.66); RMSEA = .10 (SD = .01); CFI = .98 (SD = .00), TLI = .95 (SD = .01); SRMR = .02 (SD < .001) | .53–.82 |
| Family adult connection T1 | c2 (2) = 56.69 (SD = 3.86); RMSEA = .04 (SD = .00); CFI = 1.00 (SD < .001), TLI = .99 (SD = .00); SRMR = .01 (SD = .00).  | .74–.84 |
| Family adult connection T2 | c2 (2) = 62.16 (SD = 9.04); RMSEA = .04 (SD = .00); CFI = 1.00 (SD = .00), TLI = .99 (SD = .00); SRMR = .01 (SD = .00)  | .79–.88 |
| Family adult connection T3 | c2 (2) = 41.28 (SD = 9.28); RMSEA = .04 (SD = .00); CFI = 1.00 (SD = .00), TLI = 1.00 (SD = .00); SRMR = .00 (SD = .00) | .81–.90 |
| Peer connection T1 | c2 (65) = 5429.48 (SD = 52.12) RMSEA = .07 (SD < .001); CFI = .97 (SD = .00), TLI =.96 (SD = .00); SRMR = .03 (SD = .00) | .69–.85 |
| Peer connection T2 | c2 (65) = 6542.99 (SD = 142.60); RMSEA = .08 (SD = .00); CFI = .96 (SD = .00), TLI = .95 (SD = .00); SRMR = .03 (SD = .00) | .74–.87 |
| Peer connection T3 | c2 (65) = 8241.61 (SD = 233.09); RMSEA = .09 (SD = .00); CFI = .97 (SD = .00), TLI = .97 (SD = .00); SRMR = .03 (SD = .00).  | .76–.88 |
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|  |  |  |
| *Note.* MLR = robust maximum likelihood; λ = standardised factor loadings; T1 = Timepoint 1; T2 = Timepoint 2; T3 = Timepoint 3; c2 = chi-square; RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual.  |

**Appendix C) Revision of TEIQue-ASF subscale**

Initial CFA in the current sample showed poor fit for the full six-item subscale. We identified two items with frequently lower than salient factor loadings (Items 2 and 5 in Table S1): “I change my mind often” and “sometimes, I get involved in things later I wish I could get out of”. These items map onto a nested ‘impulsiveness’ facet in the self-control subscale. Given results, we removed these two items and performed CFA with the revised four-item subscale; this showed good fit as reported in the previous section (Table S2) and acceptable internal consistency (T1 α = .69; T2 α = .69; T3 α = .71). Thus, in the current study we use the four-item revised subscale and refer to this more narrowly as ‘emotion regulation’ in line with the retained item content as shown in Table S1, as wording here maps onto ‘emotion regulation’ and ‘stress management’ components of the wider self-control facet.

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| Table S3*Initial Confirmatory Factor Analysis Results for the TEIQue-ASF subscale (WLSMV)* |
| Construct  | Model fit | λ  |
| CFA six-item emotion regulation T1 | c2 (9) = 2281.79 (SD = 59.79); RMSEA = .13 (SD = .00); CFI = .89 (SD = .00), TLI = .81 (SD = .01); SRMR = .05 (SD = .00) | Item 1: .70Item 2: .33\*Item 3: .71Item 4: .63Item 5: .35\*Item 6: .45 |
| CFA six-item emotion regulation T2 | c2 (9) = 1806.43 (SD = 67.88); RMSEA = .11 (SD = .00); CFI = .89 (SD = .01), TLI = .82 (SD = .01); SRMR = .05 (SD = .00) | Item 1: .73Item 2: .39\*Item 3: .71Item 4: .61Item 5: .36\*Item 6: .43 |
| CFA six-item emotion regulation T3 | c2 (9) = 2723.06 (SD = 169.11); RMSEA = .14 (SD = .00); CFI = .88 (SD = .01), TLI = .80 (SD = .01); SRMR = .05 (SD = .00) | Item 1: .73Item 2: .42Item 3: .76Item 4: .60Item 5: .33\*Item 6: .48 |
| *Note.* WLSMV = weighted least square mean and variance adjusted;λ = standardised factor loadings; T1 = Timepoint 1; T2 = Timepoint 2; T3 = Timepoint 3; c2 = chi-square; RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual. \* indicates standardised factor loadings lower than the saliency level of .40 |

**Appendix D) Inspection of data against normality assumptions**

We undertook a range of preliminary analysis to check assumptions around normality, examining outliers, multicollinearity, skew, kurtosis, and floor and ceiling effects, as outlined below in Table S4. We note here some mild violations but overall found no major issues in our data.

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| Table S4*Summary of review of data against normality assumptions* |
| Assumption | Summary of review |
| Outliers | Minimal outliers (>30 outliers across each main variable, respectively)  |
| Skew | Skewness did not exceed absolute value of 2 (West et al., 1995)  |
| Kurtosis  | Kurtosis did not exceed absolute value of 7 (West et al., 1995) |
| Floor effects | Proportion of participants scoring lowest possible total score was lower than 15% for all variables (Terwee et al., 2007)  |
| Ceiling effects | Proportion of participants scoring highest possible total score was greater than 15% (Terwee et al., 2007) for only the family connection total scores, as follows: T1: 30%; T2: 32%; T3: 28% |

**Appendix E) Measurement invariance results**

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| Table S5*Longitudinal measurement invariance of emotional distress with average values (and standard deviation) (MLR)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 1133.341 (35.071) | 72 | .030 (.001) | .986 (.000) | .980 (.001) | .022 (.000) |  |
| Metric | 1215.536(36.023) | 80 | .030 (.000) | .985 (.000) | .981 (.001) | .024 (.000) | .001 |
| Scalar |  1528.097(41.450) | 88 | .032 (.000) | .981 (.000) | .978 (.001) | .025 (.000) | .004 |
| *Note.* MLR = robust maximum likelihood; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual.  |

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| Table S6*Longitudinal measurement invariance of emotional distress with average values (and standard deviation) (WLSMV)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 1498.636 (59.435) | 72 | .035 (.001) | .983 (.001) | .976 (.001) | .026 (.000) |  |
| Scalar |  1731.203(63.946) | 88 | .034 (.001) | .981 (.001) | .977 (.001) | .027 (.000) | .002 |
| *Note.* WLSMV = weighted least square mean and variance adjusted; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual. |

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| Table S7*Longitudinal measurement invariance of emotion regulation with average values (and standard deviation) (MLR)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 1338.507 (48.420) | 39 | .046 (.001) | .970 (.001) | .949 (.002) | .033 (.001) |  |
| Metric | 1372.495 (47.361) | 45 | .043 (.001) | .969 (.001) | .955 (.001) | .033 (.001) | .001 |
| Scalar | 1415.255 (47.363) | 51 | .041 (.001) | .968 (.001) | .959 (.001) | .034 (.001) | .001 |
| *Note.* MLR = robust maximum likelihood; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual.  |

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| Table S8*Longitudinal measurement invariance of emotion regulation with average values (and standard deviation) (WLSMV)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 1643.403 (63.465) | 39 | .051 (.001) | .971 (.002) | .951 (.003) | .022 (.000) |  |
| Scalar | 1882.663(64.142) | 83 | .037 (.001) | .967 (.002) | .974 (.001) | .022 (.000) | .004 |
| *Note.* WLSMV = weighted least square mean and variance adjusted; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual. |

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| Table S9*Longitudinal measurement invariance of family support with average values (and standard deviation) (MLR)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 782.767 (37.595) | 39 | .035 (.001) | .986 (.001) | .976 (.001) | .029 (.001) |  |
| Metric | 800.671 (35.192) | 45 | .033 (.001) | .986 (.001) | .979 (.001) | .044 (.002) | .000 |
| Scalar |  961.272(37.078) | 51 | .034 (.001) | .983 (.001) | .978 (.001) | .048 (.002) | .003 |
| *Note.* MLR = robust maximum likelihood; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual.  |

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| Table S10*Longitudinal measurement invariance of family support with average values (and standard deviation) (WLSMV)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 452.450 (30.457) | 39 | .026 (.001) | .995 (.001) | .991 (.001) | .015 (.000) |  |
| Scalar | 600.664(31.832) | 67 | .022 (.001) | .993 (.001) | .993 (.001) | .016 (.002) | .002 |
| *Note.* WLSMV = weighted least square mean and variance adjusted; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual. |

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| Table S10*Longitudinal measurement invariance of peer support with average values (and standard deviation) (MLR)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 16424.254(150.895) | 660 | .039 (.000) | .946 (.001) | .940 (.001) | .029 (.000) |  |
| Metric | 16729.906(151.528) | 684 | .038 (.001) | .945 (.001) | .941 (.001) | .031 (.001) | .001 |
| Scalar |  18144.596(157.954) | 708 | .039 (.000) | .941 (.001) | .938 (.001) | .033 (.000) | .004 |
| *Note.* MLR = robust maximum likelihood; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual.  |

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| Table S11*Longitudinal measurement invariance of peer support with average values (and standard deviation) (WLSMV)* |
|  | χ2  | df | RMSEA | CFI | TLI | SRMR | CFI difference |
| Configural | 8474.600 (151.109) | 660 | .027 (.000) | .982 (.001) | .980 (.001) | .025 (.000) |  |
| Scalar | 8804.811 (147.728) | 762 | .026 (.000) | .982 (.001) | .982 (.001) | .025 (.000) | .000 |
| *Note.* WLSMV = weighted least square mean and variance adjusted; c2 = chi-square; df = degrees of freedom RMSEA = root mean square error of approximation; CFI = Comparative Fit Index; TLI = Tucker-Lewis Index; SRMR = Standardised Root Mean Squared Residual. |

**Appendix F) RI-CLPM syntax**

TITLE: RI-CLPM with imputed data and all covariates

DATA:

FILE = impcascadeslist.dat;

TYPE = imputation;

VARIABLE:

NAMES =

EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1

REG1T1 REG2T1 REG3T1 REG4T1 REG5T1 REG6T1

FAM1T1 FAM2T1 FAM3T1 FAM4T1

PEER1T1 PEER2T1 PEER3T1 PEER4T1 PEER5T1

PEER6T1 PEER7T1 PEER8T1 PEER9T1 PEER10T1

PEER11T1 PEER12T1 PEER13T1

EMO1T2 EMO2T2 EMO3T2 EMO4T2 EMO5T2

REG1T2 REG2T2 REG3T2 REG4T2 REG5T2 REG6T2

FAM1T2 FAM2T2 FAM3T2 FAM4T2

PEER1T2 PEER2T2 PEER3T2 PEER4T2 PEER5T2

PEER6T2 PEER7T2 PEER8T2 PEER9T2 PEER10T2

PEER11T2 PEER12T2 PEER13T2

EMO1T3 EMO2T3 EMO3T3 EMO4T3 EMO5T3

REG1T3 REG2T3 REG3T3 REG4T3 REG5T3 REG6T3

FAM1T3 FAM2T3 FAM3T3 FAM4T3

PEER1T3 PEER2T3 PEER3T3 PEER4T3 PEER5T3

PEER6T3 PEER7T3 PEER8T3 PEER9T3 PEER10T3

PEER11T3 PEER12T3 PEER13T3

ETHNICBI LANGUAGE SEN FSMEVER ATTAINBI

GENDER SCHOOL ATTAIN;

USEVARIABLES =

EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1

REG1T1 REG3T1 REG4T1 REG6T1

EMO1T2 EMO2T2 EMO3T2 EMO4T2 EMO5T2

REG1T2 REG3T2 REG4T2 REG6T2

EMO1T3 EMO2T3 EMO3T3 EMO4T3 EMO5T3

REG1T3 REG3T3 REG4T3 REG6T3

ETHNICBI SEN FSMEVER

GENDER ATTAIN

FAMT1 FAMT2 FAMT3

PERT1 PERT2 PERT3;

CATEGORICAL =

EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1

REG1T1 REG3T1 REG4T1 REG6T1

EMO1T2 EMO2T2 EMO3T2 EMO4T2 EMO5T2

REG1T2 REG3T2 REG4T2 REG6T2

EMO1T3 EMO2T3 EMO3T3 EMO4T3 EMO5T3

REG1T3 REG3T3 REG4T3 REG6T3;

MISSING = \*;

CLUSTER = school;

ANALYSIS:

ESTIMATOR = WLSMV;

TYPE = COMPLEX;

PARAMETERIZATION=THETA;

ITERATIONS = 10000;

DEFINE:

FAMT1 = (FAM1T1 + FAM2T1 + FAM3T1 + FAM4T1);

FAMT2 = (FAM1T2 + FAM2T2 + FAM3T2 + FAM4T2);

FAMT3 = (FAM1T3 + FAM2T3 + FAM3T3 + FAM4T3);

! Peer variables are rescaled to /10 given the number

! of items, in order to get a variance under 10

! and thus avoid convergence issues

PERT1 = (PEER1T1 + PEER2T1 + PEER3T1 + PEER4T1

+ PEER5T1 + PEER6T1 + PEER7T1 + PEER8T1 + PEER9T1

+ PEER10T1 + PEER11T1 + PEER12T1 + PEER13T1)/10;

PERT2 = (PEER1T2 + PEER2T2 + PEER3T2 + PEER4T2

+ PEER5T2 + PEER6T2 + PEER7T2 + PEER8T2 + PEER9T2

+ PEER10T2 + PEER11T2 + PEER12T2 + PEER13T2)/10;

PERT3 = (PEER1T3 + PEER2T3 + PEER3T3 + PEER4T3

+ PEER5T3 + PEER6T3 + PEER7T3 + PEER8T3 + PEER9T3

+ PEER10T3 + PEER11T3 + PEER12T3 + PEER13T3)/10;

MODEL:

!!!!!!!!!!!!!!!!!

! FACTOR MODELS !

!!!!!!!!!!!!!!!!!

