

Mplus VERSION 7.11 (Mac)  
MUTHEN & MUTHEN  
12/07/2016 8:18 AM

INPUT INSTRUCTIONS

TITLE:

m3, b1, free recall, PEK average, LGM, aehplus Conditional, female

DATA:

File = /Users/andreazammit/Desktop/EASMaster.csv;

VARIABLE:

Names are

SubjectID Sex Ethnic Caus DemEver Bagesq deathage DEM023  
Educyrs Status  
Wave\_1 Wave\_2 Wave\_3 Wave\_4 Wave\_5 Wave\_6 Wave\_7 Wave\_8  
Wave\_9 Wave\_10  
AgeAtWaveOne AgeAtWave\_2 AgeAtWave\_3 AgeAtWave\_4  
AgeAtWave\_5 AgeAtWave\_6  
AgeAtWave\_7  
AgeAtWave\_8 AgeAtWave\_9 AgeAtWave\_10  
YrsSinceBaseline\_1 YrsSinceBaseline\_2 YrsSinceBaseline\_3  
YrsSinceBaseline\_4  
YrsSinceBaseline\_5 YrsSinceBaseline\_6 YrsSinceBaseline\_7  
YrsSinceBaseline\_8  
YrsSinceBaseline\_9 YrsSinceBaseline\_10  
Blessd\_1 Blessd\_2 Blessd\_3 Blessd\_4 Blessd\_5 Blessd\_6  
Blessd\_7  
Blessd\_8 Blessd\_9 Blessd\_10  
MMS\_1 MMS\_2 MMS\_3 MMS\_4 MMS\_5 MMS\_6 MMS\_7 MMS\_8 MMS\_9  
MMS\_10  
GDSScore\_1 GDSScore\_2 GDSScore\_3 GDSScore\_4 GDSScore\_5  
GDSScore\_6 GDSScore\_7  
GDSScore\_8 GDSScore\_9 GDSScore\_10  
FreeRecall\_1 FreeRecall\_2 FreeRecall\_3 FreeRecall\_4  
FreeRecall\_5  
FreeRecall\_6 FreeRecall\_7 FreeRecall\_8 FreeRecall\_9  
FreeRecall\_10  
TotRecall\_1 TotRecall\_2 TotRecall\_3 TotRecall\_4  
TotRecall\_5 TotRecall\_6  
TotRecall\_7  
TotRecall\_8 TotRecall\_9 TotRecall\_10  
DelFreeRecall\_1 DelFreeRecall\_2 DelFreeRecall\_3  
DelFreeRecall\_4 DelFreeRecall\_5  
DelFreeRecall\_6 DelFreeRecall\_7 DelFreeRecall\_8  
DelFreeRecall\_9 DelFreeRecall\_10  
DelTotRecall\_1 DelTotRecall\_2 DelTotRecall\_3  
DelTotRecall\_4 DelTotRecall\_5  
DelTotRecall\_6 DelTotRecall\_7 DelTotRecall\_8

