



ICPSR 33921

Comprehensive Investigation of the Role of Individuals, the Immediate Social Environment, and Neighborhoods in Trajectories of Adolescent Antisocial Behavior in Chicago, Illinois, 1994-2002

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Data Documentation



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Data Documentation Notes: SPSS and Mplus Syntax

This collection is comprised of SPSS and Mplus syntax designed by the principal investigator to examine the development of adolescent antisocial behavior using data from the Project on Human Development in Chicago Neighborhoods (PHDCN) Series. In order to use the syntax files, users must first obtain the data from the following studies available from the ICPSR PHDCN Web site (<https://www.icpsr.umich.edu/PHDCN/>):

1. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): MASTER FILE, WAVE 1, 1994-1997 (ICPSR 13580)
2. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): DEVIANCE OF PEERS, WAVE 1, 1994-1997 (ICPSR 13585)
3. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): EMOTIONALITY, ACTIVITY, SOCIABILITY, AND IMPULSIVITY TEMPERAMENT SURVEY, WAVE 1, 1994-1995 (ICPSR 13586)
4. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): HOME OBSERVATION FOR MEASUREMENT OF THE ENVIRONMENT, WAVE 1, 1994-1997 (ICPSR 13594)
5. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): PROVISION OF SOCIAL RELATIONS (SUBJECT), WAVE 1, 1994-1995 (ICPSR 13598)
6. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): SELF REPORT OF OFFENDING, WAVE 1, 1994-1997 (ICPSR 13601)
7. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): SUBSTANCE USE, WAVE 1, 1994-1997 (ICPSR 13602)
8. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): SELF REPORT OF OFFENDING, WAVE 2, 1997-2000 (ICPSR 13658)
9. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO NEIGHBORHOODS (PHDCN): SUBSTANCE USE, WAVE 2, 1997-2000 (ICPSR 13659)

10. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO
NEIGHBORHOODS (PHDCN): SELF REPORT OF OFFENDING, WAVE
3, 2000-2002 (ICPSR 13742)
11. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO
NEIGHBORHOODS (PHDCN): SUBSTANCE USE, WAVE 3, 2000-2002
(ICPSR 13743)
12. PROJECT ON HUMAN DEVELOPMENT IN CHICAGO
NEIGHBORHOODS: COMMUNITY SURVEY, 1994-1995 (ICPSR 2766)

To protect respondent privacy, the Project on Human Development in Chicago Neighborhoods data are restricted from general dissemination. Users interested in obtaining these data must complete an Agreement for the Use of Confidential Data, specify the reasons for the request, and obtain IRB approval or notice of exemption for their research. Apply for access to these data through the ICPSR Restricted Data Contract Portal, which can be accessed via the study home page. Researchers are encouraged to also consult the [NACJD Restricted Data page](#) for additional information about restricted data.

The SPSS syntax and Mplus syntax supplied by the principal investigator were not adjusted by ICPSR during the preparation of the NACJD version of this collection. Users should be aware that some syntax changes may be necessary in order to use the SPSS and Mplus programs on their computer system.

The Data Documentation file provides Data Preparation and Analysis Procedures prepared by the principal investigator. The SPSS data management syntax is also available for download as an ASCII file.

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ICPSR 13594-Home Observation for Measurement of the Environment	
ICPSR 13598-Provision of Social Relationships	
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***1. Data Preparation**

(Generally Use SPSS Syntax Files But MPlus Used for Self-Reported *Delinquency IRT Rasch Scores)

***FILE CONSTRUCTION, VARIABLE SCORING, ASSESSMENT.**

***Generally, all measures were constructed using separate Cohort files for C9, C12, and C15.**

***Files were then merged to create a “covariate master file” (ICPSR 13580) which was then**

***merged with the PHDCN *Wave 1 Master File and the files for the outcome variables**

***Repeat routines across Cohort 9, Cohort 12, Cohort 15.**

***Measures not shown here are same as in original ICPSR PHDCN data files.**

***SOCIAL SUPPORT COVARIATE (USE ICPSR 13598 RAW FILES).**

***FRIENDS' SOC SUPPORT.**

***RECODE SO HIGH VALS=MORE SOC SUPPORT (Except pss15).**

compute pss1r=pss1.

if (pss1=1) pss1r=3.

if (pss1=3) pss1r=1.

freq pss1 pss1r.

compute pss2r=pss2.

if (pss2=1) pss2r=3.

if (pss2=3) pss2r=1.

freq pss2 pss2r.

compute pss3r=pss3.

if (pss3=1) pss3r=3.

if (pss3=3) pss3r=1.

freq pss3 pss3r.

compute pss5r=pss5.

if (pss5=1) pss5r=3.

if (pss5=3) pss5r=1.

freq pss5 pss5r.

compute pss6r=pss6.

if (pss6=1) pss6r=3.

if (pss6=3) pss6r=1.

freq pss6 pss6r.

compute pss9r=pss9.

if (pss9=1) pss9r=3.

if (pss9=3) pss9r=1.

freq pss9 pss9r.


```
compute pss12r=pss12.  
if (pss12=1) pss12r=3.  
if (pss12=3) pss12r=1.  
freq pss12 pss12r.
```

```
compute pss13r=pss13.  
if (pss13=1) pss13r=3.  
if (pss13=3) pss13r=1.  
freq pss13 pss13r.
```

```
corr pss15 pss1r pss2r pss3r pss5r pss6r pss9r pss12r pss13r.
```

*Measurement Analysis.

```
FACTOR
```

```
/VARIABLES pss15 pss1r pss2r pss3r pss5r pss6r pss9r pss12r pss13r  
/MISSING LISTWISE  
/ANALYSIS pss15 pss1r pss2r pss3r pss5r pss6r pss9r pss12r pss13r  
/PRINT INITIAL EXTRACTION  
/CRITERIA FACTORS(1) ITERATE(25)  
/EXTRACTION ML  
/ROTATION NOROTATE.
```

```
RELIABILITY
```

```
/VARIABLES=pss15 pss1r pss2r pss3r pss5r pss6r pss9r pss12r pss13r  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA  
/SUMMARY=TOTAL.
```

*Compute Additive Scale (Total Social Support Friends).

```
compute frpssA=sum(pss15, pss1r, pss2r, pss3r, pss5r, pss6r, pss9r, pss12r, pss13r).  
descriptives frpssA.
```

*Fam Social Support.

```
FREQUENCIES pss4 pss7 pss8 pss10 pss11 pss14.
```

*RECODE SO HIGH VALS=MORE SOC SUPPORT (Except pss7).

```
compute pss4r=pss4.  
if (pss4=1) pss4r=3.  
if (pss4=3) pss4r=1.  
freq pss4 pss4r.
```

```
compute pss8r=pss8.  
if (pss8=1) pss8r=3.
```

```
if (pss8=3) pss8r=1.  
freq pss8 pss8r.
```

```
compute pss10r=pss10.  
if (pss10=1) pss10r=3.  
if (pss10=3) pss10r=1.  
freq pss10 pss10r.
```

```
compute pss11r=pss11.  
if (pss11=1) pss11r=3.  
if (pss11=3) pss11r=1.  
freq pss11 pss11r.
```

```
compute pss14r=pss14.  
if (pss14=1) pss14r=3.  
if (pss14=3) pss14r=1.  
freq pss14 pss14r.
```

```
corr pss7 pss4r pss8r pss10r pss11r pss14r.
```

*Measurement Analysis.