! Factor models for emotional symptoms at 3 waves

! constrained factor loadings over time

F\_EMO1 by emo1t1 emo2t1 emo3t1 emo4t1 emo5t1 (L1-L5);

F\_EMO2 by emo1t2 emo2t2 emo3t2 emo4t2 emo5t2 (L1-L5);

F\_EMO3 by emo1t3 emo2t3 emo3t3 emo4t3 emo5t3 (L1-L5);

! First timepoint mean set at zero, second and third free

[F\_EMO1@0];

[F\_EMO2-F\_EMO3\*];

! Factor models for emotion regulation at 3 waves

! constrained factor loadings over time

F\_REG1 by reg1t1 reg3t1 reg4t1 reg6t1 (L6-L9);

F\_REG2 by reg1t2 reg3t2 reg4t2 reg6t2 (L6-L9);

F\_REG3 by reg1t3 reg3t3 reg4t3 reg6t3 (L6-L9);

[F\_REG1@0];

[F\_REG2-F\_REG3\*];

! Residual covariances

!Emo

emo1t1 with emo1t2 emo1t3;

emo1t2 with emo1t3;

emo2t1 with emo2t2 emo2t3;

emo2t2 with emo2t3;

emo3t1 with emo3t2 emo3t3;

emo3t2 with emo3t3;

emo4t1 with emo4t2 emo4t3;

emo4t2 with emo4t3;

emo5t1 with emo5t2 emo5t3;

emo5t2 with emo5t3;

!Reg

reg1t1 with reg1t2 reg1t3;

reg1t2 with reg1t3;

reg3t1 with reg3t2 reg3t3;

reg3t2 with reg3t3;

reg4t1 with reg4t2 reg4t3;

reg4t2 with reg4t3;

reg6t1 with reg6t2 reg6t3;

reg6t2 with reg6t3;

! Constraining thresholds to equality

! each categorical indicator has the same

! number of thresholds as categories -1

! relative indicators across latents to be

! constrained

!Emo

[emo1t1$1] (t11);

[emo2t1$1] (t12);

[emo3t1$1] (t13);

[emo4t1$1] (t14);

[emo5t1$1] (t15);

[emo1t1$2] (t21);

[emo2t1$2] (t22);

[emo3t1$2] (t23);

[emo4t1$2] (t24);

[emo5t1$2] (t25);

[emo1t2$1] (t11);

[emo2t2$1] (t12);

[emo3t2$1] (t13);

[emo4t2$1] (t14);

[emo5t2$1] (t15);

[emo1t2$2] (t21);

[emo2t2$2] (t22);

[emo3t2$2] (t23);

[emo4t2$2] (t24);

[emo5t2$2] (t25);

[emo1t3$1] (t11);

[emo2t3$1] (t12);

[emo3t3$1] (t13);

[emo4t3$1] (t14);

[emo5t3$1] (t15);

[emo1t3$2] (t21);

[emo2t3$2] (t22);

[emo3t3$2] (t23);

[emo4t3$2] (t24);

[emo5t3$2] (t25);

!Reg

[reg1t1$1] (t31);

[reg3t1$1] (t32);

[reg4t1$1] (t33);

[reg6t1$1] (t34);

[reg1t1$2] (t41);

[reg3t1$2] (t42);

[reg4t1$2] (t43);

[reg6t1$2] (t44);

[reg1t1$3] (t51);

[reg3t1$3] (t52);

[reg4t1$3] (t53);

[reg6t1$3] (t54);

[reg1t1$4] (t61);

[reg3t1$4] (t62);

[reg4t1$4] (t63);

[reg6t1$4] (t64);

[reg1t1$5] (t71);

[reg3t1$5] (t72);

[reg4t1$5] (t73);

[reg6t1$5] (t74);

[reg1t1$6] (t81);

[reg3t1$6] (t82);

[reg4t1$6] (t83);

[reg6t1$6] (t84);

[reg1t2$1] (t31);

[reg3t2$1] (t32);

[reg4t2$1] (t33);

[reg6t2$1] (t34);

[reg1t2$2] (t41);

[reg3t2$2] (t42);

[reg4t2$2] (t43);

[reg6t2$2] (t44);

[reg1t2$3] (t51);

[reg3t2$3] (t52);

[reg4t2$3] (t53);

[reg6t2$3] (t54);

[reg1t2$4] (t61);

[reg3t2$4] (t62);

[reg4t2$4] (t63);

[reg6t2$4] (t64);

[reg1t2$5] (t71);

[reg3t2$5] (t72);

[reg4t2$5] (t73);

[reg6t2$5] (t74);

[reg1t2$6] (t81);

[reg3t2$6] (t82);

[reg4t2$6] (t83);

[reg6t2$6] (t84);

[reg1t3$1] (t31);

[reg3t3$1] (t32);

[reg4t3$1] (t33);

[reg6t3$1] (t34);

[reg1t3$2] (t41);

[reg3t3$2] (t42);

[reg4t3$2] (t43);

[reg6t3$2] (t44);

[reg1t3$3] (t51);

[reg3t3$3] (t52);

[reg4t3$3] (t53);

[reg6t3$3] (t54);

[reg1t3$4] (t61);

[reg3t3$4] (t62);

[reg4t3$4] (t63);

[reg6t3$4] (t64);

[reg1t3$5] (t71);

[reg3t3$5] (t72);

[reg4t3$5] (t73);

[reg6t3$5] (t74);

[reg1t3$6] (t81);

[reg3t3$6] (t82);

[reg4t3$6] (t83);

[reg6t3$6] (t84);

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

! BETWEEN PERSON RANDOM INTERCEPTS !

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

! Create individual factors (random intercepts, across all timepoints)

RI\_EMO by F\_EMO1@1 F\_EMO2@1 F\_EMO3@1;

RI\_REG by F\_REG1@1 F\_REG2@1 F\_REG3@1;

RI\_FAM by FAMT1@1 FAMT2@1 FAMT3@1;

RI\_PER by PERT1@1 PERT2@1 PERT3@1;

! Set the residual variances of all F\_X variables to 0

F\_EMO1@0;

F\_EMO2@0;

F\_EMO3@0;

F\_REG1@0;

F\_REG2@0;

F\_REG3@0;

FAMT1@0;

FAMT2@0;

FAMT3@0;

PERT1@0;

PERT2@0;

PERT3@0;

!!!!!!!!!!!!!!!!!!!!!!!!!

! WITHIN PERSON FACTORS !

!!!!!!!!!!!!!!!!!!!!!!!!!

W\_EMO1 by F\_EMO1@1;

W\_EMO2 by F\_EMO2@1;

W\_EMO3 by F\_EMO3@1;

W\_REG1 by F\_REG1@1;

W\_REG2 by F\_REG2@1;

W\_REG3 by F\_REG3@1;

W\_FAM1 by FAMT1@1;

W\_FAM2 by FAMT2@1;

W\_FAM3 by FAMT3@1;

W\_PER1 by PERT1@1;

W\_PER2 by PERT2@1;

W\_PER3 by PERT3@1;

!!!!!!!!!!!!!!

! COVARIATES !

!!!!!!!!!!!!!!

! Regression of variables on covariate

! the covariate effects of stable covariates

! are held equal

F\_EMO1 on ATTAIN;

F\_EMO1 F\_EMO2 F\_EMO3 on GENDER;

F\_EMO1 F\_EMO2 F\_EMO3 on ETHNICBI;

F\_EMO1 F\_EMO2 F\_EMO3 on SEN;

F\_EMO1 F\_EMO2 F\_EMO3 on FSMEVER;

F\_REG1 on ATTAIN;

F\_REG1 F\_REG2 F\_REG3 on GENDER;

F\_REG1 F\_REG2 F\_REG3 on ETHNICBI;

F\_REG1 F\_REG2 F\_REG3 on SEN;

F\_REG1 F\_REG2 F\_REG3 on FSMEVER;

FAMT1 on ATTAIN;

FAMT1 FAMT2 FAMT3 on GENDER;

FAMT1 FAMT2 FAMT3 on ETHNICBI;

FAMT1 FAMT2 FAMT3 on SEN;

FAMT1 FAMT2 FAMT3 on FSMEVER;

PERT1 on ATTAIN;

PERT1 PERT2 PERT3 on GENDER;

PERT1 PERT2 PERT3 on ETHNICBI;

PERT1 PERT2 PERT3 on SEN;

PERT1 PERT2 PERT3 on FSMEVER;

!!!!!!!!!!!!!!!!!!!!!!!!!

! WITHIN PERSON PATHWAYS!

!!!!!!!!!!!!!!!!!!!!!!!!!

! Estimate the lagged effects between within-person variables

! autoregressives and cross lags

W\_EMO2 on W\_EMO1 W\_REG1 W\_FAM1 W\_PER1;

W\_EMO3 on W\_EMO2 W\_REG2 W\_FAM2 W\_PER2;

W\_REG2 on W\_REG1 W\_EMO1 W\_FAM1 W\_PER1;

W\_REG3 on W\_REG2 W\_EMO2 W\_FAM2 W\_PER2;

W\_FAM2 on W\_FAM1 W\_EMO1 W\_REG1 W\_PER1;

W\_FAM3 on W\_FAM2 W\_EMO2 W\_REG2 W\_PER2;

W\_PER2 on W\_PER1 W\_EMO1 W\_REG1 W\_FAM1;

W\_PER3 on W\_PER2 W\_EMO2 W\_REG2 W\_FAM2;

! Estimate the correlations within the same wave

W\_EMO1 with W\_REG1 W\_FAM1 W\_PER1;

W\_REG1 with W\_FAM1 W\_PER1;

W\_FAM1 with W\_PER1;

W\_EMO2 with W\_REG2 W\_FAM2 W\_PER2;

W\_REG2 with W\_FAM2 W\_PER2;

W\_FAM2 with W\_PER2;

W\_EMO3 with W\_REG3 W\_FAM3 W\_PER3;

W\_REG3 with W\_FAM3 W\_PER3;

W\_FAM3 with W\_PER3;

! Fix the correlation between the individual factors and other

! exogenous variables to zero (by default these would be estimated

! as they are only exogenous variables due to lags)

RI\_EMO with W\_EMO1@0 W\_REG1@0 W\_FAM1@0 W\_PER1@0

 GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

RI\_REG with W\_EMO1@0 W\_REG1@0 W\_FAM1@0 W\_PER1@0

 GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

RI\_FAM with W\_EMO1@0 W\_REG1@0 W\_FAM1@0 W\_PER1@0

 GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

RI\_PER with W\_EMO1@0 W\_REG1@0 W\_FAM1@0 W\_PER1@0

 GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

W\_EMO1 with GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

W\_REG1 with GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

W\_FAM1 with GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

W\_PER1 with GENDER@0 ETHNICBI@0 SEN@0 FSMEVER@0 ATTAIN@0;

OUTPUT: TECH1 TECH4 STAND SAMPSTAT;

**Appendix G) RI-CLPM output**

Below is the RI-CLPM output, showing the summary of analysis, model fit information, and standardised and standardised model results.

RI-CLPM with imputed data and all covariates

SUMMARY OF ANALYSIS

Number of groups 1

Average number of observations 15853

Number of replications

 Requested 100

 Completed 100

Number of dependent variables 33

Number of independent variables 5

Number of continuous latent variables 22

Observed dependent variables

 Continuous

 FAMT1 FAMT2 FAMT3 PERT1 PERT2 PERT3

 Binary and ordered categorical (ordinal)

 EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1 REG1T1

 REG3T1 REG4T1 REG6T1 EMO1T2 EMO2T2 EMO3T2

 EMO4T2 EMO5T2 REG1T2 REG3T2 REG4T2 REG6T2

 EMO1T3 EMO2T3 EMO3T3 EMO4T3 EMO5T3 REG1T3

 REG3T3 REG4T3 REG6T3

Observed independent variables

 ETHNICBI SEN FSMEVER GENDER ATTAIN

Continuous latent variables

 F\_EMO1 F\_EMO2 F\_EMO3 F\_REG1 F\_REG2 F\_REG3

 RI\_EMO RI\_REG RI\_FAM RI\_PER W\_EMO1 W\_EMO2

 W\_EMO3 W\_REG1 W\_REG2 W\_REG3 W\_FAM1 W\_FAM2

 W\_FAM3 W\_PER1 W\_PER2 W\_PER3

Variables with special functions

 Cluster variable SCHOOL

Estimator WLSMV

Maximum number of iterations 10000

Convergence criterion 0.500D-04

Maximum number of steepest descent iterations 20

Maximum number of iterations for H1 2000

Convergence criterion for H1 0.100D-03

Parameterization THETA

Link PROBIT

Input data file(s)

 Multiple data files from

 impcascadeslist.dat

Input data format FREE

SUMMARY OF DATA FOR THE FIRST DATA SET

 Number of missing data patterns 6

 Number of clusters 117

SUMMARY OF MISSING DATA PATTERNS FOR THE FIRST DATA SET

 MISSING DATA PATTERNS (x = not missing)

 1 2 3 4 5 6

 EMO1T1 x x x x x x

 EMO2T1 x x x x x x

 EMO3T1 x x x x x x

 EMO4T1 x x x x x x

 EMO5T1 x x x x x x

 REG1T1 x x x x x x

 REG3T1 x x x x x x

 REG4T1 x x x x x x

 REG6T1 x x x x x x

 EMO1T2 x x x x x x

 EMO2T2 x x x x x x

 EMO3T2 x x x x x x

 EMO4T2 x x x x x x

 EMO5T2 x x x x x x

 REG1T2 x x x x x x

 REG3T2 x x x x x x

 REG4T2 x x x x x x

 REG6T2 x x x x x x

 EMO1T3 x x x x x x

 EMO2T3 x x x x x x

 EMO3T3 x x x x x x

 EMO4T3 x x x x x x

 EMO5T3 x x x x x x

 REG1T3 x x x x x x

 REG3T3 x x x x x x

 REG4T3 x x x x x x

 REG6T3 x x x x x x

 ETHNICBI x x x x x x

 SEN x x

 FSMEVER x x x x

 GENDER x x x x x

 ATTAIN x x

 FAMT1 x x x x x x

 FAMT2 x x x x x x

 FAMT3 x x x x x x

 PERT1 x x x x x x

 PERT2 x x x x x x

 PERT3 x x x x x x

 MISSING DATA PATTERN FREQUENCIES

 Pattern Frequency Pattern Frequency Pattern Frequency

 1 14580 3 120 5 516

 2 508 4 87 6 42

COVARIANCE COVERAGE OF DATA FOR THE FIRST DATA SET

Minimum covariance coverage value 0.100

 PROPORTION OF DATA PRESENT

 Covariance Coverage

 EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO1T1 1.000

 EMO2T1 1.000 1.000

 EMO3T1 1.000 1.000 1.000

 EMO4T1 1.000 1.000 1.000 1.000

 EMO5T1 1.000 1.000 1.000 1.000 1.000

 REG1T1 1.000 1.000 1.000 1.000 1.000

 REG3T1 1.000 1.000 1.000 1.000 1.000

 REG4T1 1.000 1.000 1.000 1.000 1.000

 REG6T1 1.000 1.000 1.000 1.000 1.000

 EMO1T2 1.000 1.000 1.000 1.000 1.000

 EMO2T2 1.000 1.000 1.000 1.000 1.000

 EMO3T2 1.000 1.000 1.000 1.000 1.000

 EMO4T2 1.000 1.000 1.000 1.000 1.000

 EMO5T2 1.000 1.000 1.000 1.000 1.000

 REG1T2 1.000 1.000 1.000 1.000 1.000

 REG3T2 1.000 1.000 1.000 1.000 1.000

 REG4T2 1.000 1.000 1.000 1.000 1.000

 REG6T2 1.000 1.000 1.000 1.000 1.000

 EMO1T3 1.000 1.000 1.000 1.000 1.000

 EMO2T3 1.000 1.000 1.000 1.000 1.000

 EMO3T3 1.000 1.000 1.000 1.000 1.000

 EMO4T3 1.000 1.000 1.000 1.000 1.000

 EMO5T3 1.000 1.000 1.000 1.000 1.000

 REG1T3 1.000 1.000 1.000 1.000 1.000

 REG3T3 1.000 1.000 1.000 1.000 1.000

 REG4T3 1.000 1.000 1.000 1.000 1.000

 REG6T3 1.000 1.000 1.000 1.000 1.000

 ETHNICBI 1.000 1.000 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.965 0.965

 GENDER 0.997 0.997 0.997 0.997 0.997

 ATTAIN 0.927 0.927 0.927 0.927 0.927

 FAMT1 1.000 1.000 1.000 1.000 1.000

 FAMT2 1.000 1.000 1.000 1.000 1.000

 FAMT3 1.000 1.000 1.000 1.000 1.000

 PERT1 1.000 1.000 1.000 1.000 1.000

 PERT2 1.000 1.000 1.000 1.000 1.000

 PERT3 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 REG1T1 REG3T1 REG4T1 REG6T1 EMO1T2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG1T1 1.000