DelTotRecall\_9 DelTotRecall\_10  
BostonFree\_1 BostonFree\_2 BostonFree\_3 BostonFree\_4  
BostonFree\_5  
BostonFree\_6 BostonFree\_7 BostonFree\_8 BostonFree\_9  
BostonFree\_10  
Infraw\_1 Infraw\_2 Infraw\_3 Infraw\_4 Infraw\_5 Infraw\_6  
Infraw\_7  
Infraw\_8 Infraw\_9 Infraw\_10  
Vocraw\_1 Vocraw\_2 Vocraw\_3 Vocraw\_4 Vocraw\_5 Vocraw\_6  
Vocraw\_7  
Vocraw\_8 Vocraw\_9 Vocraw\_10  
Spnraw\_1 Spnraw\_2 Spnraw\_3 Spnraw\_4 Spnraw\_5 Spnraw\_6  
Spnraw\_7  
Spnraw\_8 Spnraw\_9 Spnraw\_10  
DSpnAgeScaledScore\_1 DSpnAgeScaledScore\_2  
DSpnAgeScaledScore\_3  
DSpnAgeScaledScore\_4 DSpnAgeScaledScore\_5  
DSpnAgeScaledScore\_6  
DSpnAgeScaledScore\_7 DSpnAgeScaledScore\_8  
DSpnAgeScaledScore\_9  
DSpnAgeScaledScore\_10  
Symraw\_1 Symraw\_2 Symraw\_3 Symraw\_4 Symraw\_5 Symraw\_6  
Symraw\_7 Symraw\_8 Symraw\_9 Symraw\_10  
Blockraw\_1 Blockraw\_2 Blockraw\_3 Blockraw\_4 Blockraw\_5  
Blockraw\_6  
Blockraw\_7 Blockraw\_8 Blockraw\_9 Blockraw\_10  
FAS\_1 FAS\_2 FAS\_3 FAS\_4 FAS\_5 FAS\_6 FAS\_7 FAS\_8 FAS\_9  
FAS\_10  
CAT\_1 CAT\_2 CAT\_3 CAT\_4  
CAT\_5 CAT\_6 CAT\_7 CAT\_8 CAT\_9 CAT\_10  
Grade\_1 Grade\_2 Grade\_3 Grade\_4 Grade\_5 Grade\_6 Grade\_7  
Grade\_8 Grade\_9 Grade\_10  
LM\_1 LM\_2 LM\_3 LM\_4 LM\_5 LM\_6 LM\_7 LM\_8 LM\_9 LM\_10  
CFCopy\_1 CFCopy\_2 CFCopy\_3 CFCopy\_4 CFCopy\_5 CFCopy\_6  
CFCopy\_7  
CFCopy\_8 CFCopy\_9 CFCopy\_10  
CFRecall\_1 CFRecall\_2 CFRecall\_3 CFRecall\_4 CFRecall\_5  
CFRecall\_6 CFRecall\_7  
CFRecall\_8 CFRecall\_9 CFRecall\_10  
TrA1\_1 TrA1\_2 TrA1\_3 TrA1\_4 TrA1\_5 TrA1\_6 TrA1\_7 TrA1\_8  
TrA1\_9 TrA1\_10  
TrlAZScore\_1 TrlAZScore\_2 TrlAZScore\_3 TrlAZScore\_4  
TrlAZScore\_5  
TrlAZScore\_6 TrlAZScore\_7 TrlAZScore\_8 TrlAZScore\_9  
TrlAZScore\_10  
TMTARate\_1 TMTARate\_2 TMTARate\_3 TMTARate\_4 TMTARate\_5  
TMTARate\_6 TMTARate\_7  
TMTARate\_8 TMTARate\_9 TMTARate\_10  
TrA2\_1 TrA2\_2 TrA2\_3 TrA2\_4 TrA2\_5 TrA2\_6 TrA2\_7 TrA2\_8  
TrA2\_9 TrA2\_10

TrB1\_1 TrB1\_2 TrB1\_3 TrB1\_4 TrB1\_5 TrB1\_6 TrB1\_7 TrB1\_8  