FACTOR

```
/VARIABLES pss7 pss4r pss8r pss10r pss11r pss14r  
/MISSING LISTWISE  
/ANALYSIS pss7 pss4r pss8r pss10r pss11r pss14r  
/PRINT INITIAL EXTRACTION  
/CRITERIA FACTORS(1) ITERATE(25)  
/EXTRACTION ML  
/ROTATION NOROTATE.
```

RELIABILITY

```
/VARIABLES= pss7 pss4r pss8r pss10r pss11r pss14r  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA  
/SUMMARY=TOTAL.
```

*Scores for Fam Social Support.

```
compute fampssA=sum(pss7, pss4r, pss8r, pss10r, pss11r, pss14r).  
descriptives fampssA.
```

*OTHER SOC SUPPORT.

```
Freq pss16 pss17 pss18 pss19.
```

*RECODE SO HIGHER SCORES=>SOC SUPPORT.

```
compute pss16r=pss16.  
if (pss16=1) pss16r=3.  
if (pss16=3) pss16r=1.  
freq pss16 pss16r.
```

```
compute pss17r=pss17r.  
if (pss17=1) pss17r=3.  
if (pss17=3) pss17r=1.  
freq pss17 pss17r.
```

```
compute pss18r=pss18.  
if (pss18=1) pss18r=3.  
if (pss18=3) pss18r=1.  
freq pss18 pss18r.
```

```
compute pss19r=pss19.  
if (pss19=1) pss19r=3.  
if (pss19=3) pss19r=1.  
freq pss19 pss19r.
```

```
corr pss16r pss17r pss18r pss19r.
```

*Measurement Analysis.

FACTOR

```
/VARIABLES pss16r pss17r pss18r pss19r  
/MISSING LISTWISE  
/ANALYSIS pss16r pss17r pss18r pss19r  
/PRINT INITIAL EXTRACTION  
/CRITERIA FACTORS(1) ITERATE(25)  
/EXTRACTION ML  
/ROTATION NOROTATE.
```

RELIABILITY

```
/VARIABLES= pss16r pss17r pss18r pss19r  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA /SUMMARY=TOTAL.
```

```
compute othpss=sum(pss16r, pss17r, pss18r, pss19r).  
descriptives othpss.
```

*Compute Total Soc Support (Friends, Fam, Other).

```
compute totpss=sum(frpssA, fampssA, othpss).  
descriptives totpss.
```

*ANTISOCIAL PEERS COVARIATE (USE ICPSR 13585).

descriptives dp15 dp16 dp17 dp18 dp19 dp20 dp21 dp22 dp23 dp24 dp25 dp26 dp27 dp28 dp29.

Corr dp15 dp16 dp17 dp18 dp19 dp20 dp21 dp22 dp23 dp24 dp25 dp26 dp27 dp28 dp29.

*Measurement Analysis.

FACTOR

/VARIABLES dp15 dp16 dp17 dp18 dp19 dp20 dp21 dp22 dp23 dp24 dp25 dp26 dp27 dp28 dp29 /MISSING LISTWISE

/ANALYSIS dp15 dp16 dp17 dp18 dp19 dp20 dp21 dp22 dp23 dp24 dp25 dp26 dp27 dp28 dp29

/PRINT INITIAL EXTRACTION

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION ML

/ROTATION NOROTATE.

RELIABILITY

/VARIABLES= dp15 dp16 dp17 dp18 dp19 dp20 dp21 dp22 dp23 dp24 dp25 dp26 dp27 dp28 dp29

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/SUMMARY=TOTAL.

Compute aspeerB=sum (dp15, dp16, dp17, dp18, dp19, dp20, dp21, dp22, dp23, dp24, dp25, dp26, dp27, dp28, dp29)/15.

DESCRIPTIVES aspeerB.

* *HOME SCALES-PARENTING COVARIATES (USE ICPSR 13594).

*"PARENTAL LACK HOSTILITY".

descriptives hd5_1 hd5_2 hd5_3 hd5_4.

corr hd5_1 hd5_2 hd5_3 hd5_4.

*Measurement Analysis.

FACTOR

/VARIABLES hd5_1 hd5_2 hd5_3 hd5_4

/MISSING LISTWISE

/ANALYSIS hd5_1 hd5_2 hd5_3 hd5_4

/PRINT INITIAL EXTRACTION

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION ML

/ROTATION NOROTATE.

RELIABILITY

/VARIABLES= hd5_1 hd5_2 hd5_3 hd5_4

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/SUMMARY=TOTAL.

compute parlhost=sum(hd5_1, hd5_2, hd5_3, hd5_4).

Descriptives parlhost.

*"PARENTAL WARMTH".

descriptives hd1_1 hd1_2 hd1_3 hd1_4 hd1_5 hd1_6 hd1_7 hd1_8 hd1_9.

corr hd1_1 hd1_2 hd1_3 hd1_4 hd1_5 hd1_6 hd1_7 hd1_8 hd1_9.

*Measurement analysis.

FACTOR

/VARIABLES hd1_1 hd1_2 hd1_3 hd1_4 hd1_5 hd1_6 hd1_7 hd1_8 hd1_9

/MISSING LISTWISE

/ANALYSIS hd1_1 hd1_2 hd1_3 hd1_4 hd1_5 hd1_6 hd1_7 hd1_8 hd1_9

/PRINT INITIAL EXTRACTION

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION ML

/ROTATION NOROTATE.

RELIABILITY

/VARIABLES= hd1_1 hd1_2 hd1_3 hd1_4 hd1_5 hd1_6 hd1_7 hd1_8 hd1_9

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/SUMMARY=TOTAL.

```
compute parwarm=sum(hd1_1, hd1_2, hd1_3, hd1_4, hd1_5, hd1_6, hd1_7, hd1_8, hd1_9).  
descriptives parwarm.
```

*Parental Monitoring Supervision.

```
descriptives hd4_1 hd4_3 hd4_5 hd4_7 hd4_8 hd4_9 hd4_10 hd4_11 hd4_12 hd4_14 hd4_18  
hd4_19 hd4_20.  
corr hd4_1 hd4_3 hd4_5 hd4_7 hd4_8 hd4_9 hd4_10 hd4_11 hd4_12 hd4_14 hd4_18 hd4_19  
hd4_20.
```

*Measurement Analysis.

```
FACTOR  
/VARIABLES hd4_1 hd4_3 hd4_5 hd4_7 hd4_8 hd4_9 hd4_10 hd4_11 hd4_12 hd4_14 hd4_18  
hd4_19 hd4_20  
/MISSING LISTWISE  
/ANALYSIS hd4_1 hd4_3 hd4_5 hd4_7 hd4_8 hd4_9 hd4_10 hd4_11 hd4_12 hd4_14 hd4_18  
hd4_19 hd4_20  
/PRINT INITIAL EXTRACTION  
/CRITERIA MINEIGEN(1) ITERATE(25)  
/EXTRACTION ML  
/ROTATION NOROTATE.
```

RELIABILITY

```
/VARIABLES= hd4_1 hd4_3 hd4_5 hd4_7 hd4_8 hd4_9 hd4_10 hd4_11 hd4_12 hd4_14 hd4_18  
hd4_19 hd4_20  
/SCALE('ALL VARIABLES') ALL  
/MODEL=ALPHA  
/SUMMARY=TOTAL.
```

```
compute fparmsup=sum(hd4_1, hd4_3, hd4_5, hd4_7, hd4_8, hd4_9, hd4_10, hd4_11, hd4_12,  
hd4_14, hd4_18, hd4_19, hd4_20).  
descriptives fparmsup.
```

*SELF CONTROL Covariate using EASI items (Use ICPSR 13586)

Descriptives ey25 ey15 ey6 ey14 ey21 ey38 ey2 ey28 ey13 ey40 ey4 ey23 ey29 ey36 ey8 ey39.

*Reverse code items so that all follow same order on self control.

recode ey15 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey15r.

recode ey14 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey14r.

recode ey38 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey38r.

recode ey28 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey28r.

recode ey29 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey29r.

recode ey8 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey8r.

recode ey39 (1=5) (2=4) (3=3) (4=2) (5=1) (else=copy) into ey39r.

descriptives ey39r ey8r ey29r ey28r ey38r ey14r ey15r.

compute scsum=sum (ey25, ey15r, ey6, ey14r, ey21, ey38r, ey2, ey28r, ey13, ey40, ey4, ey23, ey29r, ey36, ey8r, ey39r).

descriptives scsum.