 REG3T1 1.000 1.000

 REG4T1 1.000 1.000 1.000

 REG6T1 1.000 1.000 1.000 1.000

 EMO1T2 1.000 1.000 1.000 1.000 1.000

 EMO2T2 1.000 1.000 1.000 1.000 1.000

 EMO3T2 1.000 1.000 1.000 1.000 1.000

 EMO4T2 1.000 1.000 1.000 1.000 1.000

 EMO5T2 1.000 1.000 1.000 1.000 1.000

 REG1T2 1.000 1.000 1.000 1.000 1.000

 REG3T2 1.000 1.000 1.000 1.000 1.000

 REG4T2 1.000 1.000 1.000 1.000 1.000

 REG6T2 1.000 1.000 1.000 1.000 1.000

 EMO1T3 1.000 1.000 1.000 1.000 1.000

 EMO2T3 1.000 1.000 1.000 1.000 1.000

 EMO3T3 1.000 1.000 1.000 1.000 1.000

 EMO4T3 1.000 1.000 1.000 1.000 1.000

 EMO5T3 1.000 1.000 1.000 1.000 1.000

 REG1T3 1.000 1.000 1.000 1.000 1.000

 REG3T3 1.000 1.000 1.000 1.000 1.000

 REG4T3 1.000 1.000 1.000 1.000 1.000

 REG6T3 1.000 1.000 1.000 1.000 1.000

 ETHNICBI 1.000 1.000 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.965 0.965

 GENDER 0.997 0.997 0.997 0.997 0.997

 ATTAIN 0.927 0.927 0.927 0.927 0.927

 FAMT1 1.000 1.000 1.000 1.000 1.000

 FAMT2 1.000 1.000 1.000 1.000 1.000

 FAMT3 1.000 1.000 1.000 1.000 1.000

 PERT1 1.000 1.000 1.000 1.000 1.000

 PERT2 1.000 1.000 1.000 1.000 1.000

 PERT3 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 EMO2T2 EMO3T2 EMO4T2 EMO5T2 REG1T2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO2T2 1.000

 EMO3T2 1.000 1.000

 EMO4T2 1.000 1.000 1.000

 EMO5T2 1.000 1.000 1.000 1.000

 REG1T2 1.000 1.000 1.000 1.000 1.000

 REG3T2 1.000 1.000 1.000 1.000 1.000

 REG4T2 1.000 1.000 1.000 1.000 1.000

 REG6T2 1.000 1.000 1.000 1.000 1.000

 EMO1T3 1.000 1.000 1.000 1.000 1.000

 EMO2T3 1.000 1.000 1.000 1.000 1.000

 EMO3T3 1.000 1.000 1.000 1.000 1.000

 EMO4T3 1.000 1.000 1.000 1.000 1.000

 EMO5T3 1.000 1.000 1.000 1.000 1.000

 REG1T3 1.000 1.000 1.000 1.000 1.000

 REG3T3 1.000 1.000 1.000 1.000 1.000

 REG4T3 1.000 1.000 1.000 1.000 1.000

 REG6T3 1.000 1.000 1.000 1.000 1.000

 ETHNICBI 1.000 1.000 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.965 0.965

 GENDER 0.997 0.997 0.997 0.997 0.997

 ATTAIN 0.927 0.927 0.927 0.927 0.927

 FAMT1 1.000 1.000 1.000 1.000 1.000

 FAMT2 1.000 1.000 1.000 1.000 1.000

 FAMT3 1.000 1.000 1.000 1.000 1.000

 PERT1 1.000 1.000 1.000 1.000 1.000

 PERT2 1.000 1.000 1.000 1.000 1.000

 PERT3 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 REG3T2 REG4T2 REG6T2 EMO1T3 EMO2T3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG3T2 1.000

 REG4T2 1.000 1.000

 REG6T2 1.000 1.000 1.000

 EMO1T3 1.000 1.000 1.000 1.000

 EMO2T3 1.000 1.000 1.000 1.000 1.000

 EMO3T3 1.000 1.000 1.000 1.000 1.000

 EMO4T3 1.000 1.000 1.000 1.000 1.000

 EMO5T3 1.000 1.000 1.000 1.000 1.000

 REG1T3 1.000 1.000 1.000 1.000 1.000

 REG3T3 1.000 1.000 1.000 1.000 1.000

 REG4T3 1.000 1.000 1.000 1.000 1.000

 REG6T3 1.000 1.000 1.000 1.000 1.000

 ETHNICBI 1.000 1.000 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.965 0.965

 GENDER 0.997 0.997 0.997 0.997 0.997

 ATTAIN 0.927 0.927 0.927 0.927 0.927

 FAMT1 1.000 1.000 1.000 1.000 1.000

 FAMT2 1.000 1.000 1.000 1.000 1.000

 FAMT3 1.000 1.000 1.000 1.000 1.000

 PERT1 1.000 1.000 1.000 1.000 1.000

 PERT2 1.000 1.000 1.000 1.000 1.000

 PERT3 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 EMO3T3 EMO4T3 EMO5T3 REG1T3 REG3T3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO3T3 1.000

 EMO4T3 1.000 1.000

 EMO5T3 1.000 1.000 1.000

 REG1T3 1.000 1.000 1.000 1.000

 REG3T3 1.000 1.000 1.000 1.000 1.000

 REG4T3 1.000 1.000 1.000 1.000 1.000

 REG6T3 1.000 1.000 1.000 1.000 1.000

 ETHNICBI 1.000 1.000 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.965 0.965

 GENDER 0.997 0.997 0.997 0.997 0.997

 ATTAIN 0.927 0.927 0.927 0.927 0.927

 FAMT1 1.000 1.000 1.000 1.000 1.000

 FAMT2 1.000 1.000 1.000 1.000 1.000

 FAMT3 1.000 1.000 1.000 1.000 1.000

 PERT1 1.000 1.000 1.000 1.000 1.000

 PERT2 1.000 1.000 1.000 1.000 1.000

 PERT3 1.000 1.000 1.000 1.000 1.000

 Covariance Coverage

 REG4T3 REG6T3 ETHNICBI SEN FSMEVER

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG4T3 1.000

 REG6T3 1.000 1.000

 ETHNICBI 1.000 1.000 1.000

 SEN 0.952 0.952 0.952 0.952

 FSMEVER 0.965 0.965 0.965 0.952 0.965

 GENDER 0.997 0.997 0.997 0.952 0.965

 ATTAIN 0.927 0.927 0.927 0.920 0.927

 FAMT1 1.000 1.000 1.000 0.952 0.965

 FAMT2 1.000 1.000 1.000 0.952 0.965

 FAMT3 1.000 1.000 1.000 0.952 0.965

 PERT1 1.000 1.000 1.000 0.952 0.965

 PERT2 1.000 1.000 1.000 0.952 0.965

 PERT3 1.000 1.000 1.000 0.952 0.965

 Covariance Coverage

 GENDER ATTAIN FAMT1 FAMT2 FAMT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 GENDER 0.997

 ATTAIN 0.927 0.927

 FAMT1 0.997 0.927 1.000

 FAMT2 0.997 0.927 1.000 1.000

 FAMT3 0.997 0.927 1.000 1.000 1.000

 PERT1 0.997 0.927 1.000 1.000 1.000

 PERT2 0.997 0.927 1.000 1.000 1.000

 PERT3 0.997 0.927 1.000 1.000 1.000

 Covariance Coverage

 PERT1 PERT2 PERT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 PERT1 1.000

 PERT2 1.000 1.000

 PERT3 1.000 1.000 1.000

UNIVARIATE PROPORTIONS FOR CATEGORICAL VARIABLES

NOTE: These are average results over 100 data sets.

 EMO1T1

 Category 1 0.432

 Category 2 0.395

 Category 3 0.173

 EMO2T1

 Category 1 0.330

 Category 2 0.402

 Category 3 0.268

 EMO3T1

 Category 1 0.572

 Category 2 0.320

 Category 3 0.108

 EMO4T1

 Category 1 0.292

 Category 2 0.426

 Category 3 0.282

 EMO5T1

 Category 1 0.501

 Category 2 0.351

 Category 3 0.148

 REG1T1

 Category 1 0.108

 Category 2 0.057

 Category 3 0.084

 Category 4 0.164

 Category 5 0.119

 Category 6 0.185

 Category 7 0.285

 REG3T1

 Category 1 0.137

 Category 2 0.122

 Category 3 0.122

 Category 4 0.155

 Category 5 0.101

 Category 6 0.145

 Category 7 0.219

 REG4T1

 Category 1 0.129

 Category 2 0.095

 Category 3 0.097

 Category 4 0.131

 Category 5 0.086

 Category 6 0.139

 Category 7 0.324

 REG6T1

 Category 1 0.100

 Category 2 0.078

 Category 3 0.091

 Category 4 0.182

 Category 5 0.120

 Category 6 0.146

 Category 7 0.283

 EMO1T2

 Category 1 0.442

 Category 2 0.377

 Category 3 0.180

 EMO2T2

 Category 1 0.329

 Category 2 0.379

 Category 3 0.291

 EMO3T2

 Category 1 0.558

 Category 2 0.323

 Category 3 0.119

 EMO4T2

 Category 1 0.271

 Category 2 0.426

 Category 3 0.303

 EMO5T2

 Category 1 0.519

 Category 2 0.343

 Category 3 0.138

 REG1T2

 Category 1 0.093

 Category 2 0.062

 Category 3 0.101

 Category 4 0.163

 Category 5 0.131

 Category 6 0.202

 Category 7 0.248

 REG3T2

 Category 1 0.122

 Category 2 0.136

 Category 3 0.134

 Category 4 0.158

 Category 5 0.110

 Category 6 0.156

 Category 7 0.183

 REG4T2

 Category 1 0.105

 Category 2 0.101

 Category 3 0.105

 Category 4 0.146

 Category 5 0.105

 Category 6 0.155

 Category 7 0.283

 REG6T2

 Category 1 0.087

 Category 2 0.083

 Category 3 0.104

 Category 4 0.198

 Category 5 0.137

 Category 6 0.161

 Category 7 0.228

 EMO1T3

 Category 1 0.417

 Category 2 0.379

 Category 3 0.204

 EMO2T3

 Category 1 0.289

 Category 2 0.380

 Category 3 0.331

 EMO3T3

 Category 1 0.511

 Category 2 0.347

 Category 3 0.142

 EMO4T3

 Category 1 0.247

 Category 2 0.419

 Category 3 0.334

 EMO5T3

 Category 1 0.520

 Category 2 0.344

 Category 3 0.136

 REG1T3

 Category 1 0.089

 Category 2 0.070

 Category 3 0.116

 Category 4 0.168

 Category 5 0.139

 Category 6 0.198

 Category 7 0.222

 REG3T3

 Category 1 0.121

 Category 2 0.135

 Category 3 0.145

 Category 4 0.170

 Category 5 0.119

 Category 6 0.153

 Category 7 0.158

 REG4T3

 Category 1 0.098

 Category 2 0.096

 Category 3 0.111

 Category 4 0.155

 Category 5 0.112

 Category 6 0.175

 Category 7 0.254

 REG6T3

 Category 1 0.084

 Category 2 0.090

 Category 3 0.106

 Category 4 0.212

 Category 5 0.148

 Category 6 0.158

 Category 7 0.202

SAMPLE STATISTICS

NOTE: These are average results over 100 data sets.

 ESTIMATED SAMPLE STATISTICS

 Means/Intercepts/Thresholds

 EMO1T1$1 EMO1T1$2 EMO2T1$1 EMO2T1$2 EMO3T1$1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.172 0.942 -0.439 0.620 0.181

 Means/Intercepts/Thresholds

 EMO3T1$2 EMO4T1$1 EMO4T1$2 EMO5T1$1 EMO5T1$2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 1.235 -0.547 0.577 0.003 1.047

 Means/Intercepts/Thresholds

 REG1T1$1 REG1T1$2 REG1T1$3 REG1T1$4 REG1T1$5

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -1.240 -0.978 -0.682 -0.224 0.076

 Means/Intercepts/Thresholds

 REG1T1$6 REG3T1$1 REG3T1$2 REG3T1$3 REG3T1$4

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.569 -1.095 -0.647 -0.304 0.089

 Means/Intercepts/Thresholds

 REG3T1$5 REG3T1$6 REG4T1$1 REG4T1$2 REG4T1$3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.349 0.776 -1.132 -0.760 -0.467

 Means/Intercepts/Thresholds

 REG4T1$4 REG4T1$5 REG4T1$6 REG6T1$1 REG6T1$2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.123 0.093 0.456 -1.282 -0.922

 Means/Intercepts/Thresholds

 REG6T1$3 REG6T1$4 REG6T1$5 REG6T1$6 EMO1T2$1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.614 -0.122 0.179 0.575 -0.145

 Means/Intercepts/Thresholds

 EMO1T2$2 EMO2T2$1 EMO2T2$2 EMO3T2$1 EMO3T2$2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.914 -0.442 0.549 0.147 1.181

 Means/Intercepts/Thresholds

 EMO4T2$1 EMO4T2$2 EMO5T2$1 EMO5T2$2 REG1T2$1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.609 0.517 0.049 1.090 -1.324

 Means/Intercepts/Thresholds

 REG1T2$2 REG1T2$3 REG1T2$4 REG1T2$5 REG1T2$6

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -1.017 -0.655 -0.203 0.126 0.680

 Means/Intercepts/Thresholds

 REG3T2$1 REG3T2$2 REG3T2$3 REG3T2$4 REG3T2$5

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -1.165 -0.648 -0.272 0.128 0.415

 Means/Intercepts/Thresholds

 REG3T2$6 REG4T2$1 REG4T2$2 REG4T2$3 REG4T2$4

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.903 -1.252 -0.820 -0.492 -0.108

 Means/Intercepts/Thresholds

 REG4T2$5 REG4T2$6 REG6T2$1 REG6T2$2 REG6T2$3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.155 0.573 -1.357 -0.951 -0.597

 Means/Intercepts/Thresholds

 REG6T2$4 REG6T2$5 REG6T2$6 EMO1T3$1 EMO1T3$2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.067 0.281 0.744 -0.210 0.826

 Means/Intercepts/Thresholds

 EMO2T3$1 EMO2T3$2 EMO3T3$1 EMO3T3$2 EMO4T3$1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.556 0.438 0.028 1.072 -0.685

 Means/Intercepts/Thresholds

 EMO4T3$2 EMO5T3$1 EMO5T3$2 REG1T3$1 REG1T3$2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.428 0.050 1.099 -1.348 -1.001

 Means/Intercepts/Thresholds

 REG1T3$3 REG1T3$4 REG1T3$5 REG1T3$6 REG3T3$1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.601 -0.147 0.202 0.766 -1.172

 Means/Intercepts/Thresholds

 REG3T3$2 REG3T3$3 REG3T3$4 REG3T3$5 REG3T3$6

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -0.658 -0.254 0.177 0.495 1.004

 Means/Intercepts/Thresholds

 REG4T3$1 REG4T3$2 REG4T3$3 REG4T3$4 REG4T3$5

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 -1.294 -0.863 -0.511 -0.103 0.179

 Means/Intercepts/Thresholds

 REG4T3$6 REG6T3$1 REG6T3$2 REG6T3$3 REG6T3$4

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.663 -1.380 -0.939 -0.582 -0.019

 Means/Intercepts/Thresholds

 REG6T3$5 REG6T3$6 ETHNICBI SEN FSMEVER

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 0.359 0.834 1.258 0.126 0.367

 Means/Intercepts/Thresholds

 GENDER ATTAIN FAMT1 FAMT2 FAMT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 1.529 102.969 17.802 17.658 17.453

 Means/Intercepts/Thresholds

 PERT1 PERT2 PERT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 5.245 5.220 5.208