TrB1\_9 TrB1\_10  
TrlBZScore\_1 TrlBZScore\_2 TrlBZScore\_3 TrlBZScore\_4  
TrlBZScore\_5  
TrlBZScore\_6 TrlBZScore\_7 TrlBZScore\_8 TrlBZScore\_9  
TrlBZScore\_10  
TMTBRate\_1 TMTBRate\_2 TMTBRate\_3 TMTBRate\_4 TMTBRate\_5  
TMTBRate\_6 TMTBRate\_7  
TMTBRate\_8 TMTBRate\_9 TMTBRate\_10  
TrB2\_1 TrB2\_2 TrB2\_3 TrB2\_4 TrB2\_5 TrB2\_6  
TrB2\_7 TrB2\_8 TrB2\_9 TrB2\_10  
EpisodicMemory2FreeCatLM\_1 EpisodicMemory2FreeCatLM\_2  
EpisodicMemory2FreeCatLM\_3  
EpisodicMemory2FreeCatLM\_4 EpisodicMemory2FreeCatLM\_5  
EpisodicMemory2FreeCatLM\_6 EpisodicMemory2FreeCatLM\_7  
EpisodicMemory2FreeCatLM\_8 EpisodicMemory2FreeCatLM\_9  
EpisodicMemory2FreeCatLM\_10  
FrontalExecFunc\_1 FrontalExecFunc\_2 FrontalExecFunc\_3  
FrontalExecFunc\_4  
FrontalExecFunc\_5 FrontalExecFunc\_6 FrontalExecFunc\_7  
FrontalExecFunc\_8  
FrontalExecFunc\_9 FrontalExecFunc\_10  
Language2BostVoc\_1 Language2BostVoc\_2  
Language2BostVoc\_3 Language2BostVoc\_4 Language2BostVoc\_5  
Language2BostVoc\_6 Language2BostVoc\_7 Language2BostVoc\_8  
Language2BostVoc\_9 Language2BostVoc\_10  
DysExec\_1 DysExec\_2 DysExec\_3 DysExec\_4 DysExec\_5  
DysExec\_6 DysExec\_7  
DysExec\_8 DysExec\_9 DysExec\_10  
aMCI1\_1 aMCI1\_2 aMCI1\_3 aMCI1\_4 aMCI1\_5 aMCI1\_6 aMCI1\_7  
aMCI1\_8 aMCI1\_9 aMCI1\_10  
naMCI1\_1 naMCI1\_2 naMCI1\_3 naMCI1\_4 naMCI1\_5 naMCI1\_6  
naMCI1\_7  
naMCI1\_8 naMCI1\_9 naMCI1\_10  
CumulMI\_1 CumulMI\_2 CumulMI\_3 CumulMI\_4  
CumulMI\_5 CumulMI\_6 CumulMI\_7 CumulMI\_8 CumulMI\_9  
CumulMI\_10  
CumulStroke\_1 CumulStroke\_2 CumulStroke\_3 CumulStroke\_4  
CumulStroke\_5  
CumulStroke\_6 CumulStroke\_7 CumulStroke\_8 CumulStroke\_9  
CumulStroke\_10  
CumulDiab\_1 CumulDiab\_2 CumulDiab\_3 CumulDiab\_4  
CumulDiab\_5 CumulDiab\_6  
CumulDiab\_7 CumulDiab\_8 CumulDiab\_9 CumulDiab\_10  
DMever  
CumulHyper\_1 CumulHyper\_2 CumulHyper\_3 CumulHyper\_4  
CumulHyper\_5  
CumulHyper\_6 CumulHyper\_7 CumulHyper\_8 CumulHyper\_9  
CumulHyper\_10  
CumulAngina\_1 CumulAngina\_2 CumulAngina\_3 CumulAngina\_4