*Measurement Analysis.

FACTOR

/VARIABLES ey25 ey15r ey6 ey14r ey21 ey38r ey2 ey28r ey13 ey40 ey4 ey23 ey29r ey36 ey8r ey39r

/MISSING LISTWISE

/ANALYSIS ey25 ey15r ey6 ey14r ey21 ey38r ey2 ey28r ey13 ey40 ey4 ey23 ey29r ey36 ey8r ey39r

/PRINT INITIAL EXTRACTION

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION ML

/ROTATION NOROTATE

/SAVE REG(ALL).

RELIABILITY

/VARIABLES=ey25 ey15r ey6 ey14r ey21 ey38r ey2 ey28r ey13 ey40 ey4 ey23 ey29r ey36 ey8r ey39r

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA.

*Create standardized version of self control score.

DESCRIPTIVES VARIABLES=scsum /SAVE /STATISTICS=MEAN STDDEV MIN MAX.

*CREATE OUTCOME VARIABLES.

*Substance Use Variables (use ICPSR 13602).

*Recode original substance use variables.

*Create Alternate Variables.

*Alcohol.

FREQUENCIES su3a0 su3d0.

compute evalcw1=su3a0.

compute lyalcw1=su3d0.

*Pot.

FREQUENCIES

su7a2 su7d0.

compute evpotw1=su7a2.

compute lypotw1=su7d0.

*Cocaine.

FREQUENCIES

su8a2 su8d0.

compute evcocw1=su8a2.

compute lycocw1=su8d0.

*Other Drugs.

REQUENCIES su11a0 su11d0.

compute evodrw1=su11a0.

compute lyodrw1=su11d0.

*Measurement Analysis.

FACTOR

/VARIABLES lycocw1b lypotw1b lyalcw1b lyodrw1b

/MISSING LISTWISE

/ANALYSIS lycocw1b lypotw1b lyalcw1b lyodrw1b

/PRINT INITIAL EXTRACTION

/CRITERIA FACTORS(1) ITERATE(25)

/EXTRACTION ML

/ROTATION NOROTATE.

RELIABILITY

/VARIABLES= lycocw1b lypotw1b lyalcw1b lyodrw1b

/SCALE('ALL VARIABLES') ALL

/MODEL=ALPHA

/SUMMARY=TOTAL.

*Summary ALC/Drug Count Variables for Wave 1 (would repeat for W2, W3).
compute lyaodw1b=sum(lycocw1b, lypotw1b, lyalcw1b, lyodrw1b).
descriptives lyaodw1b.

*Self-Reported Offending Measures. Partly developed in SPSS and then Item Response Theory

*Rasch Scores in MPlus.

*USE ICPSR 13601.

*Violence.

*Carried hidden weapon.

compute anhwpw1=sr3a0.

compute lyhwpw1=sr3b0.

*attack with weapon.

compute anawpw1=sr22a0.

compute lyawpw1=sr22b0.

*gang fight.

compute angftw1=sr25a0.

compute lygftw1=sr25b0.

*Snatched purse.

compute anspurw1=sr11a0.

compute lyspurw1=sr11b0.

*hit someone not live with.

compute anhothw1=sr21a0.

compute lyhothw1=sr21b0.

*used force to rob.

compute anrobhw1=sr23a0.

compute lyrobhw1=sr23b0.

*thrown objects at people.

compute anthrow1=sr24a0.

compute lythrow1=sr24b0.

*PROPERTY ITEMS.

*Damaged Property.

compute andprpw1=sr5a0.

compute lydprpw1=sr5b0.

*Broke into building.

compute anbldw1=sr7a0.

compute lybldw1=sr7b0.

*Ever stole from a store.

compute ansstrw1=sr8a0.

compute lysstrw1=sr8b0.

*stolen from car.

compute anscarw1=sr12a0.

compute lyscarw1=sr12b0.

*bought sold stolen goods.

compute ansgdsw1=sr13a0.

compute lysgdsw1=sr13b0.

*Public Order/Status Offenses.

*run away from home overnight.

compute anrawyw1=sr1a0.

compute lyrawyw1=sr1b0.

*absent from school w/out excuse.

compute anaschw1=sr2a1.

compute lyaschw1=sr2b2.

*disorderly in public place.

compute andisw1=sr4a0.

compute lydisw1=sr4b0.

*Paid for sex.

compute anpsexw1=sr31a0.

compute lypsexw1=sr31b0.

*Ticket for Driving Off.

compute antickw1=sr31a0.

compute lytickw1=sr31b0.

*Driving with suspended license.

compute andsusw1=sr32a0.

compute lydsusw1=sr32b0.

!MPlus Input File for Development of Violence IRT Rasch Scores, After converting SPSS File To !.dat File Through “N2MPlus”

DATA: FILE IS Full SRO Condensed File 9-30-10.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE subid basisid wave cohort source srofile month day wave2 cohort2 sroclnd2
wave3 cohort3 sroclnd3 anhw1p1 lyhw1p1 anaw1p1 lyaw1p1 angftw1 lygftw1 anfirw1
lyfirw1 anspurw1 lyspurw1 anhfamw1 lyhfamw1 anhothw1 lyhothw1 anrobhw1

lyrobhw1 anthrow1 lythrow1 andprpw1 lydprpw1 anbbldw1

lybbldw1 ansstrw1 lysstrw1 anshouw1 lyshouw1 anscarw1

lyscarw1 ansgdsw1 lysgdsw1 anspotw1 lyspotw1 anscocw1 lyscocw1

ansherw1 lysherw1 anhw1p2 lyhw1p2 anaw1p2 lyaw1p2

angftw2 lygftw2 anfirw2 lyfirw2 anspurw2 lyspurw2 anhfamw2

lyhfamw2 anhothw2 lyhothw2 anrobhw2 lyrobhw2 anthrow2

lythrow2 andprpw2 lydprpw2 anbbldw2 lybbldw2 ansstrw2

lysstrw2 anshouw2 lyshouw2 anscarw2 lyscarw2 ansgdsw2 lysgdsw2

anspotw2 lyspotw2 anscocw2 lyscocw2 ansherw2 lysherw2

anhw1p3 lyhw1p3 anaw1p3 lyaw1p3 angftw3 lygftw3 anfirw3

lyfirw3 anspurw3 lyspurw3 anhfamw3 lyhfamw3 anhothw3

lyhothw3 anrobhw3 lyrobhw3 anthrow3 lythrow3 andprpw3

lydprpw3 anbbldw3 lybbldw3 ansstrw3 lysstrw3 anshouw3 lyshouw3

anscarw3 lyscarw3 ansgdsw3 lysgdsw3 anspotw3 lyspotw3

anscocw3 lyscocw3 ansherw3 lysherw3 anrawy1 lyrawy1

anaschw1 lyaschw1 andisw1 lydisw1 anpsexw1 lypsexw1

antickw1 lytickw1 andsusw1 lydsusw1 anrawy2 lyrawy2 anaschw2

lyaschw2 andisw2 lydisw2 anpsexw2 lypsexw2 antickw2

lytickw2 andsusw2 lydsusw2 anrawy3 lyrawy3 anaschw3

lyaschw3 andisw3 lydisw3 anpsexw3 lypsexw3 antickw3 lytickw3

andsusw3 lydsusw3;

USEVARIABLES ARE anhw1p1 anaw1p1 anspurw1 anhothw1 anrobhw1 anthrow1 angftw1;

CATEGORICAL ARE anhw1p1 anaw1p1 anspurw1 anhothw1 anrobhw1 anthrow1 angftw1;