 Covariances/Correlations/Residual Correlations

 EMO1T1 EMO2T1 EMO3T1 EMO4T1 EMO5T1

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO1T1

 EMO2T1 0.363

 EMO3T1 0.414 0.567

 EMO4T1 0.271 0.500 0.403

 EMO5T1 0.299 0.516 0.445 0.486

 REG1T1 -0.323 -0.425 -0.508 -0.345 -0.333

 REG3T1 -0.278 -0.382 -0.423 -0.308 -0.267

 REG4T1 -0.205 -0.145 -0.277 -0.128 -0.123

 REG6T1 -0.154 -0.211 -0.250 -0.161 -0.139

 EMO1T2 0.544 0.279 0.291 0.214 0.211

 EMO2T2 0.258 0.559 0.387 0.365 0.380

 EMO3T2 0.294 0.399 0.504 0.295 0.303

 EMO4T2 0.215 0.376 0.282 0.488 0.350

 EMO5T2 0.199 0.369 0.293 0.337 0.538

 REG1T2 -0.258 -0.328 -0.375 -0.249 -0.267

 REG3T2 -0.239 -0.318 -0.321 -0.266 -0.261

 REG4T2 -0.180 -0.114 -0.222 -0.125 -0.104

 REG6T2 -0.148 -0.181 -0.191 -0.136 -0.133

 EMO1T3 0.470 0.245 0.277 0.187 0.200

 EMO2T3 0.223 0.476 0.323 0.287 0.343

 EMO3T3 0.240 0.327 0.406 0.217 0.278

 EMO4T3 0.175 0.331 0.245 0.404 0.324

 EMO5T3 0.178 0.311 0.252 0.282 0.455

 REG1T3 -0.217 -0.266 -0.313 -0.207 -0.231

 REG3T3 -0.201 -0.287 -0.280 -0.217 -0.228

 REG4T3 -0.155 -0.096 -0.203 -0.101 -0.094

 REG6T3 -0.124 -0.138 -0.155 -0.124 -0.106

 ETHNICBI -0.052 -0.063 -0.042 -0.063 -0.032

 SEN 0.063 0.020 0.096 0.031 0.055

 FSMEVER 0.120 -0.003 0.103 0.037 0.048

 GENDER 0.107 0.199 0.096 0.127 0.181

 ATTAIN -0.113 0.010 -0.100 -0.073 -0.073

 FAMT1 -0.131 -0.075 -0.232 -0.085 -0.090

 FAMT2 -0.124 -0.064 -0.197 -0.090 -0.069

 FAMT3 -0.126 -0.064 -0.190 -0.086 -0.078

 PERT1 -0.099 -0.145 -0.303 -0.146 -0.127

 PERT2 -0.102 -0.112 -0.253 -0.133 -0.119

 PERT3 -0.072 -0.095 -0.222 -0.113 -0.100

 Covariances/Correlations/Residual Correlations

 REG1T1 REG3T1 REG4T1 REG6T1 EMO1T2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG1T1

 REG3T1 0.472

 REG4T1 0.411 0.520

 REG6T1 0.236 0.405 0.343

 EMO1T2 -0.252 -0.218 -0.146 -0.130

 EMO2T2 -0.301 -0.281 -0.089 -0.145 0.397

 EMO3T2 -0.358 -0.305 -0.190 -0.173 0.462

 EMO4T2 -0.251 -0.216 -0.085 -0.121 0.309

 EMO5T2 -0.251 -0.198 -0.075 -0.093 0.310

 REG1T2 0.451 0.336 0.283 0.172 -0.351

 REG3T2 0.337 0.412 0.258 0.222 -0.315

 REG4T2 0.322 0.288 0.404 0.185 -0.216

 REG6T2 0.198 0.223 0.173 0.236 -0.176

 EMO1T3 -0.219 -0.204 -0.122 -0.117 0.578

 EMO2T3 -0.258 -0.226 -0.055 -0.120 0.295

 EMO3T3 -0.300 -0.254 -0.148 -0.152 0.322

 EMO4T3 -0.218 -0.190 -0.063 -0.098 0.240

 EMO5T3 -0.218 -0.173 -0.056 -0.077 0.245

 REG1T3 0.370 0.276 0.218 0.137 -0.284

 REG3T3 0.287 0.333 0.184 0.165 -0.266

 REG4T3 0.280 0.257 0.328 0.151 -0.197

 REG6T3 0.136 0.170 0.104 0.178 -0.153

 ETHNICBI 0.031 0.075 0.033 0.057 -0.066

 SEN -0.093 -0.089 -0.099 -0.058 0.035

 FSMEVER -0.100 -0.064 -0.104 -0.036 0.124

 GENDER -0.024 -0.053 0.086 -0.005 0.147

 ATTAIN 0.103 0.084 0.130 0.063 -0.080

 FAMT1 0.193 0.230 0.244 0.199 -0.098

 FAMT2 0.164 0.179 0.166 0.133 -0.157

 FAMT3 0.150 0.157 0.137 0.133 -0.146

 PERT1 0.202 0.245 0.204 0.202 -0.067

 PERT2 0.184 0.192 0.162 0.145 -0.106

 PERT3 0.157 0.159 0.137 0.118 -0.081

 Covariances/Correlations/Residual Correlations

 EMO2T2 EMO3T2 EMO4T2 EMO5T2 REG1T2

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO2T2

 EMO3T2 0.624

 EMO4T2 0.555 0.464

 EMO5T2 0.540 0.469 0.524

 REG1T2 -0.457 -0.555 -0.379 -0.369

 REG3T2 -0.453 -0.476 -0.362 -0.326 0.476

 REG4T2 -0.153 -0.295 -0.139 -0.124 0.428

 REG6T2 -0.249 -0.271 -0.187 -0.179 0.245

 EMO1T3 0.314 0.356 0.232 0.234 -0.262

 EMO2T3 0.619 0.439 0.423 0.421 -0.345

 EMO3T3 0.424 0.556 0.322 0.325 -0.393

 EMO4T3 0.433 0.352 0.555 0.386 -0.284

 EMO5T3 0.394 0.331 0.379 0.577 -0.278

 REG1T3 -0.357 -0.407 -0.279 -0.282 0.502

 REG3T3 -0.380 -0.373 -0.301 -0.287 0.368

 REG4T3 -0.128 -0.233 -0.116 -0.105 0.332

 REG6T3 -0.196 -0.209 -0.157 -0.143 0.197

 ETHNICBI -0.089 -0.072 -0.082 -0.048 0.049

 SEN 0.011 0.074 0.030 0.044 -0.065

 FSMEVER -0.013 0.087 0.037 0.027 -0.100

 GENDER 0.251 0.163 0.195 0.221 -0.112

 ATTAIN 0.042 -0.050 -0.041 -0.031 0.066

 FAMT1 -0.041 -0.176 -0.069 -0.041 0.143

 FAMT2 -0.079 -0.263 -0.094 -0.089 0.201

 FAMT3 -0.080 -0.229 -0.097 -0.068 0.179

 PERT1 -0.071 -0.188 -0.099 -0.080 0.124

 PERT2 -0.128 -0.300 -0.132 -0.132 0.184

 PERT3 -0.099 -0.231 -0.120 -0.094 0.149

 Covariances/Correlations/Residual Correlations

 REG3T2 REG4T2 REG6T2 EMO1T3 EMO2T3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG3T2

 REG4T2 0.512

 REG6T2 0.413 0.355

 EMO1T3 -0.268 -0.180 -0.169

 EMO2T3 -0.340 -0.101 -0.178 0.439

 EMO3T3 -0.350 -0.216 -0.223 0.497 0.645

 EMO4T3 -0.303 -0.108 -0.161 0.349 0.582

 EMO5T3 -0.275 -0.096 -0.155 0.345 0.567

 REG1T3 0.374 0.315 0.190 -0.365 -0.498

 REG3T3 0.458 0.274 0.252 -0.347 -0.503

 REG4T3 0.282 0.456 0.203 -0.221 -0.159

 REG6T3 0.246 0.172 0.279 -0.209 -0.289

 ETHNICBI 0.107 0.047 0.076 -0.081 -0.083

 SEN -0.065 -0.096 -0.032 0.031 -0.035

 FSMEVER -0.073 -0.119 -0.030 0.099 -0.009

 GENDER -0.123 0.038 -0.035 0.184 0.311

 ATTAIN 0.067 0.131 0.038 -0.057 0.060

 FAMT1 0.154 0.170 0.133 -0.082 -0.026

 FAMT2 0.236 0.254 0.222 -0.124 -0.055

 FAMT3 0.177 0.178 0.157 -0.182 -0.097

 PERT1 0.142 0.131 0.125 -0.044 -0.024

 PERT2 0.238 0.215 0.207 -0.080 -0.051

 PERT3 0.172 0.154 0.137 -0.089 -0.092

 Covariances/Correlations/Residual Correlations

 EMO3T3 EMO4T3 EMO5T3 REG1T3 REG3T3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 EMO3T3

 EMO4T3 0.493

 EMO5T3 0.480 0.548

 REG1T3 -0.580 -0.391 -0.404

 REG3T3 -0.520 -0.399 -0.372 0.517

 REG4T3 -0.305 -0.144 -0.137 0.420 0.483

 REG6T3 -0.318 -0.208 -0.194 0.259 0.458

 ETHNICBI -0.093 -0.101 -0.037 0.074 0.097

 SEN 0.028 0.016 0.023 -0.030 -0.036

 FSMEVER 0.079 0.023 0.034 -0.096 -0.063

 GENDER 0.211 0.237 0.252 -0.186 -0.191

 ATTAIN -0.022 -0.034 -0.030 0.034 0.031

 FAMT1 -0.142 -0.048 -0.027 0.111 0.109

 FAMT2 -0.197 -0.078 -0.042 0.133 0.161

 FAMT3 -0.288 -0.114 -0.094 0.205 0.259

 PERT1 -0.127 -0.050 -0.027 0.071 0.094

 PERT2 -0.183 -0.089 -0.059 0.099 0.131

 PERT3 -0.283 -0.124 -0.115 0.153 0.228

 Covariances/Correlations/Residual Correlations

 REG4T3 REG6T3 ETHNICBI SEN FSMEVER

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 REG4T3

 REG6T3 0.357

 ETHNICBI 0.059 0.081 0.191

 SEN -0.077 -0.039 -0.019 0.110

 FSMEVER -0.118 -0.020 0.108 0.132 0.232

 GENDER 0.002 -0.077 0.000 -0.131 -0.007

 ATTAIN 0.122 0.045 0.119 -0.377 -0.183

 FAMT1 0.146 0.094 0.007 -0.119 -0.094

 FAMT2 0.180 0.131 0.036 -0.101 -0.087

 FAMT3 0.265 0.218 0.039 -0.076 -0.104

 PERT1 0.113 0.099 0.014 -0.130 -0.066

 PERT2 0.151 0.127 0.060 -0.131 -0.061

 PERT3 0.211 0.210 0.091 -0.121 -0.066

 Covariances/Correlations/Residual Correlations

 GENDER ATTAIN FAMT1 FAMT2 FAMT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 GENDER 0.249

 ATTAIN 0.108 43.359

 FAMT1 0.074 0.142 7.571

 FAMT2 0.047 0.112 0.461 8.963

 FAMT3 0.009 0.099 0.391 0.513 10.250

 PERT1 0.200 0.125 0.397 0.249 0.227

 PERT2 0.193 0.130 0.275 0.416 0.285

 PERT3 0.167 0.110 0.237 0.293 0.431

 Covariances/Correlations/Residual Correlations

 PERT1 PERT2 PERT3

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

 PERT1 1.298

 PERT2 0.506 1.359

 PERT3 0.417 0.534 1.399

MODEL FIT INFORMATION

Number of Free Parameters 222

Chi-Square Test of Model Fit

 Degrees of freedom 605

 Mean 9484.713

 Std Dev 124.282

 Number of successful computations 100

 Proportions Percentiles

 Expected Observed Expected Observed

 0.990 1.000 527.030 9205.036

 0.980 1.000 535.723 9246.894

 0.950 1.000 548.943 9282.628

 0.900 1.000 560.871 9308.413

 0.800 1.000 575.547 9375.365

 0.700 1.000 586.287 9412.477

 0.500 1.000 604.333 9473.200

 0.300 1.000 622.747 9548.511

 0.200 1.000 634.065 9592.878

 0.100 1.000 649.985 9662.505

 0.050 1.000 663.331 9694.372

 0.020 1.000 678.566 9725.474

 0.010 1.000 688.851 9743.497

RMSEA (Root Mean Square Error Of Approximation)

 Mean 0.030

 Std Dev 0.000

 Number of successful computations 100

 Proportions Percentiles

 Expected Observed Expected Observed

 0.990 1.000 0.030 0.030

 0.980 0.990 0.030 0.030

 0.950 0.960 0.030 0.030

 0.900 0.890 0.030 0.030

 0.800 0.800 0.030 0.030

 0.700 0.700 0.030 0.030

 0.500 0.500 0.030 0.030

 0.300 0.300 0.031 0.031

 0.200 0.220 0.031 0.031

 0.100 0.110 0.031 0.031

 0.050 0.060 0.031 0.031

 0.020 0.020 0.031 0.031

 0.010 0.000 0.031 0.031

CFI/TLI

 CFI

 Mean 0.929

 Std Dev 0.002

 Number of successful computations 100

 Proportions Percentiles

 Expected Observed Expected Observed

 0.990 0.990 0.925 0.925

 0.980 0.990 0.926 0.926

 0.950 0.960 0.926 0.926

 0.900 0.920 0.927 0.927

 0.800 0.800 0.928 0.928

 0.700 0.630 0.928 0.928

 0.500 0.480 0.929 0.929

 0.300 0.300 0.930 0.930

 0.200 0.190 0.930 0.930

 0.100 0.120 0.931 0.931

 0.050 0.080 0.932 0.932

 0.020 0.020 0.932 0.932

 0.010 0.000 0.933 0.932

 TLI

 Mean 0.917

 Std Dev 0.002

 Number of successful computations 100

 Proportions Percentiles

 Expected Observed Expected Observed

 0.990 0.990 0.913 0.912

 0.980 0.990 0.914 0.914

 0.950 0.960 0.914 0.914

 0.900 0.920 0.915 0.915

 0.800 0.800 0.916 0.916

 0.700 0.630 0.916 0.916

 0.500 0.480 0.917 0.917

 0.300 0.300 0.918 0.918

 0.200 0.190 0.919 0.919

 0.100 0.120 0.920 0.920

 0.050 0.080 0.921 0.921

 0.020 0.020 0.921 0.921

 0.010 0.000 0.922 0.921

SRMR (Standardized Root Mean Square Residual)