CumulAngina\_5  
    CumulAngina\_6 CumulAngina\_7 CumulAngina\_8 CumulAngina\_9  
CumulAngina\_10  
    CumulHrtFail\_1 CumulHrtFail\_2 CumulHrtFail\_3  
CumulHrtFail\_4 CumulHrtFail\_5  
    CumulHrtFail\_6 CumulHrtFail\_7 CumulHrtFail\_8  
CumulHrtFail\_9 CumulHrtFail\_10  
    CumulPD\_1 CumulPD\_2 CumulPD\_3 CumulPD\_4 CumulPD\_5  
CumulPD\_6 CumulPD\_7  
    CumulPD\_8 CumulPD\_9 CumulPD\_10  
    CumulDep\_1 CumulDep\_2 CumulDep\_3 CumulDep\_4  
    CumulDep\_5 CumulDep\_6 CumulDep\_7 CumulDep\_8 CumulDep\_9  
CumulDep\_10  
    CumulAnemia\_1 CumulAnemia\_2 CumulAnemia\_3 CumulAnemia\_4  
CumulAnemia\_5  
    CumulAnemia\_6 CumulAnemia\_7 CumulAnemia\_8 CumulAnemia\_9  
CumulAnemia\_10  
    CVIndexArWave\_1 CVIndexArWave\_2 CVIndexArWave\_3  
CVIndexArWave\_4 CVIndexArWave\_5  
    CVIndexArWave\_6 CVIndexArWave\_7 CVIndexArWave\_8  
CVIndexArWave\_9 CVIndexArWave\_10  
    CVIndexCumul\_1 CVIndexCumul\_2 CVIndexCumul\_3  
CVIndexCumul\_4 CVIndexCumul\_5  
    CVIndexCumul\_6 CVIndexCumul\_7 CVIndexCumul\_8  
CVIndexCumul\_9 CVIndexCumul\_10  
    BloodPres1stSys\_1 BloodPres1stSys\_2 BloodPres1stSys\_3  
BloodPres1stSys\_4  
    BloodPres1stSys\_5 BloodPres1stSys\_6 BloodPres1stSys\_7  
BloodPres1stSys\_8  
    BloodPres1stSys\_9 BloodPres1stSys\_10  
    BloodPres1stDia\_1 BloodPres1stDia\_2 BloodPres1stDia\_3  
BloodPres1stDia\_4  
    BloodPres1stDia\_5 BloodPres1stDia\_6 BloodPres1stDia\_7  
BloodPres1stDia\_8  
    BloodPres1stDia\_9 BloodPres1stDia\_10  
    Ht\_1 Ht\_2 Ht\_3 Ht\_4 Ht\_5 Ht\_6 Ht\_7 Ht\_8 Ht\_9 Ht\_10  
    Wt\_1 Wt\_2 Wt\_3 Wt\_4 Wt\_5 Wt\_6 Wt\_7 Wt\_8 Wt\_9 Wt\_10  
    BMI\_1 BMI\_2 BMI\_3 BMI\_4 BMI\_5 BMI\_6 BMI\_7 BMI\_8 BMI\_9  
BMI\_10  
    Waist\_1 Waist\_2 Waist\_3 Waist\_4 Waist\_5 Waist\_6 Waist\_7  
Waist\_8 Waist\_9 Waist\_10  
    Hip\_1 Hip\_2 Hip\_3 Hip\_4 Hip\_5 Hip\_6 Hip\_7 Hip\_8 Hip\_9  
Hip\_10  
    Velocity\_1 Velocity\_2 Velocity\_3 Velocity\_4 Velocity\_5  
Velocity\_6 Velocity\_7  
    Velocity\_8 Velocity\_9 Velocity\_10  
    ChairRaiseTime\_1 ChairRaiseTime\_2 ChairRaiseTime\_3  
ChairRaiseTime\_4  
    ChairRaiseTime\_5 ChairRaiseTime\_6 ChairRaiseTime\_7  
ChairRaiseTime\_8