IDVARIABLE is subid;

ANALYSIS: ESTIMATOR=ML;

MODEL: Violen1 by anhw1p1 anaw1p1 anspurw1 anhothw1 anrobhw1 anthrow1
angftw1*(1);

Violen1@1;

OUTPUT: TECH1 TECH8;

SAVEDATA:

File is wave1 viol rasch scores.dat;

SAVE=FSCORES;

Plot:

type=plot2;

**!MPlus Input File for Development of PROPERTY IRT Rasch Scores, After converting SPSS File
!To .dat File Through "N2MPlus"**

DATA: FILE IS Full SRO Condensed File 9-30-10.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE subid basisid wave cohort source srofile month day

wave2 cohort2 sroclnd2 wave3 cohort3 sroclnd3 anhw1p1 lyhw1p1

anaw1p1 lyaw1p1 angft1 lygft1 anfir1 lyfir1 anspur1

lyspur1 anhfam1 lyhfam1 anhoth1 lyhoth1 anrobh1

lyrobh1 anthrow1 lythrow1 andprp1 lydprp1 anbbld1

lybbld1 ansstr1 lysstr1 anshou1 lyshou1 anscar1

lyscar1 ansgdsw1 lysgdsw1 anspot1 lyspot1 anscoc1 lyscoc1

ansher1 lysher1 anhw1p2 lyhw1p2 anaw1p2 lyaw1p2

angft2 lygft2 anfir2 lyfir2 anspur2 lyspur2 anhfam2

lyhfam2 anhoth2 lyhoth2 anrobh2 lyrobh2 anthrow2

lythrow2 andprp2 lydprp2 anbbld2 lybbld2 ansstr2

lysstr2 anshou2 lyshou2 anscar2 lyscar2 ansgdsw2 lysgdsw2

anspot2 lyspot2 anscoc2 lyscoc2 ansher2 lysher2

anhw1p3 lyhw1p3 anaw1p3 lyaw1p3 angft3 lygft3 anfir3

lyfir3 anspur3 lyspur3 anhfam3 lyhfam3 anhoth3

lyhoth3 anrobh3 lyrobh3 anthrow3 lythrow3 andprp3

lydprp3 anbbld3 lybbld3 ansstr3 lysstr3 anshou3 lyshou3

anscar3 lyscar3 ansgdsw3 lysgdsw3 anspot3 lyspot3

anscoc3 lyscoc3 ansher3 lysher3 anrawy1 lyrawy1

anaschw1 lyaschw1 andisw1 lydisw1 anpsexw1 lypsexw1

antickw1 lytickw1 andsusw1 lydsusw1 anrawy2 lyrawy2 anaschw2

lyaschw2 andisw2 lydisw2 anpsexw2 lypsexw2 antickw2

lytickw2 andsusw2 lydsusw2 anrawy3 lyrawy3 anaschw3

lyaschw3 andisw3 lydisw3 anpsexw3 lypsexw3 antickw3 lytickw3

andsusw3 lydsusw3;

USEVARIABLES ARE andprp1 anbbld1 ansstr1 anscar1 ansgdsw1;

CATEGORICAL ARE andprp1 anbbld1 ansstr1 anscar1 ansgdsw1;

IDVARIABLE is subid;

ANALYSIS: ESTIMATOR=MLR;

MODEL: prop1 by andprp1 anbbld1 ansstr1 anscar1 ansgdsw1*(1);

prop1@1;

OUTPUT: TECH1 TECH8;

SAVEDATA:

File is wave1 prop rasch scores.dat;

SAVE=FSCORES;

Plot: type=plot2;

**!MPlus Input File for Development of PUBLIC ORDER STATUS IRT Rasch Scores, After
!converting SPSS File To !.dat File Through "N2MPlus"**

DATA: FILE IS Full SRO Condensed File 9-30-10.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE subid basisid wave cohort source srofile month day

wave2 cohort2 sroclnd2 wave3 cohort3 sroclnd3 anhw1p1 lyhw1p1

anaw1p1 lyaw1p1 angft1 lygft1 anfir1 lyfir1 anspur1

lyspur1 anhfam1 lyhfam1 anhoth1 lyhoth1 anrobh1

lyrobh1 anthrow1 lythrow1 andprp1 lydprp1 anbbld1

lybbld1 ansstr1 lysstr1 anshou1 lyshou1 anscar1

lyscar1 ansgdsw1 lysgdsw1 anspot1 lyspot1 anscoc1 lyscoc1

ansher1 lysher1 anhw1p2 lyhw1p2 anaw1p2 lyaw1p2

angft2 lygft2 anfir2 lyfir2 anspur2 lyspur2 anhfam2

lyhfam2 anhoth2 lyhoth2 anrobh2 lyrobh2 anthrow2

lythrow2 andprp2 lydprp2 anbbld2 lybbld2 ansstr2

lysstr2 anshou2 lyshou2 anscar2 lyscar2 ansgdsw2 lysgdsw2

anspot2 lyspot2 anscoc2 lyscoc2 ansher2 lysher2

anhw1p3 lyhw1p3 anaw1p3 lyaw1p3 angft3 lygft3 anfir3

lyfir3 anspur3 lyspur3 anhfam3 lyhfam3 anhoth3

lyhoth3 anrobh3 lyrobh3 anthrow3 lythrow3 andprp3

lydprp3 anbbld3 lybbld3 ansstr3 lysstr3 anshou3 lyshou3

anscar3 lyscar3 ansgdsw3 lysgdsw3 anspot3 lyspot3

anscoc3 lyscoc3 ansher3 lysher3 anrawy1 lyrawy1

anaschw1 lyaschw1 andisw1 lydisw1 anpsexw1 lypsexw1

antickw1 lytickw1 andsusw1 lydsusw1 anrawy2 lyrawy2 anaschw2

lyaschw2 andisw2 lydisw2 anpsexw2 lypsexw2 antickw2

lytickw2 andsusw2 lydsusw2 anrawy3 lyrawy3 anaschw3

lyaschw3 andisw3 lydisw3 anpsexw3 lypsexw3 antickw3 lytickw3

andsusw3 lydsusw3;

USEVARIABLES ARE anrawyw1 anaschw1 andisw1 anpsexw1 antickw1 andsusw1;

CATEGORICAL ARE anrawyw1 anaschw1 andisw1 anpsexw1 antickw1 andsusw1;

Auxiliary is subid;

ANALYSIS: ESTIMATOR=MLR;

MODEL: postat1 by anrawyw1 anaschw1 andisw1 anpsexw1 antickw1 andsusw1;

OUTPUT: TECH1 TECH8;

SAVEDATA:

format is free;

File is wave1 PoStat irt scores.dat;

SAVE=FSCORES;

Plot: type=plot2;

*General Merging Syntax in SPSS.

*File names and some variable names would need to be adjusted.

*MERGE COHORT FILES.

ADD FILES /FILE=*

/RENAME (cc113 fb41_1c fb42_1c fmhhclnd fshhclnd=d0 d1 d2 d3 d4)
/FILE='DataSet3'/RENAME (fb11 fb11a0 fb16_2a0 fb16_2b0 fb24_2a0 fb24_2b0 fb27_1a0
fb27_1b0 fb27_2a0 fb27_2b0 fb29_1 fb29_2 fb6_2a0 fb6_2b0=d5 d6 d7 d8 d9 d10 d11 d12 d13
d14 d15 d16 d17 d18) /DROP=d0 d1 d2 d3 d4 d5 d6 d7 d8 d9 d10 d11 d12 d13 d14 d15 d16 d17
d18.

EXECUTE.

*MERGE WITH W1 MASTER FILE (USE ICPSR 13580).

*select C9-C15 in Master.

select if (cohort=9 | cohort=12 | cohort=15).

freq cohort.