 Mean 0.042

 Std Dev 0.000

 Number of successful computations 100

 Proportions Percentiles

 Expected Observed Expected Observed

 0.990 0.000 0.042 0.042

 0.980 0.000 0.042 0.042

 0.950 0.000 0.042 0.042

 0.900 0.000 0.042 0.042

 0.800 0.000 0.042 0.042

 0.700 0.000 0.042 0.042

 0.500 0.000 0.042 0.042

 0.300 0.000 0.042 0.042

 0.200 0.000 0.042 0.042

 0.100 0.000 0.042 0.042

 0.050 0.000 0.042 0.042

 0.020 0.000 0.042 0.042

 0.010 0.000 0.042 0.042

MODEL RESULTS

 Two-Tailed Rate of

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

 F\_EMO1 BY

 EMO1T1 1.000 0.000 999.000 999.000 0.000

 EMO2T1 1.821 0.045 40.432 0.000 0.160

 EMO3T1 2.151 0.055 39.277 0.000 0.225

 EMO4T1 1.266 0.031 40.196 0.000 0.183

 EMO5T1 1.252 0.033 37.878 0.000 0.194

 F\_EMO2 BY

 EMO1T2 1.000 0.000 999.000 999.000 0.000

 EMO2T2 1.821 0.045 40.432 0.000 0.160

 EMO3T2 2.151 0.055 39.277 0.000 0.225

 EMO4T2 1.266 0.031 40.196 0.000 0.183

 EMO5T2 1.252 0.033 37.878 0.000 0.194

 F\_EMO3 BY

 EMO1T3 1.000 0.000 999.000 999.000 0.000

 EMO2T3 1.821 0.045 40.432 0.000 0.160

 EMO3T3 2.151 0.055 39.277 0.000 0.225

 EMO4T3 1.266 0.031 40.196 0.000 0.183

 EMO5T3 1.252 0.033 37.878 0.000 0.194

 F\_REG1 BY

 REG1T1 1.000 0.000 999.000 999.000 0.000

 REG3T1 1.023 0.021 48.140 0.000 0.386

 REG4T1 0.541 0.012 43.687 0.000 0.286

 REG6T1 0.457 0.012 36.585 0.000 0.230

 F\_REG2 BY

 REG1T2 1.000 0.000 999.000 999.000 0.000

 REG3T2 1.023 0.021 48.140 0.000 0.386

 REG4T2 0.541 0.012 43.687 0.000 0.286

 REG6T2 0.457 0.012 36.585 0.000 0.230

 F\_REG3 BY

 REG1T3 1.000 0.000 999.000 999.000 0.000

 REG3T3 1.023 0.021 48.140 0.000 0.386

 REG4T3 0.541 0.012 43.687 0.000 0.286

 REG6T3 0.457 0.012 36.585 0.000 0.230

 RI\_FAM BY

 FAMT1 1.000 0.000 999.000 999.000 0.000

 FAMT2 1.000 0.000 999.000 999.000 0.000

 FAMT3 1.000 0.000 999.000 999.000 0.000

 RI\_PER BY

 PERT1 1.000 0.000 999.000 999.000 0.000

 PERT2 1.000 0.000 999.000 999.000 0.000

 PERT3 1.000 0.000 999.000 999.000 0.000

 W\_FAM1 BY

 FAMT1 1.000 0.000 999.000 999.000 0.000

 W\_FAM2 BY

 FAMT2 1.000 0.000 999.000 999.000 0.000

 W\_FAM3 BY

 FAMT3 1.000 0.000 999.000 999.000 0.000

 W\_PER1 BY

 PERT1 1.000 0.000 999.000 999.000 0.000

 W\_PER2 BY

 PERT2 1.000 0.000 999.000 999.000 0.000

 W\_PER3 BY

 PERT3 1.000 0.000 999.000 999.000 0.000

 RI\_EMO BY

 F\_EMO1 1.000 0.000 999.000 999.000 0.000

 F\_EMO2 1.000 0.000 999.000 999.000 0.000

 F\_EMO3 1.000 0.000 999.000 999.000 0.000

 RI\_REG BY

 F\_REG1 1.000 0.000 999.000 999.000 0.000

 F\_REG2 1.000 0.000 999.000 999.000 0.000

 F\_REG3 1.000 0.000 999.000 999.000 0.000

 W\_EMO1 BY

 F\_EMO1 1.000 0.000 999.000 999.000 0.000

 W\_EMO2 BY

 F\_EMO2 1.000 0.000 999.000 999.000 0.000

 W\_EMO3 BY

 F\_EMO3 1.000 0.000 999.000 999.000 0.000

 W\_REG1 BY

 F\_REG1 1.000 0.000 999.000 999.000 0.000

 W\_REG2 BY

 F\_REG2 1.000 0.000 999.000 999.000 0.000

 W\_REG3 BY

 F\_REG3 1.000 0.000 999.000 999.000 0.000

 W\_EMO2 ON

 W\_EMO1 0.379 0.060 6.279 0.000 0.304

 W\_REG1 -0.027 0.023 -1.165 0.244 0.288

 W\_FAM1 0.004 0.005 0.658 0.510 0.342

 W\_PER1 0.010 0.012 0.891 0.373 0.340

 W\_EMO3 ON

 W\_EMO2 0.402 0.052 7.687 0.000 0.346

 W\_REG2 -0.079 0.029 -2.691 0.007 0.367

 W\_FAM2 -0.002 0.004 -0.372 0.710 0.410

 W\_PER2 0.031 0.010 2.959 0.003 0.447

 W\_REG2 ON

 W\_REG1 0.229 0.050 4.538 0.000 0.435

 W\_EMO1 -0.415 0.091 -4.563 0.000 0.409

 W\_FAM1 0.010 0.010 1.030 0.303 0.316

 W\_PER1 -0.037 0.022 -1.694 0.090 0.447

 W\_REG3 ON

 W\_REG2 0.320 0.070 4.565 0.000 0.428

 W\_EMO2 -0.311 0.101 -3.080 0.002 0.415

 W\_FAM2 0.006 0.007 0.757 0.449 0.413

 W\_PER2 -0.045 0.019 -2.408 0.016 0.443

 W\_FAM2 ON

 W\_FAM1 0.089 0.028 3.233 0.001 0.569

 W\_EMO1 -0.045 0.184 -0.246 0.806 0.362

 W\_REG1 0.275 0.089 3.071 0.002 0.412

 W\_PER1 0.019 0.051 0.366 0.715 0.453

 W\_FAM3 ON

 W\_FAM2 0.239 0.018 13.036 0.000 0.636

 W\_EMO2 0.029 0.226 0.127 0.899 0.532

 W\_REG2 0.293 0.136 2.152 0.031 0.536

 W\_PER2 0.143 0.051 2.800 0.005 0.505

 W\_PER2 ON

 W\_PER1 0.197 0.024 8.113 0.000 0.590

 W\_EMO1 -0.142 0.076 -1.876 0.061 0.437

 W\_REG1 0.062 0.035 1.795 0.073 0.458

 W\_FAM1 -0.003 0.007 -0.367 0.714 0.423

 W\_PER3 ON

 W\_PER2 0.259 0.023 11.370 0.000 0.557

 W\_EMO2 -0.077 0.087 -0.884 0.376 0.434

 W\_REG2 0.013 0.052 0.245 0.806 0.503

 W\_FAM2 0.013 0.006 2.251 0.024 0.489

 F\_EMO1 ON

 ATTAIN -0.006 0.001 -5.546 0.000 0.064

 GENDER 0.289 0.014 21.011 0.000 0.053

 ETHNICBI -0.132 0.023 -5.836 0.000 0.139

 SEN 0.144 0.022 6.555 0.000 0.064

 FSMEVER 0.110 0.017 6.353 0.000 0.040

 F\_EMO2 ON

 GENDER 0.396 0.017 23.703 0.000 0.100

 ETHNICBI -0.223 0.028 -8.045 0.000 0.197

 SEN 0.191 0.025 7.481 0.000 0.120

 FSMEVER 0.123 0.019 6.475 0.000 0.109

 F\_EMO3 ON

 GENDER 0.501 0.020 25.334 0.000 0.120

 ETHNICBI -0.260 0.031 -8.466 0.000 0.221

 SEN 0.122 0.028 4.355 0.000 0.193

 FSMEVER 0.120 0.019 6.446 0.000 0.153

 F\_REG1 ON

 ATTAIN 0.010 0.002 5.190 0.000 0.066

 GENDER -0.086 0.029 -3.002 0.003 0.054

 ETHNICBI 0.273 0.050 5.473 0.000 0.122

 SEN -0.411 0.042 -9.895 0.000 0.077

 FSMEVER -0.261 0.027 -9.594 0.000 0.073

 F\_REG2 ON

 GENDER -0.297 0.027 -10.879 0.000 0.141

 ETHNICBI 0.413 0.048 8.680 0.000 0.313

 SEN -0.386 0.043 -8.880 0.000 0.184

 FSMEVER -0.336 0.031 -10.705 0.000 0.160

 F\_REG3 ON

 GENDER -0.494 0.031 -15.754 0.000 0.171

 ETHNICBI 0.481 0.050 9.607 0.000 0.350

 SEN -0.292 0.044 -6.660 0.000 0.330

 FSMEVER -0.327 0.032 -10.324 0.000 0.247

 FAMT1 ON

 ATTAIN 0.039 0.005 8.176 0.000 0.030

 GENDER 0.317 0.055 5.787 0.000 0.072

 ETHNICBI -0.053 0.097 -0.550 0.582 0.039

 SEN -0.599 0.078 -7.654 0.000 0.073

 FSMEVER -0.351 0.056 -6.294 0.000 0.032

 FAMT2 ON

 GENDER 0.205 0.070 2.936 0.003 0.093

 ETHNICBI 0.497 0.124 4.004 0.000 0.156

 SEN -0.936 0.104 -8.999 0.000 0.188

 FSMEVER -0.551 0.065 -8.497 0.000 0.145

 FAMT3 ON

 GENDER 0.008 0.077 0.107 0.915 0.123

 ETHNICBI 0.639 0.149 4.303 0.000 0.226

 SEN -0.756 0.120 -6.284 0.000 0.311

 FSMEVER -0.753 0.075 -9.987 0.000 0.191

 PERT1 ON

 ATTAIN 0.010 0.002 5.007 0.000 0.043

 GENDER 0.440 0.023 19.002 0.000 0.043

 ETHNICBI 0.008 0.036 0.219 0.826 0.066

 SEN -0.293 0.037 -7.882 0.000 0.057

 FSMEVER -0.097 0.023 -4.148 0.000 0.039

 PERT2 ON

 GENDER 0.409 0.025 16.361 0.000 0.103

 ETHNICBI 0.252 0.037 6.753 0.000 0.225

 SEN -0.421 0.042 -9.936 0.000 0.190

 FSMEVER -0.152 0.025 -6.154 0.000 0.148

 PERT3 ON

 GENDER 0.347 0.027 12.943 0.000 0.138

 ETHNICBI 0.369 0.048 7.614 0.000 0.346

 SEN -0.385 0.044 -8.773 0.000 0.338

 FSMEVER -0.187 0.027 -7.029 0.000 0.242

 W\_EMO1 WITH

 W\_REG1 -0.253 0.019 -13.513 0.000 0.273

 W\_FAM1 -0.101 0.026 -3.876 0.000 0.371

 W\_PER1 -0.078 0.011 -7.196 0.000 0.333

 RI\_EMO 0.000 0.000 999.000 999.000 0.000

 RI\_REG 0.000 0.000 999.000 999.000 0.000

 RI\_FAM 0.000 0.000 999.000 999.000 0.000

 RI\_PER 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 W\_REG1 WITH

 W\_FAM1 0.446 0.054 8.249 0.000 0.382

 W\_PER1 0.205 0.020 10.435 0.000 0.328

 RI\_EMO 0.000 0.000 999.000 999.000 0.000

 RI\_REG 0.000 0.000 999.000 999.000 0.000

 RI\_FAM 0.000 0.000 999.000 999.000 0.000

 RI\_PER 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 W\_FAM1 WITH

 W\_PER1 0.485 0.039 12.403 0.000 0.355

 RI\_EMO 0.000 0.000 999.000 999.000 0.000

 RI\_REG 0.000 0.000 999.000 999.000 0.000

 RI\_FAM 0.000 0.000 999.000 999.000 0.000

 RI\_PER 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 W\_EMO2 WITH

 W\_REG2 -0.244 0.011 -22.055 0.000 0.222

 W\_FAM2 -0.148 0.023 -6.335 0.000 0.288

 W\_PER2 -0.069 0.009 -7.957 0.000 0.225

 W\_REG2 WITH

 W\_FAM2 0.481 0.043 11.289 0.000 0.401

 W\_PER2 0.172 0.015 11.570 0.000 0.362

 W\_FAM2 WITH

 W\_PER2 0.642 0.048 13.432 0.000 0.208

 W\_EMO3 WITH

 W\_REG3 -0.255 0.010 -25.207 0.000 0.313

 W\_FAM3 -0.186 0.019 -9.894 0.000 0.439

 W\_PER3 -0.055 0.008 -6.696 0.000 0.461

 W\_REG3 WITH

 W\_FAM3 0.558 0.035 15.743 0.000 0.363

 W\_PER3 0.165 0.013 12.327 0.000 0.451

 W\_FAM3 WITH

 W\_PER3 0.760 0.029 25.831 0.000 0.339

 RI\_EMO WITH

 W\_PER1 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 RI\_REG WITH

 W\_PER1 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 RI\_EMO -0.210 0.018 -11.844 0.000 0.261

 RI\_FAM WITH

 W\_PER1 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 RI\_EMO -0.193 0.028 -6.888 0.000 0.299

 RI\_REG 0.499 0.054 9.171 0.000 0.338

 RI\_PER WITH

 W\_PER1 0.000 0.000 999.000 999.000 0.000

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 RI\_EMO -0.110 0.011 -10.353 0.000 0.321