ChairRaiseTime\_9 ChairRaiseTime\_10  
FlamingoStandTime\_1 FlamingoStandTime\_2  
FlamingoStandTime\_3 FlamingoStandTime\_4  
FlamingoStandTime\_5 FlamingoStandTime\_6  
FlamingoStandTime\_7 FlamingoStandTime\_8  
FlamingoStandTime\_9 FlamingoStandTime\_10  
MaxEff\_1 MaxEff\_2 MaxEff\_3 MaxEff\_4 MaxEff\_5 MaxEff\_6  
MaxEff\_7  
MaxEff\_8 MaxEff\_9 MaxEff\_10  
PeakFlowBestOf3\_1 PeakFlowBestOf3\_2 PeakFlowBestOf3\_3  
PeakFlowBestOf3\_4  
PeakFlowBestOf3\_5 PeakFlowBestOf3\_6 PeakFlowBestOf3\_7  
PeakFlowBestOf3\_8  
PeakFlowBestOf3\_9 PeakFlowBestOf3\_10  
UPDRS15\_1 UPDRS15\_2 UPDRS15\_3 UPDRS15\_4 UPDRS15\_5  
UPDRS15\_6 UPDRS15\_7  
UPDRS15\_8 UPDRS15\_9 UPDRS15\_10  
UPDRS27\_1 UPDRS27\_2 UPDRS27\_3 UPDRS27\_4 UPDRS27\_5  
UPDRS27\_6 UPDRS27\_7  
UPDRS27\_8 UPDRS27\_9 UPDRS27\_10  
UPDRS28\_1 UPDRS28\_2 UPDRS28\_3 UPDRS28\_4  
UPDRS28\_5 UPDRS28\_6 UPDRS28\_7 UPDRS28\_8 UPDRS28\_9  
UPDRS28\_10  
UPDRS29\_1 UPDRS29\_2 UPDRS29\_3 UPDRS29\_4 UPDRS29\_5  
UPDRS29\_6 UPDRS29\_7  
UPDRS29\_8 UPDRS29\_9 UPDRS29\_10  
EMail\_1 EMail\_2 EMail\_3 EMail\_4 EMail\_5 EMail\_6 EMail\_7  
EMail\_8 EMail\_9 EMail\_10  
Aerobic\_1 Aerobic\_2 Aerobic\_3 Aerobic\_4 Aerobic\_5  
Aerobic\_6 Aerobic\_7  
Aerobic\_8 Aerobic\_9 Aerobic\_10  
HrsFor2WeekLight\_1 HrsFor2WeekLight\_2 HrsFor2WeekLight\_3  
HrsFor2WeekLight\_4  
HrsFor2WeekLight\_5 HrsFor2WeekLight\_6 HrsFor2WeekLight\_7  
HrsFor2WeekLight\_8  
HrsFor2WeekLight\_9 HrsFor2WeekLight\_10  
HrsFor2WeekMedium\_1 HrsFor2WeekMedium\_2  
HrsFor2WeekMedium\_3 HrsFor2WeekMedium\_4  
HrsFor2WeekMedium\_5 HrsFor2WeekMedium\_6  
HrsFor2WeekMedium\_7 HrsFor2WeekMedium\_8  
HrsFor2WeekMedium\_9 HrsFor2WeekMedium\_10  
HrsFor2WeekHeavy\_1 HrsFor2WeekHeavy\_2 HrsFor2WeekHeavy\_3  
HrsFor2WeekHeavy\_4  
HrsFor2WeekHeavy\_5 HrsFor2WeekHeavy\_6 HrsFor2WeekHeavy\_7  
HrsFor2WeekHeavy\_8  
HrsFor2WeekHeavy\_9 HrsFor2WeekHeavy\_10  
DaysPerWeekLight\_1 DaysPerWeekLight\_2 DaysPerWeekLight\_3  
DaysPerWeekLight\_4  
DaysPerWeekLight\_5 DaysPerWeekLight\_6 DaysPerWeekLight\_7  
DaysPerWeekLight\_8

```

                DaysPerWeekLight_9 DaysPerWeekLight_10
                DaysPerWeekMedium_1 DaysPerWeekMedium_2
DaysPerWeekMedium_3 DaysPerWeekMedium_4
                DaysPerWeekMedium_5
                DaysPerWeekMedium_6 DaysPerWeekMedium_7
DaysPerWeekMedium_8 DaysPerWeekMedium_9
                DaysPerWeekMedium_10
                DaysPerWeekHeavy_1 DaysPerWeekHeavy_2 DaysPerWeekHeavy_3
DaysPerWeekHeavy_4
                DaysPerWeekHeavy_5 DaysPerWeekHeavy_6 DaysPerWeekHeavy_7
DaysPerWeekHeavy_8
                DaysPerWeekHeavy_9 DaysPerWeekHeavy_10
                CigsPerDay_1 CigsPerDay_2 CigsPerDay_3
                CigsPerDay_4 CigsPerDay_5 CigsPerDay_6 CigsPerDay_7
CigsPerDay_8
                CigsPerDay_9 CigsPerDay_10
                SmokNow_1 SmokNow_2 SmokNow_3 SmokNow_4
                SmokNow_5 SmokNow_6 SmokNow_7 SmokNow_8 SmokNow_9
SmokNow_10
                SmokEver_1 SmokEver_2 SmokEver_3 SmokEver_4 SmokEver_5
SmokEver_6 SmokEver_7
                SmokEver_8 SmokEver_9 SmokEver_10
                SmokNumYrs_1 SmokNumYrs_2 SmokNumYrs_3 SmokNumYrs_4
SmokNumYrs_5
                SmokNumYrs_6 SmokNumYrs_7 SmokNumYrs_8 SmokNumYrs_9
SmokNumYrs_10
                DrinksPerMonth_1 DrinksPerMonth_2 DrinksPerMonth_3
DrinksPerMonth_4
                DrinksPerMonth_5 DrinksPerMonth_6 DrinksPerMonth_7
DrinksPerMonth_8
                DrinksPerMonth_9 DrinksPerMonth_10
                Glucose_1 Glucose_2 Glucose_3 Glucose_4 Glucose_5
Glucose_6 Glucose_7
                Glucose_8 Glucose_9 Glucose_10
                chronicpi1 chronicpi2 chronicpi3 chronicpi4 chronicpi5
chronicpi6 chronicpi7
                chronicpi8 chronicpi9 chronicpi10
                Pdever
                Cvd cisum pekavg_1 pekavg_2 pekavg_3 pekavg_4 pekavg_5;
MISSING = ALL(-9999);
                USEVAR are time1 time2 time3 time4 !time5 !time6
time7
                p1 p2 p3 p4 !p5 !p6 p7
                c1 c2 c3 c4 !c5 !c6 c7
                Bage educ height Diab SmokHist Cardio;
                TSCORES = time1 time2 time3 time4; !time5; !time6
time7;
                USEOBSERVATIONS are DemEver EQ 0 and sex EQ 1;
DEFINE:
                p1=pekavg_1; p2=pekavg_2; p3=pekavg_3;