MATCH FILES /FILE=*

/FILE='DataSet4'/RENAME (cohort source raschest wisrcraw wisrcscal wratrav wratscal = d0 d1
d2 d3 d4 d5 d6) /BY subid /DROP= d0 d1 d2 d3 d4 d5 d6.

EXECUTE.

*MERGE MASTER+COVARIATES+ SELF REPORTED OFFENDING.

MATCH FILES /FILE=*

/FILE='DataSet6' /RENAME (age1 cohort dayw1 dayw1pc dayw1sp fam_id gender sex case_id
link_nc monw1 monw1pc monw1sp ethn_nc ses_nc cell source yrw1 yrw1pc yrw1sp = d0 d1 d2
d3 d4 d5 d6 d7 d8 d9 d10 d11 d12 d13 d14 d15 d16 d17 d18 d19)

/BY subid /DROP= d0 d1 d2 d3 d4 d5 d6 d7 d8 d9 d10 d11 d12 d13 d14 d15 d16 d17 d18 d19.

EXECUTE.

*MERGE MERGE MASTER+COVARIATES+ SELF REPORTED OFFENDING+SUBSTANCE USE.

DATASET ACTIVATE DataSet12.

MATCH FILES /FILE=*

/FILE='DataSet8'/RENAME (basisid cohort source wave = d0 d1 d2 d3)

/BY subid /DROP= d0 d1 d2 d3.

EXECUTE.

2. Data Analysis.

!Latent Growth Curve Model with Substance Use-Free Model

DATA: FILE IS C9-12-15 W1-3 SUB Condensed File n=2336.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE subid basisid wave cohort source subufile suburaid
month day year hrssubus minsubus hrssubue minsubue evalcw1

lyalcw1 evpotw1 lypotw1 evcocw1 lycocw1 evcrkw1 lycrkw1
evgluw1 lygluw1 evodrw1 lyodrw1 evalcw2 lyalcw2 evpotw2

lypotw2 evcocw2 lycocw2 evcrkw2 lycrkw2 evgluw2 lygluw2
evpsyw2 lypsyw2 evherw2 lyherw2 evbarw2 lybarw2 evtraw2

lytraw2 evampw2 lyampw2 evalcw3 lyalcw3 evpotw3 lypotw3
evcocw3 lycocw3 evcrkw3 lycrkw3 evgluw3 lygluw3 evpsyw3

lypsyw3 evherw3 lyherw3 evbarw3 lybarw3 evtraw3 lytraw3
evampw3 lyampw3 subuclnd evpsyw1 lypsyw1 evherw1 lyherw1

evbarw1 lybarw1 evtraw1 lytraw1 evampw1 lyampw1 evalcw1b
lyalcw1b evpotw1b lypotw1b evcocw1b lycocw1b evcrkw1b

lycrkw1b evgluw1b lygluw1b evodrw1b lyodrw1b evalcw2b
lyalcw2b evpotw2b lypotw2b evcocw2b lycocw2b evcrkw2b lycrkw2b

evgluw2b lygluw2b evpsyw2b lypsyw2b evherw2b lyherw2b
evbarw2b lybarw2b evtraw2b lytraw2b evampw2b lyampw2b

evalcw3b lyalcw3b evpotw3b lypotw3b evcocw3b lycocw3b
evcrkw3b lycrkw3b evgluw3b lygluw3b evpsyw3b lypsyw3b

evherw3b lyherw3b evbarw3b lybarw3b evtraw3b lytraw3b evampw3b
lyampw3b evpsyw1b lypsyw1b evherw1b lyherw1b evbarw1b

lybarw1b evtraw1b lytraw1b evampw1b lyampw1b lyodrw2b
lyodrw3b laodw1b laodw2b laodw3b lyad4w1b lyad4w2b

lyad4w3b lydrwg1b lydrwg2b lydrwg3b lyad3w1b lyad3w2b lyad3w3b;

usevariables are laodw1b laodw2b laodw3b;

count= laodw1b (i) laodw2b (i) laodw3b (i);

classes= ccoh (3);

knownclass= ccoh (cohort=9 cohort=12 cohort=15);

useobservations=cohort<15

Analysis: type=mixture;

algorithm=integration;

process=4;

MODEL:

%Overall%

i s | laodw1b@0 laodw2b@2 laodw3b@4;

[i* s*];

i*; s*;

i with s*;

[LYAODW1B#1*];


```
[LYAODW2B#1*];
[LYAODW3B#1*];
%ccoh#1%
i s |lyaodw1b@0 lyaodw2b@2 lyaodw3b@4;
[i* s*];
i*; s*;
i with s*;
[LYAODW1B#1*];
[LYAODW2B#1*];
[LYAODW3B#1*];
OUTPUT: TECH1 MODINDICES(3.84);
Plot: type is Plot1 Plot2 Plot3;
series = lyaodw1b-lyaodw3b (*);
```

!Latent Growth Curve Model with Substance Use-Constrained Model

DATA:

FILE IS C9-12-15 W1-3 SUB Condensed File n=2336.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE subid basisid wave cohort source subufile suburaid

month day year hrssubus minsubus hrssubue minsubue evalcw1

lyalcw1 evpotw1 lypotw1 evcocw1 lycocw1 evcrkw1 lycrkw1

evgluw1 lygluw1 evodrw1 lyodrw1 evalcw2 lyalcw2 evpotw2

lypotw2 evcocw2 lycocw2 evcrkw2 lycrkw2 evgluw2 lygluw2

evpsyw2 lypsyw2 evherw2 lyherw2 evbarw2 lybarw2 evtraw2

lytraw2 evampw2 lyampw2 evalcw3 lyalcw3 evpotw3 lypotw3

evcocw3 lycocw3 evcrkw3 lycrkw3 evgluw3 lygluw3 evpsyw3

lypsyw3 evherw3 lyherw3 evbarw3 lybarw3 evtraw3 lytraw3

evampw3 lyampw3 subuclnd evpsyw1 lypsyw1 evherw1 lyherw1

evbarw1 lybarw1 evtraw1 lytraw1 evampw1 lyampw1 evalcw1b

lyalcw1b evpotw1b lypotw1b evcocw1b lycocw1b evcrkw1b

lycrkw1b evgluw1b lygluw1b evodrw1b lyodrw1b evalcw2b

lyalcw2b evpotw2b lypotw2b evcocw2b lycocw2b evcrkw2b lycrkw2b

evgluw2b lygluw2b evpsyw2b lypsyw2b evherw2b lyherw2b

evbarw2b lybarw2b evtraw2b lytraw2b evampw2b lyampw2b

evalcw3b lyalcw3b evpotw3b lypotw3b evcocw3b lycocw3b

evcrkw3b lycrkw3b evgluw3b lygluw3b evpsyw3b lypsyw3b

evherw3b lyherw3b evbarw3b lybarw3b evtraw3b lytraw3b evampw3b

lyampw3b evpsyw1b lypsyw1b evherw1b lyherw1b evbarw1b

lybarw1b evtraw1b lytraw1b evampw1b lyampw1b lyodrw2b

lyodrw3b laodw1b laodw2b laodw3b lyad4w1b lyad4w2b

lyad4w3b lydrw1b lydrw2b lydrw3b lyad3w1b lyad3w2b lyad3w3b;

usevariables are laodw1b laodw2b laodw3b;

count= laodw1b (i) laodw2b (i) laodw3b (i);

classes= ccoh (3);

knownclass= ccoh (cohort=9 cohort=12 cohort=15);

Analysis: type=mixture;

algorithm=integration;

process=4;

MODEL:

%Overall%

i s | laodw1b@0 laodw2b@2 laodw3b@4;

OUTPUT: TECH1 MODINDICES(3.84);

Plot: type is Plot1 Plot2 Plot3;

series = laodw1b-laodw3b (*);