 RI\_REG 0.203 0.020 10.293 0.000 0.314

 RI\_FAM 0.644 0.037 17.265 0.000 0.382

 W\_PER1 WITH

 GENDER 0.000 0.000 999.000 999.000 0.000

 ETHNICBI 0.000 0.000 999.000 999.000 0.000

 SEN 0.000 0.000 999.000 999.000 0.000

 FSMEVER 0.000 0.000 999.000 999.000 0.000

 ATTAIN 0.000 0.000 999.000 999.000 0.000

 EMO1T1 WITH

 EMO1T2 0.489 0.011 43.012 0.000 0.170

 EMO1T3 0.428 0.013 32.090 0.000 0.317

 EMO1T2 WITH

 EMO1T3 0.514 0.013 41.059 0.000 0.296

 EMO2T1 WITH

 EMO2T2 0.399 0.017 23.320 0.000 0.209

 EMO2T3 0.347 0.019 17.823 0.000 0.250

 EMO2T2 WITH

 EMO2T3 0.469 0.019 25.175 0.000 0.342

 EMO3T1 WITH

 EMO3T2 0.176 0.025 6.957 0.000 0.208

 EMO3T3 0.083 0.026 3.205 0.001 0.365

 EMO3T2 WITH

 EMO3T3 0.208 0.026 8.028 0.000 0.376

 EMO4T1 WITH

 EMO4T2 0.364 0.014 26.494 0.000 0.193

 EMO4T3 0.292 0.015 19.476 0.000 0.292

 EMO4T2 WITH

 EMO4T3 0.434 0.015 29.030 0.000 0.370

 EMO5T1 WITH

 EMO5T2 0.449 0.014 32.080 0.000 0.174

 EMO5T3 0.381 0.016 24.352 0.000 0.239

 EMO5T2 WITH

 EMO5T3 0.474 0.015 31.218 0.000 0.300

 REG1T1 WITH

 REG1T2 0.204 0.017 12.292 0.000 0.283

 REG1T3 0.190 0.018 10.344 0.000 0.299

 REG1T2 WITH

 REG1T3 0.258 0.017 15.074 0.000 0.395

 REG3T1 WITH

 REG3T2 0.100 0.015 6.747 0.000 0.351

 REG3T3 0.092 0.017 5.281 0.000 0.414

 REG3T2 WITH

 REG3T3 0.141 0.016 8.833 0.000 0.435

 REG4T1 WITH

 REG4T2 0.314 0.012 26.189 0.000 0.225

 REG4T3 0.258 0.012 21.066 0.000 0.348

 REG4T2 WITH

 REG4T3 0.367 0.011 33.179 0.000 0.423

 REG6T1 WITH

 REG6T2 0.124 0.010 12.536 0.000 0.279

 REG6T3 0.086 0.012 7.118 0.000 0.430

 REG6T2 WITH

 REG6T3 0.166 0.012 14.096 0.000 0.370

 SEN WITH

 ETHNICBI -0.001 0.002 -0.404 0.686 0.003

 FSMEVER WITH

 ETHNICBI 0.031 0.006 5.212 0.000 0.014

 SEN 0.020 0.002 10.134 0.000 0.001

 GENDER WITH

 ETHNICBI 0.002 0.010 0.205 0.837 0.021

 SEN -0.021 0.002 -9.624 0.000 0.002

 FSMEVER -0.001 0.004 -0.255 0.799 0.001

 ATTAIN WITH

 ETHNICBI 0.535 0.079 6.741 0.000 0.024

 SEN -0.916 0.047 -19.492 0.000 0.009

 FSMEVER -0.703 0.069 -10.221 0.000 0.005

 GENDER 0.351 0.100 3.507 0.000 0.019

 Means

 ETHNICBI 1.258 0.033 38.253 0.000 0.000

 SEN 0.126 0.007 16.860 0.000 0.000

 FSMEVER 0.367 0.018 20.071 0.000 0.000

 GENDER 1.529 0.020 75.163 0.000 0.000

 ATTAIN 102.969 0.326 316.144 0.000 0.000

 Intercepts

 FAMT1 13.579 0.468 28.997 0.000 0.032

 FAMT2 17.041 0.174 97.669 0.000 0.150

 FAMT3 17.009 0.202 84.280 0.000 0.240

 PERT1 3.587 0.201 17.810 0.000 0.041

 PERT2 4.386 0.058 75.448 0.000 0.202

 PERT3 4.330 0.064 67.344 0.000 0.358

 F\_EMO1 0.000 0.000 999.000 999.000 0.000

 F\_EMO2 -0.688 0.117 -5.870 0.000 0.071

 F\_EMO3 -0.727 0.114 -6.374 0.000 0.085

 F\_REG1 0.000 0.000 999.000 999.000 0.000

 F\_REG2 1.108 0.195 5.685 0.000 0.092

 F\_REG3 1.250 0.200 6.251 0.000 0.107

 Thresholds

 EMO1T1$1 -0.486 0.114 -4.263 0.000 0.049

 EMO1T1$2 0.799 0.113 7.043 0.000 0.049

 EMO2T1$1 -1.250 0.205 -6.083 0.000 0.051

 EMO2T1$2 0.345 0.205 1.682 0.092 0.049

 EMO3T1$1 -0.382 0.244 -1.567 0.117 0.049

 EMO3T1$2 1.431 0.245 5.850 0.000 0.048

 EMO4T1$1 -1.154 0.144 -8.033 0.000 0.051

 EMO4T1$2 0.319 0.142 2.249 0.024 0.051

 EMO5T1$1 -0.298 0.143 -2.090 0.037 0.048

 EMO5T1$2 1.044 0.142 7.364 0.000 0.050

 REG1T1$1 -0.998 0.189 -5.287 0.000 0.048

 REG1T1$2 -0.532 0.188 -2.827 0.005 0.048

 REG1T1$3 0.014 0.188 0.072 0.942 0.048

 REG1T1$4 0.709 0.190 3.741 0.000 0.048

 REG1T1$5 1.211 0.189 6.412 0.000 0.049

 REG1T1$6 2.022 0.187 10.798 0.000 0.052

 REG3T1$1 -0.755 0.190 -3.965 0.000 0.048

 REG3T1$2 0.015 0.189 0.080 0.936 0.048

 REG3T1$3 0.597 0.189 3.152 0.002 0.048

 REG3T1$4 1.229 0.190 6.451 0.000 0.048

 REG3T1$5 1.672 0.190 8.823 0.000 0.048

 REG3T1$6 2.402 0.189 12.741 0.000 0.052

 REG4T1$1 -0.906 0.106 -8.551 0.000 0.045

 REG4T1$2 -0.420 0.106 -3.960 0.000 0.044

 REG4T1$3 -0.032 0.105 -0.308 0.758 0.045

 REG4T1$4 0.411 0.107 3.859 0.000 0.044

 REG4T1$5 0.709 0.105 6.734 0.000 0.045

 REG4T1$6 1.199 0.103 11.671 0.000 0.048

 REG6T1$1 -1.054 0.086 -12.265 0.000 0.045

 REG6T1$2 -0.603 0.084 -7.157 0.000 0.048

 REG6T1$3 -0.218 0.084 -2.597 0.009 0.049

 REG6T1$4 0.380 0.084 4.520 0.000 0.051

 REG6T1$5 0.765 0.084 9.079 0.000 0.053

 REG6T1$6 1.272 0.085 15.036 0.000 0.052

 EMO1T2$1 -0.486 0.114 -4.263 0.000 0.049

 EMO1T2$2 0.799 0.113 7.043 0.000 0.049

 EMO2T2$1 -1.250 0.205 -6.083 0.000 0.051

 EMO2T2$2 0.345 0.205 1.682 0.092 0.049

 EMO3T2$1 -0.382 0.244 -1.567 0.117 0.049

 EMO3T2$2 1.431 0.245 5.850 0.000 0.048

 EMO4T2$1 -1.154 0.144 -8.033 0.000 0.051

 EMO4T2$2 0.319 0.142 2.249 0.024 0.051

 EMO5T2$1 -0.298 0.143 -2.090 0.037 0.048

 EMO5T2$2 1.044 0.142 7.364 0.000 0.050

 REG1T2$1 -0.998 0.189 -5.287 0.000 0.048

 REG1T2$2 -0.532 0.188 -2.827 0.005 0.048

 REG1T2$3 0.014 0.188 0.072 0.942 0.048

 REG1T2$4 0.709 0.190 3.741 0.000 0.048

 REG1T2$5 1.211 0.189 6.412 0.000 0.049

 REG1T2$6 2.022 0.187 10.798 0.000 0.052

 REG3T2$1 -0.755 0.190 -3.965 0.000 0.048

 REG3T2$2 0.015 0.189 0.080 0.936 0.048

 REG3T2$3 0.597 0.189 3.152 0.002 0.048

 REG3T2$4 1.229 0.190 6.451 0.000 0.048

 REG3T2$5 1.672 0.190 8.823 0.000 0.048

 REG3T2$6 2.402 0.189 12.741 0.000 0.052

 REG4T2$1 -0.906 0.106 -8.551 0.000 0.045

 REG4T2$2 -0.420 0.106 -3.960 0.000 0.044

 REG4T2$3 -0.032 0.105 -0.308 0.758 0.045

 REG4T2$4 0.411 0.107 3.859 0.000 0.044

 REG4T2$5 0.709 0.105 6.734 0.000 0.045

 REG4T2$6 1.199 0.103 11.671 0.000 0.048

 REG6T2$1 -1.054 0.086 -12.265 0.000 0.045

 REG6T2$2 -0.603 0.084 -7.157 0.000 0.048

 REG6T2$3 -0.218 0.084 -2.597 0.009 0.049

 REG6T2$4 0.380 0.084 4.520 0.000 0.051

 REG6T2$5 0.765 0.084 9.079 0.000 0.053

 REG6T2$6 1.272 0.085 15.036 0.000 0.052

 EMO1T3$1 -0.486 0.114 -4.263 0.000 0.049

 EMO1T3$2 0.799 0.113 7.043 0.000 0.049

 EMO2T3$1 -1.250 0.205 -6.083 0.000 0.051

 EMO2T3$2 0.345 0.205 1.682 0.092 0.049

 EMO3T3$1 -0.382 0.244 -1.567 0.117 0.049

 EMO3T3$2 1.431 0.245 5.850 0.000 0.048

 EMO4T3$1 -1.154 0.144 -8.033 0.000 0.051

 EMO4T3$2 0.319 0.142 2.249 0.024 0.051

 EMO5T3$1 -0.298 0.143 -2.090 0.037 0.048

 EMO5T3$2 1.044 0.142 7.364 0.000 0.050

 REG1T3$1 -0.998 0.189 -5.287 0.000 0.048

 REG1T3$2 -0.532 0.188 -2.827 0.005 0.048

 REG1T3$3 0.014 0.188 0.072 0.942 0.048

 REG1T3$4 0.709 0.190 3.741 0.000 0.048

 REG1T3$5 1.211 0.189 6.412 0.000 0.049

 REG1T3$6 2.022 0.187 10.798 0.000 0.052

 REG3T3$1 -0.755 0.190 -3.965 0.000 0.048

 REG3T3$2 0.015 0.189 0.080 0.936 0.048

 REG3T3$3 0.597 0.189 3.152 0.002 0.048

 REG3T3$4 1.229 0.190 6.451 0.000 0.048

 REG3T3$5 1.672 0.190 8.823 0.000 0.048

 REG3T3$6 2.402 0.189 12.741 0.000 0.052

 REG4T3$1 -0.906 0.106 -8.551 0.000 0.045

 REG4T3$2 -0.420 0.106 -3.960 0.000 0.044

 REG4T3$3 -0.032 0.105 -0.308 0.758 0.045

 REG4T3$4 0.411 0.107 3.859 0.000 0.044

 REG4T3$5 0.709 0.105 6.734 0.000 0.045

 REG4T3$6 1.199 0.103 11.671 0.000 0.048

 REG6T3$1 -1.054 0.086 -12.265 0.000 0.045

 REG6T3$2 -0.603 0.084 -7.157 0.000 0.048

 REG6T3$3 -0.218 0.084 -2.597 0.009 0.049

 REG6T3$4 0.380 0.084 4.520 0.000 0.051

 REG6T3$5 0.765 0.084 9.079 0.000 0.053

 REG6T3$6 1.272 0.085 15.036 0.000 0.052

 Variances

 ETHNICBI 0.151 0.018 8.529 0.000 0.095

 SEN 0.097 0.007 14.589 0.000 0.015

 FSMEVER 0.230 0.005 44.678 0.000 0.001

 GENDER 0.249 0.001 214.298 0.000 0.000

 ATTAIN 43.344 1.611 26.904 0.000 0.000

 RI\_EMO 0.164 0.013 12.879 0.000 0.301

 RI\_REG 0.501 0.040 12.525 0.000 0.298

 RI\_FAM 3.081 0.135 22.788 0.000 0.393

 RI\_PER 0.430 0.021 20.803 0.000 0.371

 W\_EMO1 0.188 0.013 14.301 0.000 0.239

 W\_REG1 0.808 0.050 16.292 0.000 0.312

 W\_FAM1 4.249 0.133 32.030 0.000 0.449

 W\_PER1 0.787 0.024 33.172 0.000 0.296

 Residual Variances

 FAMT1 0.000 0.000 999.000 999.000 0.000

 FAMT2 0.000 0.000 999.000 999.000 0.000

 FAMT3 0.000 0.000 999.000 999.000 0.000

 PERT1 0.000 0.000 999.000 999.000 0.000

 PERT2 0.000 0.000 999.000 999.000 0.000

 PERT3 0.000 0.000 999.000 999.000 0.000

 F\_EMO1 0.000 0.000 999.000 999.000 0.000

 F\_EMO2 0.000 0.000 999.000 999.000 0.000

 F\_EMO3 0.000 0.000 999.000 999.000 0.000

 F\_REG1 0.000 0.000 999.000 999.000 0.000

 F\_REG2 0.000 0.000 999.000 999.000 0.000

 F\_REG3 0.000 0.000 999.000 999.000 0.000

 W\_EMO2 0.197 0.010 18.930 0.000 0.203

 W\_EMO3 0.205 0.010 20.155 0.000 0.230