```

```
p4=pekavg_4;
c1= FreeRecall_1; c2= FreeRecall_2; c3= FreeRecall_3; c4=
FreeRecall_4;
```

```
!c6= FreeRecall_6; c7= FreeRecall_7;
    Bage=AgeAtWaveOne-70;
    Bagesq=(AgeatWaveOne-70)**2;
    Dage=deathage;
    Educ=Educyrs-7;
    SEP=DEM023;
    time1=wave_1;
    time2=wave_2;
    time3=wave_3;
    time4=wave_4;
    time5=wave_5;
    time6=wave_6;
    time7=wave_7;
    time8=wave_8;
    time9=wave_9;
    time10=wave_10;
    Height=Ht_1-160;
    SmokHist=SmokEver_1;
    DepSymp = GDSScore_1;
    Cardio = cvd;
    Diab=DMever;
    AgeAtWave_1Educyrs=Bage*Educ;
```

ANALYSIS:

```
TYPE = RANDOM;
    ESTIMATOR=MLF;
    miterations=40000;
    h1convergence = 0.00001;
    COVERAGE = .001;
```

OUTPUT:

```
sampstat
```

MODEL:

```
ip sp | p1-p4 AT time1-time4;
ic sc | c1 - c4 AT time1-time4;
    ip(v_ip);
sp(v_sp);
ic(v_ic);
sc(v_sc);
ip WITH sp(c_ipsp);
ip WITH ic(c_ipic);
ip WITH sc (c_ipsc);
sp WITH ic (c_spic);
sp WITH sc (c_spsc);
ic WITH SC (C_ICSC);
    ip sp ic sc WITH ip sp ic sc;
ip sp ic sc ON Bage educ height smokhist cardio diab;
    c1-c4 (res_c)
```

```
p1-p4 (res_p);
p1-p4 pwith c1-c4(res_cov);
height;
```

MODEL CONSTRAINT:

```
NEW r_ipic; !assigns labels to new parameters;
NEW r_spsc;
NEW r_res_pc;

r_ipic = c_ipic/((v_ip**0.5)*(v_ic**0.5));
r_spsc = c_spsc/((v_sp**0.5)*(v_sc**0.5));
r_res_pc = res_cov/((res_p**0.5)*(res_c**0.5));
```

SAVEDATA:

```
FILE IS EAS_P_FreeRecall_Slopes_f_pekavg;
! *rename for each specific variable combination*;
SAVE = FSCORES;
```

```
PLOT: TYPE IS PLOT3;
OUTPUT: sampstat Cinterval;
```

\*\*\* WARNING

Data set contains cases with missing on x-variables.  
These cases were not included in the analysis.  
Number of cases with missing on x-variables: 237  
1 WARNING(S) FOUND IN THE INPUT INSTRUCTIONS

m3, b1, free recall, PEK average, LGM, aehplus Conditional, female

SUMMARY OF ANALYSIS

Number of groups	1
Number of observations	363
Number of dependent variables	8
Number of independent variables	6
Number of continuous latent variables	4

Observed dependent variables

Continuous



P1	P2	P3	P4	C1	C2
C3	C4				
Observed independent variables					
BAGE	EDUC	HEIGHT	DIAB	SMOKHIST	CARDIO
Continuous latent variables					
IP	SP	IC	SC		
Variables with special functions					
Time scores					
TIME1	TIME2	TIME3	TIME4		

Estimator	MLF
Information matrix	OBSERVED
Maximum number of iterations	100
Convergence criterion	0.100D-05
Maximum number of EM iterations	40000
Convergence criteria for the EM algorithm	
Loglikelihood change	0.100D-02
Relative loglikelihood change	0.100D-05
Derivative	0.100D-03
Minimum variance	0.100D-03
Maximum number of steepest descent iterations	20
Maximum number of iterations for H1	2000
Convergence criterion for H1	0.100D-04
Optimization algorithm	EMA

Input data file(s)  
 /Users/andreazammit/Desktop/EASMaster.csv  
 Input data format FREE

SUMMARY OF DATA

Number of missing data patterns 33

COVARIANCE COVERAGE OF DATA

Minimum covariance coverage value 0.001

PROPORTION OF DATA PRESENT

Covariance Coverage			
P1	P2	P3	P4

C1

	<hr/>	<hr/>	<hr/>	<hr/>
P1	0.410			
P2	0.234	0.278		
P3	0.174	0.165	0.234	
P4	0.138	0.140	0.163	0.229
C1	0.410	0.278	0.234	0.229
0.989				
C2	0.410	0.278	0.234	0.229
0.983				
C3	0.306	0.273	0.226	0.223
0.713				
C4	0.215	0.209	0.229	0.218
0.479				
HEIGHT	0.410	0.237	0.174	0.138
0.413				
BAGE	0.410	0.278	0.234	0.229
0.989				
EDUC	0.410	0.278	0.234	0.229
0.989				
DIAB	0.410	0.278	0.234	0.229
0.989				
SMOKHIST	0.410	0.278	0.234	0.229
0.989				
CARDIO	0.410	0.278	0.234	0.229
0.989				

Covariance Coverage

	C2	C3	C4	HEIGHT
BAGE				
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
C2	0.994			
C3	0.716	0.719		
C4	0.479	0.477	0.482	
HEIGHT	0.413	0.309	0.215	0.413
BAGE	0.994	0.719	0.482	0.413
1.000				
EDUC	0.994	0.719	0.482	0.413
1.000				
DIAB	0.994	0.719	0.482	0.413
1.000				
SMOKHIST	0.994	0.719	0.482	0.413
1.000				
CARDIO	0.994	0.719	0.482	0.413
1.000				

	Covariance Coverage			
	EDUC	DIAB	SMOKHIST	CARDIO
EDUC	1.000			
DIAB	1.000	1.000		
SMOKHIST	1.000	1.000	1.000	
CARDIO	1.000	1.000	1.000	1.000