!Latent Growth Curve Model with Delinquency (Violence)-Free Model

DATA: FILE IS SRO PHDCN rasch scores data 10-1-10.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE anhw1 anaw1 ansp1 anho1 anrob1 anthrow1

angft1 subid viol1 viol1se anhw2 anaw2 ansp2 anho2

anrob2 anthrow2 angft2 viol2 viol2se anhw3 anaw3

ansp3 anho3 anrob3 anthrow3 angft3 viol3

viol3se andpr1 anbb1 ansstr1 anscar1 ansgd1 prop1

prop1se andpr2 anbb2 ansstr2 anscar2 ansgd2

prop2 prop2se andpr3 anbb3 ansstr3 anscar3 ansgd3

prop3 prop3se anscoc1 anspot1 ansher1 drug1 drug1se

anscoc3 anspot3 ansher3 drug3 drug3se anrawy1 anaschw1

andisw1 anpsexw1 antickw1 andsusw1 postat1 postat1se

anrawy2 anaschw2 andisw2 anpsexw2 antickw2 andsusw2

postat2 postat2se anrawy3 anaschw3 andisw3 anpsexw3 antickw3

andsusw3 postat3 postat3se anscoc2 anspot2 ansherw2

drug2 drug2se cohort source monw1 dayw1 yrw1 monw1sp

dayw1sp yrw1sp monw1pc dayw1pc yrw1pc link_nc cell ses_nc

ethn_nc sex age1 case_id fam_id gender;

usevariables are viol1 viol2 viol3;

censored= viol1 (b) viol2 (b) viol3 (b);

classes= ccoh (3);

knownclass= ccoh (cohort=9 cohort=12 cohort=15);

Analysis: type=mixture;

algorithm=integration;

process=2;

MODEL:

%Overall%

i s |viol1@0 viol2@2 viol3@4;

[i* s*]; i*; s*; i with s*;

%ccoh#1%

i s |viol1@0 viol2@2 viol3@4;

[i* s*]; i*; s*; i with s*;

%ccoh#2%

i s |viol1@0 viol2@2 viol3@4;

[i* s*]; i*; s*; i with s*;

OUTPUT: TECH1 MODINDICES(3.84);

Plot: type is Plot1 Plot2 Plot3;

series = viol1 (0) viol2 (1) viol3 (2);

!Latent Growth Curve Model with Delinquency (Violence)-Constrained Model

DATA: FILE IS SRO PHDCN rasch scores data 10-1-10.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE anhw1 anaw1 ansp1 anho1 anrob1 anthrow1

angft1 subid viol1 viol1se anhw2 anaw2 ansp2 anho2

anrob2 anthrow2 angft2 viol2 viol2se anhw3 anaw3

anspur3 anho3 anrob3 anthrow3 angft3 viol3

viol3se andprw1 anbbldw1 ansstrw1 anscarw1 ansgdsw1 prop1

prop1se andprw2 anbbldw2 ansstrw2 anscarw2 ansgdsw2

prop2 prop2se andprw3 anbbldw3 ansstrw3 anscarw3 ansgdsw3

prop3 prop3se anscocw1 anspotw1 ansherw1 drug1 drug1se

anscocw3 anspotw3 ansherw3 drug3 drug3se anrawy1 anaschw1

andisw1 anpsexw1 antickw1 andsusw1 postat1 postat1se

anrawy2 anaschw2 andisw2 anpsexw2 antickw2 andsusw2

postat2 postat2se anrawy3 anaschw3 andisw3 anpsexw3 antickw3

andsusw3 postat3 postat3se anscocw2 anspotw2 ansherw2

drug2 drug2se cohort source monw1 dayw1 yrw1 monw1sp

dayw1sp yrw1sp monw1pc dayw1pc yrw1pc link_nc cell ses_nc

ethn_nc sex age1 case_id fam_id gender;

usevariables are viol1 viol2 viol3;

censored= viol1 (b) viol2 (b) viol3 (b);

classes= ccoh (3);

knownclass= ccoh (cohort=9 cohort=12 cohort=15);

useobservations=cohort<15;

Analysis: type=mixture;

algorithm=integration;

process=4;

MODEL:

%Overall%

i s |viol1@0 viol2@2 viol3@4;

[i] (1); [s] (2); i (3); s (4); i WITH s (5);

%ccoh#2%

i s |viol1@0 viol2@2 viol3@4;

OUTPUT: TECH1 MODINDICES(3.84);

Plot: type is Plot1 Plot2 Plot3;

series = viol1 (0) viol2 (1) viol3 (2);

!Latent Growth Curve Model with Substance Use- with Covariates

DATA: FILE IS F:\Full PHDCN C9-C15 10-9-11 Condensed Multilevel C.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE LINKNC POLICING NFRKIN NTIES DEV19YR ANOMIE DEV13YR
DISORDER PVIOL COHESION NDECLINE CAPITAL NANONYM CONTROL
EBPOLIC EBNFRKIN EBNTIES EBDEV19 EBANOMIE EBDEV13 EBDISORD
EBPVIOL EBCOHESI EBNDECL EBCAPITA EBANANONY EBCONTRO
CHILDC NDANGER CHLDTIES SOCDISOR PHYSDISO FIGHT NATTACH
EBCHILDC EBNDANGE EBCHLDTI EBSOCDIS EBPHYSDI EBFIGHT EBNATTAC
NORGS ORGINV NORGINV YSERVICE SNTOTVIC RNTOTVIC NACTIVE
DELRATE EBNORGS EBORGINV EBNORGIN EBYSERVI EBSNTOTV
EBRNTOTV EBNACTIV EBDELROT subid cohort cell sesnc ethnnc
sex age1 ethnpc ethnpr ethndad ethnmom educpc educpr
educdad educmom mstatpc dc1a0 ethn18 educ18 pcrelat famsize
ei1 wratraw wratscal wiscraw raschest wiscscal waisraw
waisscal eiwascal sbraw sbscal iauid prolant age1pc
ethnsp famstruc incmpcap iseimax ieducmax isalary sescomp
seimaxi educmaxi salaryi sesi gender basisid wave dp1a0
wdrawc somatc anxdpc soclc thghtc attntc delinc aggreg
othprbc intc extc totc cwdrawc csomatc canxdpc csoclc
cthghtc cattntc cdelinc caggreg cintc cextc ctotc bwdrawc
bsomatc banxdpc bsoclc bthghtc battntc bdelinc baggreg
bintc bextc btotc inttc exttc tottc easifile easiraid easiimp
easiinh easidec easissk easipers easiactv easiemot
easisoc easishy easisosh fesctrlr fescnflr fesrelir fescnfls
fesrelis fesctrls frpssA frpssB fampssA fampssB othpss
totpss tfmhlprb tfmhlntr famhtxt famclgl famddrg anyfamhh
propeerA propeerB aspeerA aspeerB prinfdrg famphill
parlhost parwarm homeint homeext fparmsup viol1 viol1se
viol2 viol2se viol3 viol3se prop1 prop1se prop2 prop2se
prop3 prop3se drug1 drug1se drug3 drug3se postat1 postat1se
postat2 postat2se postat3 postat3se drug2 drug2se
subufile suburaid evalcw1b lyalcw1b evpotw1b lypotw1b
evcocw1b lycocw1b evcrkw1b lycrkw1b evodrw1b lyodrw1b evalcw2b
lyalcw2b evpotw2b lypotw2b evcocw2b lycocw2b evcrkw2b
lycrkw2b evalcw3b lyalcw3b evpotw3b lypotw3b evcocw3b
lycocw3b evcrkw3b lycrkw3b lyodrw2b lyodrw3b lyaodw1b
lyaodw2b lyaodw3b lyad4w1b lyad4w2b lyad4w3b lydrw1b lydrw2b
lydrw3b lyad3w1b lyad3w2b lyad3w3b fullaod age2
age3 Selfcont hispanic othrace Black White parefscr easi1
scsum zscsum sumceff lysrow1b lysrow1m lysrow1v lysrow2b
lysrow2m lysrow2v lysrow3b lysrow3m lysrow3v lysrpw1b
lysrpw1m lysrpw1v lysrpw2b lysrpw2m lysrpw2v lysrpw3b

```
lysrpw3m lysrpw3v lysrvw1b lysrvw1m lysrvw1v lysrvw2b lysrvw2m
lysrvw2v lysrvw3b lysrvw3m lysrvw3v;
usevariables are zscsum White gender parlhost parwarm fparmsup sescomp totpps aspeerB
lyaodw1b lyaodw2b lyaodw3b;
count= lyaodw1b (i) lyaodw2b (i) lyaodw3b (i);
useobservations are cohort==9;
Analysis:
algorithm=integration;
integration=2;
starts=1000 100;
miterations=2000;
processors=4;
MODEL:
i s |lyaodw1b@0 lyaodw2b@2 lyaodw3b@4;
i s on zscsum White gender parlhost parwarm fparmsup sescomp totpps aspeerB*;
[i* s*];
i*; s*;
i with s*;
OUTPUT: MODINDICES(3.84);
Plot: type is Plot1 Plot2 Plot3;
series = lyaodw1b (0) lyaodw2b (2) lyaodw3b (4);
```