 W\_REG2 0.603 0.032 18.739 0.000 0.236

 W\_REG3 0.584 0.029 19.959 0.000 0.345

 W\_FAM2 5.532 0.164 33.787 0.000 0.356

 W\_FAM3 6.376 0.105 60.862 0.000 0.498

 W\_PER2 0.787 0.022 35.976 0.000 0.175

 W\_PER3 0.819 0.017 49.052 0.000 0.260

STANDARDIZED MODEL RESULTS

STDYX Standardization

 Two-Tailed Rate of

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

 F\_EMO1 BY

 EMO1T1 0.526 0.007 71.782 0.000 0.143

 EMO2T1 0.748 0.006 133.330 0.000 0.115

 EMO3T1 0.799 0.006 132.471 0.000 0.211

 EMO4T1 0.616 0.006 97.946 0.000 0.131

 EMO5T1 0.612 0.008 79.499 0.000 0.141

 F\_EMO2 BY

 EMO1T2 0.554 0.007 75.403 0.000 0.181

 EMO2T2 0.771 0.005 158.385 0.000 0.196

 EMO3T2 0.820 0.006 144.471 0.000 0.221

 EMO4T2 0.644 0.007 94.737 0.000 0.205

 EMO5T2 0.640 0.008 81.694 0.000 0.163

 F\_EMO3 BY

 EMO1T3 0.578 0.008 72.112 0.000 0.204

 EMO2T3 0.790 0.006 135.087 0.000 0.219

 EMO3T3 0.836 0.006 146.566 0.000 0.232

 EMO4T3 0.668 0.007 97.075 0.000 0.274

 EMO5T3 0.663 0.008 86.712 0.000 0.222

 F\_REG1 BY

 REG1T1 0.760 0.006 131.624 0.000 0.277

 REG3T1 0.767 0.005 143.399 0.000 0.255

 REG4T1 0.535 0.006 83.994 0.000 0.207

 REG6T1 0.472 0.007 70.611 0.000 0.164

 F\_REG2 BY

 REG1T2 0.753 0.006 126.270 0.000 0.204

 REG3T2 0.760 0.006 130.301 0.000 0.307

 REG4T2 0.526 0.007 77.308 0.000 0.278

 REG6T2 0.463 0.008 58.870 0.000 0.223

 F\_REG3 BY

 REG1T3 0.758 0.006 126.144 0.000 0.291

 REG3T3 0.766 0.006 131.381 0.000 0.359

 REG4T3 0.533 0.007 77.614 0.000 0.348

 REG6T3 0.470 0.008 60.367 0.000 0.324

 RI\_FAM BY

 FAMT1 0.638 0.013 49.894 0.000 0.485

 FAMT2 0.586 0.013 44.636 0.000 0.443

 FAMT3 0.548 0.010 55.647 0.000 0.504

 RI\_PER BY

 PERT1 0.576 0.013 44.841 0.000 0.437

 PERT2 0.564 0.013 42.641 0.000 0.387

 PERT3 0.555 0.012 46.635 0.000 0.433

 W\_FAM1 BY

 FAMT1 0.749 0.011 68.361 0.000 0.473

 W\_FAM2 BY

 FAMT2 0.795 0.010 78.962 0.000 0.414

 W\_FAM3 BY

 FAMT3 0.822 0.007 116.961 0.000 0.446

 W\_PER1 BY

 PERT1 0.779 0.010 79.387 0.000 0.404

 W\_PER2 BY

 PERT2 0.788 0.010 76.873 0.000 0.362

 W\_PER3 BY

 PERT3 0.798 0.009 88.058 0.000 0.386

 RI\_EMO BY

 F\_EMO1 0.656 0.022 29.408 0.000 0.312

 F\_EMO2 0.609 0.023 27.048 0.000 0.296

 F\_EMO3 0.572 0.020 29.223 0.000 0.284

 RI\_REG BY

 F\_REG1 0.605 0.023 26.740 0.000 0.317

 F\_REG2 0.619 0.024 26.041 0.000 0.300

 F\_REG3 0.608 0.022 27.186 0.000 0.328

 W\_EMO1 BY

 F\_EMO1 0.701 0.021 34.056 0.000 0.323

 W\_EMO2 BY

 F\_EMO2 0.719 0.020 36.251 0.000 0.291

 W\_EMO3 BY

 F\_EMO3 0.726 0.016 45.646 0.000 0.275

 W\_REG1 BY

 F\_REG1 0.768 0.018 42.795 0.000 0.311

 W\_REG2 BY

 F\_REG2 0.745 0.020 36.669 0.000 0.294

 W\_REG3 BY

 F\_REG3 0.738 0.019 38.791 0.000 0.349

 W\_EMO2 ON

 W\_EMO1 0.343 0.053 6.467 0.000 0.320

 W\_REG1 -0.051 0.045 -1.148 0.251 0.288

 W\_FAM1 0.015 0.023 0.658 0.511 0.341

 W\_PER1 0.019 0.021 0.892 0.372 0.340

 W\_EMO3 ON

 W\_EMO2 0.374 0.050 7.490 0.000 0.333

 W\_REG2 -0.131 0.049 -2.651 0.008 0.360

 W\_FAM2 -0.007 0.020 -0.372 0.710 0.411

 W\_PER2 0.055 0.018 2.982 0.003 0.453

 W\_REG2 ON

 W\_REG1 0.241 0.052 4.619 0.000 0.444

 W\_EMO1 -0.212 0.048 -4.414 0.000 0.424

 W\_FAM1 0.025 0.024 1.028 0.304 0.316

 W\_PER1 -0.038 0.022 -1.712 0.087 0.451

 W\_REG3 ON

 W\_REG2 0.317 0.070 4.543 0.000 0.410

 W\_EMO2 -0.174 0.059 -2.963 0.003 0.403

 W\_FAM2 0.016 0.021 0.756 0.450 0.411

 W\_PER2 -0.048 0.020 -2.458 0.014 0.454

 W\_FAM2 ON

 W\_FAM1 0.077 0.024 3.247 0.001 0.574

 W\_EMO1 -0.008 0.033 -0.248 0.804 0.362

 W\_REG1 0.104 0.034 3.039 0.002 0.399

 W\_PER1 0.007 0.019 0.368 0.713 0.453

 W\_FAM3 ON

 W\_FAM2 0.216 0.017 12.410 0.000 0.580

 W\_EMO2 0.005 0.041 0.125 0.900 0.532

 W\_REG2 0.095 0.044 2.153 0.031 0.538

 W\_PER2 0.050 0.018 2.767 0.006 0.501

 W\_PER2 ON

 W\_PER1 0.191 0.023 8.156 0.000 0.601

 W\_EMO1 -0.067 0.036 -1.881 0.060 0.443

 W\_REG1 0.061 0.034 1.796 0.072 0.457

 W\_FAM1 -0.006 0.016 -0.367 0.714 0.422

 W\_PER3 ON

 W\_PER2 0.252 0.023 11.179 0.000 0.537

 W\_EMO2 -0.039 0.044 -0.882 0.378 0.435

 W\_REG2 0.012 0.047 0.248 0.804 0.504

 W\_FAM2 0.033 0.015 2.229 0.026 0.486

 F\_EMO1 ON

 ATTAIN -0.066 0.012 -5.450 0.000 0.060

 GENDER 0.233 0.010 23.274 0.000 0.035

 ETHNICBI -0.083 0.015 -5.592 0.000 0.078

 SEN 0.073 0.011 6.582 0.000 0.058

 FSMEVER 0.085 0.013 6.616 0.000 0.041

 F\_EMO2 ON

 GENDER 0.297 0.011 25.877 0.000 0.086

 ETHNICBI -0.130 0.017 -7.798 0.000 0.101

 SEN 0.089 0.012 7.397 0.000 0.113

 FSMEVER 0.089 0.013 6.715 0.000 0.112

 F\_EMO3 ON

 GENDER 0.353 0.012 30.630 0.000 0.120

 ETHNICBI -0.143 0.017 -8.333 0.000 0.123

 SEN 0.054 0.012 4.396 0.000 0.196

 FSMEVER 0.081 0.012 6.754 0.000 0.156

 F\_REG1 ON

 ATTAIN 0.055 0.010 5.336 0.000 0.069

 GENDER -0.037 0.012 -3.001 0.003 0.054

 ETHNICBI 0.090 0.017 5.256 0.000 0.061

 SEN -0.110 0.011 -9.903 0.000 0.062

 FSMEVER -0.107 0.011 -10.068 0.000 0.064

 F\_REG2 ON

 GENDER -0.130 0.012 -10.986 0.000 0.135

 ETHNICBI 0.140 0.017 8.334 0.000 0.158

 SEN -0.105 0.012 -9.055 0.000 0.176

 FSMEVER -0.141 0.012 -11.414 0.000 0.168

 F\_REG3 ON

 GENDER -0.212 0.013 -16.350 0.000 0.172

 ETHNICBI 0.160 0.018 9.115 0.000 0.191

 SEN -0.078 0.012 -6.655 0.000 0.316

 FSMEVER -0.135 0.013 -10.777 0.000 0.262

 FAMT1 ON

 ATTAIN 0.093 0.012 8.030 0.000 0.028

 GENDER 0.057 0.010 5.809 0.000 0.072

 ETHNICBI -0.007 0.014 -0.553 0.580 0.038

 SEN -0.068 0.010 -7.126 0.000 0.059

 FSMEVER -0.061 0.010 -6.371 0.000 0.034

 FAMT2 ON

 GENDER 0.034 0.012 2.940 0.003 0.093

 ETHNICBI 0.064 0.015 4.179 0.000 0.127

 SEN -0.098 0.010 -9.717 0.000 0.195

 FSMEVER -0.088 0.010 -8.928 0.000 0.152

 FAMT3 ON

 GENDER 0.001 0.012 0.106 0.915 0.123

 ETHNICBI 0.077 0.017 4.598 0.000 0.197

 SEN -0.074 0.011 -6.655 0.000 0.329

 FSMEVER -0.113 0.011 -10.665 0.000 0.203

 PERT1 ON

 ATTAIN 0.059 0.012 4.958 0.000 0.042

 GENDER 0.193 0.010 19.340 0.000 0.044

 ETHNICBI 0.003 0.012 0.219 0.826 0.066

 SEN -0.080 0.010 -7.855 0.000 0.053

 FSMEVER -0.041 0.010 -4.207 0.000 0.040

 PERT2 ON

 GENDER 0.176 0.010 17.039 0.000 0.112

 ETHNICBI 0.084 0.012 6.846 0.000 0.160

 SEN -0.113 0.010 -10.932 0.000 0.208

 FSMEVER -0.063 0.010 -6.385 0.000 0.155

 PERT3 ON

 GENDER 0.147 0.011 13.394 0.000 0.142

 ETHNICBI 0.121 0.015 7.846 0.000 0.258

 SEN -0.102 0.011 -9.597 0.000 0.374

 FSMEVER -0.076 0.010 -7.320 0.000 0.257

 W\_EMO1 WITH

 W\_REG1 -0.649 0.024 -27.302 0.000 0.320

 W\_FAM1 -0.113 0.028 -4.090 0.000 0.373

 W\_PER1 -0.203 0.025 -8.003 0.000 0.379

 RI\_EMO 0.000 0.000 0.000 1.000 0.000

 RI\_REG 0.000 0.000 0.000 1.000 0.000

 RI\_FAM 0.000 0.000 0.000 1.000 0.000

 RI\_PER 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 W\_REG1 WITH

 W\_FAM1 0.240 0.024 9.942 0.000 0.407

 W\_PER1 0.256 0.022 11.606 0.000 0.360

 RI\_EMO 0.000 0.000 0.000 1.000 0.000

 RI\_REG 0.000 0.000 0.000 1.000 0.000

 RI\_FAM 0.000 0.000 0.000 1.000 0.000

 RI\_PER 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 W\_FAM1 WITH

 W\_PER1 0.265 0.017 15.225 0.000 0.372

 RI\_EMO 0.000 0.000 0.000 1.000 0.000

 RI\_REG 0.000 0.000 0.000 1.000 0.000

 RI\_FAM 0.000 0.000 0.000 1.000 0.000

 RI\_PER 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 W\_EMO2 WITH

 W\_REG2 -0.708 0.022 -31.505 0.000 0.277

 W\_FAM2 -0.142 0.022 -6.426 0.000 0.275

 W\_PER2 -0.174 0.022 -7.887 0.000 0.214

 W\_REG2 WITH

 W\_FAM2 0.263 0.020 12.964 0.000 0.441

 W\_PER2 0.249 0.020 12.510 0.000 0.385

 W\_FAM2 WITH

 W\_PER2 0.308 0.017 17.861 0.000 0.248

 W\_EMO3 WITH

 W\_REG3 -0.738 0.021 -35.057 0.000 0.484

 W\_FAM3 -0.163 0.016 -10.050 0.000 0.458

 W\_PER3 -0.133 0.020 -6.672 0.000 0.448

 W\_REG3 WITH

 W\_FAM3 0.289 0.017 16.958 0.000 0.403

 W\_PER3 0.238 0.018 13.218 0.000 0.445

 W\_FAM3 WITH

 W\_PER3 0.332 0.010 32.118 0.000 0.384

 RI\_EMO WITH

 W\_PER1 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 RI\_REG WITH

 W\_PER1 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 RI\_EMO -0.732 0.028 -26.399 0.000 0.355

 RI\_FAM WITH

 W\_PER1 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 RI\_EMO -0.271 0.035 -7.820 0.000 0.300

 RI\_REG 0.402 0.035 11.642 0.000 0.356

 RI\_PER WITH

 W\_PER1 0.000 0.000 0.000 1.000 0.000

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 RI\_EMO -0.413 0.034 -12.033 0.000 0.412