SAMPLE STATISTICS

ESTIMATED SAMPLE STATISTICS

	Means			
	P1	P2	P3	P4
C1				
	_____	_____	_____	_____
1	239.574	223.792	205.136	191.242
32.287				

	Means			
	C2	C3	C4	HEIGHT
BAGE				
	_____	_____	_____	_____
1	32.157	31.539	32.074	-2.786
8.645				

	Means			
	EDUC	DIAB	SMOKHIST	CARDIO
1	6.449	0.201	0.545	0.168

	Covariances			
	P1	P2	P3	P4
C1				
	_____	_____	_____	_____
P1	5306.731			
P2	3768.830	6200.543		
P3	3326.264	4595.688	4651.647	
P4	2441.373	3629.757	3906.228	4609.773
C1	119.661	141.379	124.667	49.692
32.184				

C2	81.420	180.090	159.441	93.965
21.742				
C3	135.591	168.017	147.678	80.993
21.178				
C4	87.523	176.696	153.245	115.394
24.038				
HEIGHT	119.481	100.194	159.442	235.228
4.218				
BAGE	-111.540	-119.775	-125.094	-131.615
-5.071				
EDUC	1.632	2.236	-12.973	-1.264
0.504				
DIAB	-4.342	-2.520	-4.613	-2.405
-0.234				
SMOKHIST	-2.071	-0.554	1.231	3.446
-0.615				
CARDIO	-4.721	-4.161	-5.412	-3.464
0.119				

	Covariances			
	C2	C3	C4	HEIGHT
BAGE				
	_____	_____	_____	_____
C2	39.304			
C3	25.596	41.677		
C4	31.036	31.980	43.562	
HEIGHT	5.861	3.976	2.302	62.310
BAGE	-8.408	-11.998	-11.806	-16.758
28.344				
EDUC	3.028	2.198	3.657	2.438
-0.582				
DIAB	-0.122	-0.271	-0.248	0.177
-0.218				
SMOKHIST	-0.587	-0.685	-0.724	0.328
-0.204				
CARDIO	0.007	0.016	0.083	-0.550
0.077				

	Covariances			
	EDUC	DIAB	SMOKHIST	CARDIO
EDUC	_____	_____	_____	_____
DIAB	11.493	0.161		
SMOKHIST	-0.046	0.001	0.645	
CARDIO	-0.036	0.016	0.008	0.250
	-0.210			

C1	Correlations			
	P1	P2	P3	P4
P1	1.000			
P2	0.657	1.000		
P3	0.669	0.856	1.000	
P4	0.494	0.679	0.844	1.000
C1	0.290	0.316	0.322	0.129
1.000				
C2	0.178	0.365	0.373	0.221
0.611				
C3	0.288	0.331	0.335	0.185
0.578				
C4	0.182	0.340	0.340	0.258
0.642				
HEIGHT	0.208	0.161	0.296	0.439
0.094				
BAGE	-0.288	-0.286	-0.345	-0.364
-0.168				
EDUC	0.007	0.008	-0.056	-0.005
0.026				
DIAB	-0.149	-0.080	-0.169	-0.088
-0.103				
SMOKHIST	-0.035	-0.009	0.022	0.063
-0.135				
CARDIO	-0.130	-0.106	-0.159	-0.102
0.042				

BAGE	Correlations			
	C2	C3	C4	HEIGHT
C2	1.000			
C3	0.632	1.000		
C4	0.750	0.751	1.000	
HEIGHT	0.118	0.078	0.044	1.000
BAGE	-0.252	-0.349	-0.336	-0.399
1.000				
EDUC	0.142	0.100	0.163	0.091
-0.032				
DIAB	-0.049	-0.105	-0.094	0.056
-0.102				
SMOKHIST	-0.117	-0.132	-0.137	0.052
-0.048				
CARDIO	0.002	0.005	0.025	-0.139
0.029				

	Correlations			
	EDUC	DIAB	SMOKHIST	CARDIO
EDUC	1.000			
DIAB	-0.034	1.000		
SMOKHIST	-0.013	0.002	1.000	
CARDIO	-0.124	0.079	0.019	1.000

MAXIMUM LOG-LIKELIHOOD VALUE FOR THE UNRESTRICTED (H1) MODEL IS  
-9120.980

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 43

Loglikelihood

H0 Value -6228.452

Information Criteria

Akaike (AIC) 12542.904  
 Bayesian (BIC) 12710.363  
 Sample-Size Adjusted BIC 12573.943  
 (n\* = (n + 2) / 24)