!Latent Growth Curve Model with Delinquency (Violence)- with Covariates

DATA: FILE IS F:\Full PHDCN C9-C15 10-13-11 Condensed Multilevel C.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE LINKNC POLICING NFRKIN NTIES DEV19YR ANOMIE DEV13YR
DISORDER PVIOL COHESION NDECLINE CAPITAL NANONYM CONTROL
EBPOLIC EBNFRKIN EBNTIES EBDEV19 EBANOMIE EBDEV13 EBDISORD
EBPVIOL EBCOHESI EBNDECL EBCAPITA EBANANONY EBCONTRO
CHILDC NDANGER CHLDTIES SOCDISOR PHYSDISO FIGHT NATTACH
EBCHILDC EBNDANGE EBCHLDTI EBSOCDIS EBPHYSDI EBFIGHT EBNATTAC
NORGS ORGINV NORGINV YSERVICE SNTOTVIC RNTOTVIC NACTIVE
DELRATE EBNORGS EBORGINV EBNORGIN EBYSERVI EBSNTOTV
EBRNTOTV EBNACTIV EBDEL RAT subid cohort cell sesnc ethnnc
sex age1 ethnpc ethnpr ethndad ethnmom educpc educpr
educdad educmom mstatpc dc1a0 ethn18 educ18 pcrelat famsize
ei1 wratraw wratscal wiscraw raschest wiscscal waisraw
waisscal eiwascal sbraw sbscal iauid prolant age1pc
ethnsp famstruc incmpcap iseimax ieducmax isalary sescomp
seimaxi educmaxi salaryi sesi gender basisid wave dp1a0
wdrawc somatc anxdpc soclc thghtc attntc delinc aggreg
othprbc intc extc totc cwdrawc csomatc canxdpc csoclc
cthghtc cattntc cdelinc caggreg cintc cextc ctotc bwdrawc
bsomatc banxdpc bsoclc bthghtc battntc bdelinc baggreg
bintc bextc btotc inttc exttc tottc easifile easiraid easiimp
easiinh easidec easissk easipers easiactv easiemot
easisoc easishy easisosh fesctrlr fescnflr fesrelir fescnfls
fesrelis fesctrls frpssA frpssB fampssA fampssB othpss
totpss tfmhlprb tfmhlntr famhtxt famclgl famddrg anyfamhh
propeerA propeerB aspeerA aspeerB prinfdrg famphill
parlhost parwarm homeint homeext fparmsup viol1 viol1se
viol2 viol2se viol3 viol3se prop1 prop1se prop2 prop2se
prop3 prop3se drug1 drug1se drug3 drug3se postat1 postat1se
postat2 postat2se postat3 postat3se drug2 drug2se
subufile suburaid evalcw1b lyalcw1b evpotw1b lypotw1b
evcocw1b lycocw1b evcrkw1b lycrkw1b evodrw1b lyodrw1b evalcw2b
lyalcw2b evpotw2b lypotw2b evcocw2b lycocw2b evcrkw2b
lycrkw2b evalcw3b lyalcw3b evpotw3b lypotw3b evcocw3b
lycocw3b evcrkw3b lycrkw3b lyodrw2b lyodrw3b lyaodw1b
lyaodw2b lyaodw3b lyad4w1b lyad4w2b lyad4w3b lydrw1b lydrw2b
lydrw3b lyad3w1b lyad3w2b lyad3w3b fullaod age2
age3 Selfcont hispanic othrace Black White parefscr easi1
scsum zscsum sumceff lysrow1b lysrow1m lysrow1v lysrow2b
lysrow2m lysrow2v lysrow3b lysrow3m lysrow3v lysrpw1b
lysrpw1m lysrpw1v lysrpw2b lysrpw2m lysrpw2v lysrpw3b

```
lysrpw3m lysrpw3v lysrvw1b lysrvw1m lysrvw1v lysrvw2b lysrvw2m
lysrvw2v lysrvw3b lysrvw3m lysrvw3v;
usevariables are zscsum White gender parlhost parwarm fparmsup sescomp totpps aspeerB
viol1 viol2 viol3;
censored= viol1 (b) viol2 (b) viol3 (b);
useobservations are cohort==9;
Analysis:
algorithm=integration;
integration=2;
starts=1000 100;
miterations=2000;
processors=4;
MODEL:
i s |viol1@0 viol2@2 viol3@4;
i s on zscsum White gender parlhost parwarm fparmsup sescomp totpps aspeerB*;
[i* s*];
i*; s*;
i with s*;
OUTPUT: MODINDICES(3.84);
plot: type is Plot1 Plot2 Plot3;
series = viol1 (0) viol2 (2) viol3 (4);
```


!Multilevel Latent Growth Curve Model with Substance Use.