 RI\_REG 0.439 0.037 11.938 0.000 0.419

 RI\_FAM 0.560 0.022 25.675 0.000 0.432

 W\_PER1 WITH

 GENDER 0.000 0.000 0.000 1.000 0.000

 ETHNICBI 0.000 0.000 0.000 1.000 0.000

 SEN 0.000 0.000 0.000 1.000 0.000

 FSMEVER 0.000 0.000 0.000 1.000 0.000

 ATTAIN 0.000 0.000 0.000 1.000 0.000

 EMO1T1 WITH

 EMO1T2 0.489 0.011 43.012 0.000 0.170

 EMO1T3 0.428 0.013 32.090 0.000 0.317

 EMO1T2 WITH

 EMO1T3 0.514 0.013 41.059 0.000 0.296

 EMO2T1 WITH

 EMO2T2 0.399 0.017 23.320 0.000 0.209

 EMO2T3 0.347 0.019 17.823 0.000 0.250

 EMO2T2 WITH

 EMO2T3 0.469 0.019 25.175 0.000 0.342

 EMO3T1 WITH

 EMO3T2 0.176 0.025 6.957 0.000 0.208

 EMO3T3 0.083 0.026 3.205 0.001 0.365

 EMO3T2 WITH

 EMO3T3 0.208 0.026 8.028 0.000 0.376

 EMO4T1 WITH

 EMO4T2 0.364 0.014 26.494 0.000 0.193

 EMO4T3 0.292 0.015 19.476 0.000 0.292

 EMO4T2 WITH

 EMO4T3 0.434 0.015 29.030 0.000 0.370

 EMO5T1 WITH

 EMO5T2 0.449 0.014 32.080 0.000 0.174

 EMO5T3 0.381 0.016 24.352 0.000 0.239

 EMO5T2 WITH

 EMO5T3 0.474 0.015 31.218 0.000 0.300

 REG1T1 WITH

 REG1T2 0.204 0.017 12.292 0.000 0.283

 REG1T3 0.190 0.018 10.344 0.000 0.299

 REG1T2 WITH

 REG1T3 0.258 0.017 15.074 0.000 0.395

 REG3T1 WITH

 REG3T2 0.100 0.015 6.747 0.000 0.351

 REG3T3 0.092 0.017 5.281 0.000 0.414

 REG3T2 WITH

 REG3T3 0.141 0.016 8.833 0.000 0.435

 REG4T1 WITH

 REG4T2 0.314 0.012 26.189 0.000 0.225

 REG4T3 0.258 0.012 21.066 0.000 0.348

 REG4T2 WITH

 REG4T3 0.367 0.011 33.179 0.000 0.423

 REG6T1 WITH

 REG6T2 0.124 0.010 12.536 0.000 0.279

 REG6T3 0.086 0.012 7.118 0.000 0.430

 REG6T2 WITH

 REG6T3 0.166 0.012 14.096 0.000 0.370

 SEN WITH

 ETHNICBI -0.007 0.017 -0.405 0.685 0.002

 FSMEVER WITH

 ETHNICBI 0.164 0.029 5.771 0.000 0.058

 SEN 0.132 0.011 11.952 0.000 0.002

 GENDER WITH

 ETHNICBI 0.011 0.052 0.206 0.837 0.022

 SEN -0.137 0.013 -10.308 0.000 0.004

 FSMEVER -0.005 0.018 -0.255 0.799 0.001

 ATTAIN WITH

 ETHNICBI 0.209 0.029 7.191 0.000 0.087

 SEN -0.446 0.016 -28.532 0.000 0.068

 FSMEVER -0.222 0.020 -10.960 0.000 0.006

 GENDER 0.107 0.030 3.610 0.000 0.021

 Means

 ETHNICBI 3.241 0.120 27.002 0.000 0.250

 SEN 0.405 0.011 36.109 0.000 0.024

 FSMEVER 0.766 0.030 25.870 0.000 0.000

 GENDER 3.062 0.048 63.951 0.000 0.000

 ATTAIN 15.640 0.251 62.369 0.000 0.000

 Intercepts

 FAMT1 4.935 0.177 27.890 0.000 0.039

 FAMT2 5.692 0.073 78.114 0.000 0.242

 FAMT3 5.313 0.076 70.291 0.000 0.359

 PERT1 3.149 0.185 17.029 0.000 0.041

 PERT2 3.774 0.062 61.089 0.000 0.166

 PERT3 3.661 0.067 54.660 0.000 0.317

 F\_EMO1 0.000 0.000 0.000 1.000 0.000

 F\_EMO2 -1.034 0.175 -5.903 0.000 0.074

 F\_EMO3 -1.027 0.160 -6.407 0.000 0.089

 F\_REG1 0.000 0.000 0.000 1.000 0.000

 F\_REG2 0.970 0.169 5.733 0.000 0.096

 F\_REG3 1.075 0.170 6.336 0.000 0.107

 Thresholds

 EMO1T1$1 -0.413 0.097 -4.264 0.000 0.048

 EMO1T1$2 0.679 0.097 7.037 0.000 0.049

 EMO2T1$1 -0.830 0.138 -6.034 0.000 0.049

 EMO2T1$2 0.229 0.136 1.686 0.092 0.050

 EMO3T1$1 -0.230 0.147 -1.565 0.118 0.048

 EMO3T1$2 0.860 0.146 5.884 0.000 0.049

 EMO4T1$1 -0.908 0.113 -8.066 0.000 0.050

 EMO4T1$2 0.251 0.112 2.247 0.025 0.052

 EMO5T1$1 -0.236 0.113 -2.088 0.037 0.048

 EMO5T1$2 0.826 0.112 7.388 0.000 0.050

 REG1T1$1 -0.648 0.123 -5.255 0.000 0.048

 REG1T1$2 -0.346 0.123 -2.819 0.005 0.048

 REG1T1$3 0.009 0.122 0.072 0.942 0.048

 REG1T1$4 0.461 0.123 3.759 0.000 0.048

 REG1T1$5 0.787 0.122 6.469 0.000 0.048

 REG1T1$6 1.314 0.120 10.944 0.000 0.050

 REG3T1$1 -0.484 0.123 -3.949 0.000 0.047

 REG3T1$2 0.010 0.121 0.080 0.936 0.048

 REG3T1$3 0.383 0.121 3.161 0.002 0.048

 REG3T1$4 0.788 0.121 6.491 0.000 0.048

 REG3T1$5 1.072 0.120 8.897 0.000 0.049

 REG3T1$6 1.540 0.120 12.877 0.000 0.051

 REG4T1$1 -0.765 0.090 -8.494 0.000 0.045

 REG4T1$2 -0.355 0.090 -3.949 0.000 0.044

 REG4T1$3 -0.027 0.089 -0.308 0.758 0.045

 REG4T1$4 0.348 0.090 3.870 0.000 0.044

 REG4T1$5 0.599 0.089 6.767 0.000 0.045

 REG4T1$6 1.013 0.086 11.756 0.000 0.047

 REG6T1$1 -0.929 0.075 -12.309 0.000 0.045

 REG6T1$2 -0.532 0.074 -7.168 0.000 0.048

 REG6T1$3 -0.192 0.074 -2.598 0.009 0.049

 REG6T1$4 0.335 0.074 4.517 0.000 0.051

 REG6T1$5 0.675 0.074 9.069 0.000 0.052

 REG6T1$6 1.121 0.075 15.037 0.000 0.051

 EMO1T2$1 -0.405 0.095 -4.270 0.000 0.049

 EMO1T2$2 0.665 0.095 7.016 0.000 0.048

 EMO2T2$1 -0.795 0.131 -6.060 0.000 0.050

 EMO2T2$2 0.220 0.130 1.684 0.092 0.049

 EMO3T2$1 -0.219 0.140 -1.567 0.117 0.049

 EMO3T2$2 0.820 0.140 5.854 0.000 0.048

 EMO4T2$1 -0.882 0.109 -8.105 0.000 0.051

 EMO4T2$2 0.244 0.109 2.244 0.025 0.051

 EMO5T2$1 -0.229 0.110 -2.090 0.037 0.048

 EMO5T2$2 0.802 0.109 7.357 0.000 0.049

 REG1T2$1 -0.657 0.125 -5.266 0.000 0.046

 REG1T2$2 -0.350 0.124 -2.822 0.005 0.047

 REG1T2$3 0.009 0.124 0.072 0.942 0.047

 REG1T2$4 0.467 0.124 3.753 0.000 0.048

 REG1T2$5 0.798 0.124 6.450 0.000 0.050

 REG1T2$6 1.331 0.122 10.901 0.000 0.053

 REG3T2$1 -0.491 0.124 -3.954 0.000 0.047

 REG3T2$2 0.010 0.123 0.080 0.936 0.048

 REG3T2$3 0.388 0.123 3.158 0.002 0.049

 REG3T2$4 0.799 0.123 6.476 0.000 0.049

 REG3T2$5 1.087 0.123 8.868 0.000 0.051

 REG3T2$6 1.562 0.122 12.827 0.000 0.055

 REG4T2$1 -0.771 0.091 -8.513 0.000 0.044

 REG4T2$2 -0.357 0.090 -3.952 0.000 0.044

 REG4T2$3 -0.027 0.089 -0.308 0.758 0.045

 REG4T2$4 0.350 0.090 3.867 0.000 0.044

 REG4T2$5 0.603 0.089 6.757 0.000 0.046

 REG4T2$6 1.020 0.087 11.730 0.000 0.049

 REG6T2$1 -0.934 0.076 -12.317 0.000 0.044

 REG6T2$2 -0.535 0.075 -7.172 0.000 0.048

 REG6T2$3 -0.193 0.074 -2.598 0.009 0.049

 REG6T2$4 0.336 0.075 4.515 0.000 0.051

 REG6T2$5 0.678 0.075 9.063 0.000 0.053

 REG6T2$6 1.127 0.075 15.020 0.000 0.052

 EMO1T3$1 -0.397 0.093 -4.268 0.000 0.049

 EMO1T3$2 0.652 0.093 7.024 0.000 0.049

 EMO2T3$1 -0.766 0.127 -6.038 0.000 0.051

 EMO2T3$2 0.211 0.125 1.686 0.092 0.049

 EMO3T3$1 -0.210 0.134 -1.566 0.117 0.049

 EMO3T3$2 0.785 0.134 5.864 0.000 0.048

 EMO4T3$1 -0.859 0.106 -8.087 0.000 0.052

 EMO4T3$2 0.237 0.106 2.245 0.025 0.051

 EMO5T3$1 -0.223 0.107 -2.089 0.037 0.048

 EMO5T3$2 0.781 0.106 7.371 0.000 0.049

 REG1T3$1 -0.651 0.124 -5.264 0.000 0.048

 REG1T3$2 -0.347 0.123 -2.822 0.005 0.048

 REG1T3$3 0.009 0.122 0.072 0.942 0.048

 REG1T3$4 0.462 0.123 3.752 0.000 0.048

 REG1T3$5 0.789 0.122 6.447 0.000 0.049

 REG1T3$6 1.318 0.121 10.883 0.000 0.052

 REG3T3$1 -0.486 0.123 -3.956 0.000 0.047

 REG3T3$2 0.010 0.122 0.080 0.936 0.048

 REG3T3$3 0.384 0.122 3.156 0.002 0.049

 REG3T3$4 0.790 0.122 6.470 0.000 0.049

 REG3T3$5 1.076 0.121 8.854 0.000 0.050

 REG3T3$6 1.545 0.121 12.786 0.000 0.054

 REG4T3$1 -0.767 0.090 -8.510 0.000 0.045

 REG4T3$2 -0.355 0.090 -3.952 0.000 0.044

 REG4T3$3 -0.027 0.089 -0.308 0.758 0.045

 REG4T3$4 0.348 0.090 3.867 0.000 0.044

 REG4T3$5 0.600 0.089 6.756 0.000 0.045

 REG4T3$6 1.015 0.087 11.722 0.000 0.048

 REG6T3$1 -0.930 0.075 -12.326 0.000 0.045

 REG6T3$2 -0.533 0.074 -7.173 0.000 0.048

 REG6T3$3 -0.192 0.074 -2.599 0.009 0.049

 REG6T3$4 0.335 0.074 4.514 0.000 0.051

 REG6T3$5 0.676 0.075 9.059 0.000 0.052

 REG6T3$6 1.123 0.075 15.007 0.000 0.051

 Variances

 ETHNICBI 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 SEN 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 FSMEVER 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 GENDER 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 ATTAIN 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 RI\_EMO 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 RI\_REG 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 RI\_FAM 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 RI\_PER 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 W\_EMO1 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 W\_REG1 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 W\_FAM1 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 W\_PER1 1.000 0.000 \*\*\*\*\*\*\*\*\* 0.000 0.000

 Residual Variances

 FAMT1 0.000 999.000 999.000 999.000 0.000

 FAMT2 0.000 999.000 999.000 999.000 0.000

 FAMT3 0.000 999.000 999.000 999.000 0.000

 PERT1 0.000 999.000 999.000 999.000 0.000

 PERT2 0.000 999.000 999.000 999.000 0.000

 PERT3 0.000 999.000 999.000 999.000 0.000

 F\_EMO1 0.000 999.000 999.000 999.000 0.000

 F\_EMO2 0.000 999.000 999.000 999.000 0.000

 F\_EMO3 0.000 999.000 999.000 999.000 0.000

 F\_REG1 0.000 999.000 999.000 999.000 0.000

 F\_REG2 0.000 999.000 999.000 999.000 0.000

 F\_REG3 0.000 999.000 999.000 999.000 0.000

 W\_EMO2 0.860 0.028 30.459 0.000 0.333

 W\_EMO3 0.777 0.028 27.499 0.000 0.308

 W\_REG2 0.831 0.027 30.654 0.000 0.312

 W\_REG3 0.792 0.028 28.079 0.000 0.311

 W\_FAM2 0.976 0.008 124.530 0.000 0.436

 W\_FAM3 0.921 0.011 83.400 0.000 0.563

 W\_PER2 0.939 0.011 83.404 0.000 0.432

 W\_PER3 0.920 0.012 77.723 0.000 0.523

R-SQUARE

 Observed Two-Tailed Rate of

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

 EMO1T1 0.276 0.008 35.891 0.000 0.144

 EMO2T1 0.559 0.008 66.668 0.000 0.115

 EMO3T1 0.639 0.010 66.237 0.000 0.211

 EMO4T1 0.380 0.008 48.975 0.000 0.131

 EMO5T1 0.374 0.009 39.753 0.000 0.141

 REG1T1 0.578 0.009 65.820 0.000 0.276

 REG3T1 0.589 0.008 71.678 0.000 0.256

 REG4T1 0.286 0.007 42.004 0.000 0.207

 REG6T1 0.223 0.006 35.314 0.000 0.164

 EMO1T2 0.307 0.008 37.710 0.000 0.181

 EMO2T2 0.595 0.008 79.206 0.000 0.196

 EMO3T2 0.672 0.009 72.242 0.000 0.221

 EMO4T2 0.415 0.009 47.374 0.000 0.204

 EMO5T2 0.410 0.010 40.844 0.000 0.163

 REG1T2 0.566 0.009 63.140 0.000 0.204

 REG3T2 0.577 0.009 65.147 0.000 0.307

 REG4T2 0.277 0.007 38.660 0.000 0.278

 REG6T2 0.214 0.007 29.440 0.000 0.223

 EMO1T3 0.334 0.009 36.056 0.000 0.204

 EMO2T3 0.624 0.009 67.551 0.000 0.219

 EMO3T3 0.699 0.010 73.292 0.000 0.232

 EMO4T3 0.446 0.009 48.544 0.000 0.274

 EMO5T3 0.440 0.010 43.357 0.000 0.222

 REG1T3 0.575 0.009 63.072 0.000 0.291

 REG3T3 0.586 0.009 65.694 0.000 0.359

 REG4T3 0.284 0.007 38.811 0.000 0.348

 REG6T3 0.221 0.007 30.190 0.000 0.324

 FAMT1 1.000 999.000 999.000 999.000 0.000

 FAMT2 1.000 999.000 999.000 999.000 0.000

 FAMT3 1.000 999.000 999.000 999.000 0.000

 PERT1 1.000 999.000 999.000 999.000 0.000

 PERT2 1.000 999.000 999.000 999.000 0.000

 PERT3 1.000 999.000 999.000 999.000 0.000

 Latent Two-Tailed Rate of

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

 F\_EMO1 1.000 999.000 999.000 999.000 0.000

 F\_EMO2 1.000 999.000 999.000 999.000 0.000

 F\_EMO3 1.000 999.000 999.000 999.000 0.000

 F\_REG1 1.000 999.000 999.000 999.000 0.000

 F\_REG2 1.000 999.000 999.000 999.000 0.000

 F\_REG3 1.000 999.000 999.000 999.000 0.000

 W\_EMO2 0.140 0.028 4.968 0.000 0.333

 W\_EMO3 0.223 0.028 7.872 0.000 0.308

 W\_REG2 0.169 0.027 6.222 0.000 0.312

 W\_REG3 0.208 0.028 7.360 0.000 0.311

 W\_FAM2 0.024 0.008 3.016 0.003 0.436

 W\_FAM3 0.079 0.011 7.186 0.000 0.563

 W\_PER2 0.061 0.011 5.446 0.000 0.432

 W\_PER3 0.080 0.012 6.719 0.000 0.523

QUALITY OF NUMERICAL RESULTS

 Average Condition Number for the Information Matrix 0.256E-08

 (ratio of smallest to largest eigenvalue)

**Appendix H) Measurement model results**

Given inclusion of emotional distress and emotion regulation as latent factors in the structural model, we first examined a measurement model allowing these latent factors to freely correlate to review the overarching factor structure underpinning the main analysis model (Brown, 2015). This model showed acceptable fit: c2 (309) = 16,169.59 (SD = 287.62); RMSEA = .06 (SD = .00); CFI = .88 (SD = .00), TLI = .87 (SD = .01); SRMR = .06 (SD = .00). Table S12 shows standardised beta coefficient associations between factors in this model. Though strong correlations were observed between emotional distress factors and emotion regulation factors in this model, none exceeded the 0.80 threshold that Brown (2015) advises as indicative of multicollinearity in latent factor correlations. Thus, our measurement model was acceptable ahead of the main analysis.

|  |
| --- |
| Table S12*Measurement Model Correlations (β)* |
|  | 1 | 2 | 3 | 4 | 5 |
| 1. Emotional distress T1 | – |  |  |  |  |
| 2. Emotional distress T2 | .**78** | – |  |  |  |
| 3. Emotional distress T3 | **.65** | **.83** | – |  |  |
| 4. Emotion regulation T1 | -.70 | -.46 | -.38 | – |  |
| 5. Emotion regulation T2 | -.55 | -.74 | -.54 | **-.71** | – |
| 6. Emotion regulation T3 | -.45 | -.57 | -.76 | **.56** | **.76** |
| *Note.* T1 = Timepoint 1; T2 = Timepoint 2; T3 = Timepoint 3.All relationships significant at the .001 alpha level. Within-domain correlations across time are shown in bold type. |

**Appendix I) Covariates as predictors of original group-level constructs**

We included gender, ethnicity, special educational needs, low family income, and academic attainment as covariates in our RI-CLPM analysis.Table S13 shows standardised beta coefficients for each covariate as a predictor of group-level constructs at each timepoint (that is, original measurements from which random intercepts and within-person variables are specified). Relative to boys, girls reported significantly greater emotional distress, perceived connection to peers, and (at a very small level) family connection, but also reported lower levels of perceived emotion regulation. Participants identified as being from UK minority ethnic groups reported significantly lower distress and greater perceived emotion regulation, and slightly greater perceived social connection (at Timepoints 2 and 3), relative to participants identified as White. Individuals identified as having SEN and those who had ever been identified as having low family income reported greater distress and lower perceived emotion regulation and social connection than those without SEN or low family income, respectively. Academic attainment (modelled only at Timepoint 1) showed significant relationships with all constructs, with those with higher attainment reporting slightly lower symptoms and slightly greater emotion regulation and social connection.

|  |
| --- |
| Table S13*Effects of Covariates on Group-Level Constructs (β)* |
|  | Emotional distress | Emotion regulation | Family adult connection | Peer connection |
|  | T1 | T2 | T3 | T1 | T2 | T3 | T1 | T2 | T3 | T1 | T2 | T3 |
| Gender *(1 = boy, 2 = girl)* | .23\*\*\* | .30\*\*\* | .35\*\*\* | -.04\*\* | -.13\*\*\* | -.21\*\*\* | .06\*\*\* | .03\*\*\* | .00 | .19\*\*\* | .18\*\*\* | .15\*\*\* |
| Ethnicity *(1 = White, 2 = UK minority ethnic group)* | -.08\*\*\* | -.13\*\*\* | -.14\*\*\* | .09\*\*\* | .14\*\*\* | .16\*\*\* | -.01 | .06\*\* | .08\*\* | .00\*\*\* | .12\*\*\* | .12\*\*\* |
| SEN status | .07\*\*\* | .09\*\*\* | .05\*\*\* | -.11\*\*\* | -.11\*\*\* | -.08\*\*\* | -.07\*\*\* | -.10\*\*\* | -.07\*\*\* | -.08\*\*\* | -.11\*\*\* | -.10\*\*\* |
| Low family income (ever) | .09\*\*\* | .09\*\*\* | .08\*\*\* | -.11\*\*\* | -.14\*\*\* | -.16\*\*\* | -.06\*\*\* | -.09\*\*\* | -.11\*\*\* | -.04\*\*\* | -.06\*\*\* | -.08\*\*\* |
| Attainment | -.07\*\*\* | – | – | .06\*\*\* | – | – | .09\*\*\* | – | – | .06\*\*\* | – | – |
| *Note.* T1 = Timepoint 1; T2 = Timepoint 2; T3 = Timepoint 3.\*\* *p* < .01; \*\*\* *p* < .001. |