DATA: FILE IS Full PHDCN C9-C15 7-8-11 Condensed Multilevel.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE LINKNC POLICING NFRKIN NTIES DEV19YR ANOMIE DEV13YR
DISORDER PVIOL COHESION NDECLINE CAPITAL NANONYM CONTROL
EBPOLIC EBNFRKIN EBNTIES EBDEV19 EBANOMIE EBDEV13 EBDISORD
EBPVIOL EBCOHESI EBNDDECL EBCAPITA EBANANONY EBCONTRO
CHILD NDANGER CHLDTIES SOCDISOR PHYSDISO FIGHT NATTACH
EBCHILDC EBNDANGE EBCHLDTI EBSOCDIS EBPHYSDI EBFIGHT EBNATTAC
NORGS ORGINV NORGINV YSERVICE SNTOTVIC RNTOTVIC NACTIVE
DELRATE EBNORGS EBORGINV EBNORGIN EBYSERVI EBSNTOTV
EBRNTOTV EBNACTIV EBDELRAT subid cohort cell sesnc ethnnc
sex age1 ethnpc ethnpr ethndad ethnmom educpc educpr
educdad educmom mstatpc dc1a0 ethn18 educ18 pcrelat famsize
ei1 wratraw wratscal wiscraw raschest wiscscal waisraw
waisscal eiwasal sbraw sbscal iauid prolant age1pc
ethnsp famstruc incmpcap iseimax ieducmax isalary sescomp
seimaxi educmaxi salaryi sesi gender basisid wave dp1a0
wdrawc somatc anxdpc soclc thghtc attntc delinc aggreg
othprbc intc extc totc cwdrawc csomatc canxdpc csoclc
cthghtc cattntc cdelinc caggrec cintc cextc ctotc bwdrawc
bsomatc banxdpc bsoclc bthghtc battntc bdelinc baggreg
bintc bextc btotc inttc exttc tottc easifile easiraid easiimp
easiinh easidec easissk easipers easiactv easiemot
easisoc easishy easisosh fesctrlr fescnflr fesrelir fescnfls
fesrelis fesctrls frpssA frpssB fampssA fampssB othpss
totpss tfmhlprb tfmhltr famhtxt famclgl famddrg anyfamh
propeerA propeerB aspeerA aspeerB prinfdrg famphill
parlhost parwarm homeint homeext fparmsup viol1 viol1se
viol2 viol2se viol3 viol3se prop1 prop1se prop2 prop2se
prop3 prop3se drug1 drug1se drug3 drug3se postat1 postat1se
postat2 postat2se postat3 postat3se drug2 drug2se
subufile suburaid evalcw1b lyalcw1b evpotw1b lypotw1b
evcocw1b lycocw1b evcrkw1b lycrkw1b evgluw1b lygluw1b evodrw1b
lyodrw1b evalcw2b lyalcw2b evpotw2b lypotw2b evcocw2b
lycocw2b evcrkw2b lycrkw2b evgluw2b lygluw2b evpsyw2b
lypsyw2b evherw2b lyherw2b evbarw2b lybarw2b evtraw2b
lytraw2b evampw2b lyampw2b evalcw3b lyalcw3b evpotw3b lypotw3b
evcocw3b lycocw3b evcrkw3b lycrkw3b evgluw3b lygluw3b
evpsyw3b lypsyw3b evherw3b lyherw3b evbarw3b lybarw3b
evtraw3b lytraw3b evampw3b lyampw3b evpsyw1b lypsyw1b
evherw1b lyherw1b evbarw1b lybarw1b evtraw1b lytraw1b
evampw1b lyampw1b lyodrw2b lyodrw3b lyaodw1b lyaodw2b lyaodw3b

```
lyad4w1b lyad4w2b lyad4w3b lydrw1b lydrw2b lydrw3b
lyad3w1b lyad3w2b lyad3w3b fullaod age2 age3 Selfcont
hispanic othrace Black White pcmarry;
CLUSTER=LINKNC;
usevariables are lyaodw1b lyaodw2b lyaodw3b;
useobservations are cohort==12;
count= lyaodw1b (i) lyaodw2b (i) lyaodw3b (i);
Analysis: type=twolevel;
algorithm=integration;
integration=2;
starts=1000 100;
miterations=2000;
processors=4;
MODEL:
%WITHIN%
  iw sw |lyaodw1b@0 lyaodw2b@2 lyaodw3b@4;
  %BETWEEN%
  ib sb |lyaodw1b@0 lyaodw2b@2 lyaodw3b@4;
  lyaodw1b-lyaodw3b @0;
  ib WITH sb;
OUTPUT: TECH1 MODINDICES(3.84);
Plot: type is Plot1 Plot2 Plot3;
series = lyaodw1b (0) lyaodw2b (2) lyaodw3b (4);
```

!Multilevel Latent Growth Curve Model with Delinquency (Violence).

DATA: FILE IS Full PHDCN C9-C15 10-13-11 Condensed Multilevel C.dat;

VARIABLE:

MISSING ARE ALL (-999);

NAMES ARE LINKNC POLICING NFRKIN NTIES DEV19YR ANOMIE DEV13YR
DISORDER PVIOL COHESION NDECLINE CAPITAL NANONYM CONTROL
EBPOLIC EBNFRKIN EBNTIES EBDEV19 EBANOMIE EBDEV13 EBDISORD
EBPVIOL EBCOHESI EBNDECL EBCAPITA EBNANONY EBCONTRO
CHILDC NDANGER CHLDTIES SOCDISOR PHYSDISO FIGHT NATTACH
EBCHILDC EBNDANGE EBCHLDTI EBSOCDIS EBPHYSDI EBFIGHT EBNATTAC
NORGS ORGINV NORGINV YSERVICE SNTOTVIC RNTOTVIC NACTIVE
DELRATE EBNORGS EBORGINV EBNORGIN EBYSERVI EBSNTOTV
EBRNTOTV EBNACTIV EBDELRAT subid cohort cell sesnc ethnnc
sex age1 ethnpc ethnpr ethndad ethnmom educpc educpr
educdad educmom mstatpc dc1a0 ethn18 educ18 pcrelat famsize
ei1 wratraw wratscal wiscraw raschest wiscscal waisraw
waisscal eiwasal sbraw sbscal iauid prolant age1pc
ethnsp famstruc incmpcap iseimax ieducmax isalary sescomp
seimaxi educmaxi salaryi sesi gender basisid wave dp1a0
wdrawc somatc anxdpc soclc thghtc attntc delinc aggreg
othprbc intc extc totc cwdrawc csomatc canxdpc csoclc
cthghtc cattntc cdelinc caggreg cintc cextc ctotc bwdrawc
bsomatc banxdpc bsoclc bthghtc battntc bdelinc baggreg
bintc bextc btotc inttc exttc tottc easifile easiraid easiimp
easiinh easidec easissk easipers easiactv easiemot
easisoc easishy easisosh fesctrlr fescnflr fesrelir fescnfls
fesrelis fesctrls frpssA frpssB fampssA fampssB othpss
totpss tfmhlprb tfmhlIntr famhtxt famclgl famddrg anyfamhh
propeerA propeerB aspeerA aspeerB prinfdrg famphill
parlhost parwarm homeint homeext fparmsup viol1 viol1se
viol2 viol2se viol3 viol3se prop1 prop1se prop2 prop2se
prop3 prop3se drug1 drug1se drug3 drug3se postat1 postat1se
postat2 postat2se postat3 postat3se drug2 drug2se
subufile suburaid evalcw1b lyalcw1b evpotw1b lypotw1b
evcocw1b lycocw1b evcrkw1b lycrkw1b evgluw1b lygluw1b evodrw1b
lyodrw1b evalcw2b lyalcw2b evpotw2b lypotw2b evcocw2b
lycocw2b evcrkw2b lycrkw2b evgluw2b lygluw2b evpsyw2b
lypsyw2b evherw2b lyherw2b evbarw2b lybarw2b evtraw2b
lytraw2b evampw2b lyampw2b evalcw3b lyalcw3b evpotw3b lypotw3b
evcocw3b lycocw3b evcrkw3b lycrkw3b evgluw3b lygluw3b
evpsyw3b lypsyw3b evherw3b lyherw3b evbarw3b lybarw3b
evtraw3b lytraw3b evampw3b lyampw3b evpsyw1b lypsyw1b
evherw1b lyherw1b evbarw1b lybarw1b evtraw1b lytraw1b
evampw1b lyampw1b lyodrw2b lyodrw3b lyaodw1b lyaodw2b lyaodw3b

```
lyad4w1b lyad4w2b lyad4w3b lydrwg1b lydrwg2b lydrwg3b
lyad3w1b lyad3w2b lyad3w3b fullaod age2 age3 Selfcont
hispanic othrace Black White parefscr easi1 scsum zscsum
sumceff;
CLUSTER=LINKNC;
useobservations are cohort==9;
usevariables are viol1 viol2 viol3;
censored= viol1 (b) viol2 (b) viol3 (b);
Analysis: type=twolevel;
algorithm=integration;
integration=2;
starts=1000 100;
processors=4;
MODEL:
%WITHIN%
iw sw |viol1@0 viol2@2 viol3@4;
%BETWEEN%
ib sb |viol1@0 viol2@2 viol3@4;
viol1-viol3 @0;
ib WITH sb;
OUTPUT: TECH1 MODINDICES(3.84);
Plot: type is Plot1 Plot2 Plot3;
series = viol1 (0) viol2 (2) viol3 (4);
```