MODEL RESULTS

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
IP	ON				
	BAGE	-3.796	1.691	-2.245	0.025
	EDUC	-0.048	2.298	-0.021	0.983
	HEIGHT	0.311	1.102	0.282	0.778
	SMOKHIST	-5.799	14.848	-0.391	0.696
	CARDIO	-12.908	15.491	-0.833	0.405
	DIAB	-26.116	21.627	-1.208	0.227
SP	ON				

	BAGE	0.014	0.598	0.023	0.981
	EDUC	-0.441	0.861	-0.512	0.609
	HEIGHT	0.532	0.378	1.407	0.159
	SMOKHIST	1.974	5.399	0.366	0.715
	CARDIO	-0.861	5.950	-0.145	0.885
	DIAB	0.362	7.551	0.048	0.962
IC	ON				
	BAGE	-0.102	0.073	-1.396	0.163
	EDUC	-0.001	0.109	-0.013	0.990
	HEIGHT	0.080	0.094	0.844	0.399
	SMOKHIST	-0.912	0.467	-1.952	0.051
	CARDIO	0.567	1.303	0.435	0.663
	DIAB	-1.237	0.998	-1.240	0.215
SC	ON				
	BAGE	-0.104	0.025	-4.181	0.000
	EDUC	0.080	0.044	1.838	0.066
	HEIGHT	-0.043	0.031	-1.372	0.170
	SMOKHIST	-0.081	0.259	-0.313	0.754
	CARDIO	0.023	0.366	0.062	0.951
	DIAB	-0.245	0.329	-0.744	0.457
IP	WITH				
	SP	-563.432	345.525	-1.631	0.103
	IC	93.778	74.920	1.252	0.211
	SC	-5.444	19.055	-0.286	0.775
SP	WITH				
	IC	-9.774	24.808	-0.394	0.694
	SC	4.222	6.733	0.627	0.531
IC	WITH				
	SC	0.593	1.150	0.516	0.606
P1	WITH				
	C1	10.457	12.236	0.855	0.393
P2	WITH				
	C2	10.457	12.236	0.855	0.393
P3	WITH				
	C3	10.457	12.236	0.855	0.393
P4	WITH				
	C4	10.457	12.236	0.855	0.393
Means					
	HEIGHT	-2.378	0.726	-3.275	0.001

Intercepts				
P1	0.000	0.000	999.000	999.000
P2	0.000	0.000	999.000	999.000
P3	0.000	0.000	999.000	999.000
P4	0.000	0.000	999.000	999.000
C1	0.000	0.000	999.000	999.000
C2	0.000	0.000	999.000	999.000
C3	0.000	0.000	999.000	999.000
C4	0.000	0.000	999.000	999.000
IP	306.093	20.581	14.872	0.000
SP	-15.868	7.953	-1.995	0.046
IC	34.159	1.044	32.727	0.000
SC	0.189	0.428	0.442	0.658
Variances				
HEIGHT	60.512	8.309	7.283	0.000
Residual Variances				
P1	1149.297	128.019	8.978	0.000
P2	1149.297	128.019	8.978	0.000
P3	1149.297	128.019	8.978	0.000
P4	1149.297	128.019	8.978	0.000
C1	12.805	0.739	17.325	0.000
C2	12.805	0.739	17.325	0.000
C3	12.805	0.739	17.325	0.000
C4	12.805	0.739	17.325	0.000
IP	4638.077	1105.648	4.195	0.000
SP	195.941	145.001	1.351	0.177
IC	16.350	3.359	4.867	0.000
SC	0.316	0.476	0.663	0.507
New/Additional Parameters				
R_IPIC	0.341	0.259	1.317	0.188
R_SPSC	0.537	0.890	0.603	0.546
R_RES_PC	0.086	0.102	0.841	0.400

QUALITY OF NUMERICAL RESULTS

Condition Number for the Information Matrix  
0.534E-06  
(ratio of smallest to largest eigenvalue)

CONFIDENCE INTERVALS OF MODEL RESULTS

	Upper 5%	Upper 2.5%	Lower .5%	Lower 2.5%	Lower 5%	Estimate
IP						ON



BAGE		-8.153	-7.111	-6.579	-3.796
-1.014	-0.482	0.560			
EDUC		-5.968	-4.553	-3.829	-0.048
3.733	4.457	5.872			
HEIGHT		-2.528	-1.849	-1.502	0.311
2.124	2.471	3.150			
SMOKHIST		-44.043	-34.900	-30.223	-5.799
18.625	23.302	32.445			
CARDIO		-52.810	-43.271	-38.391	-12.908
12.576	17.456	26.995			
DIAB		-81.822	-68.504	-61.692	-26.116
9.460	16.272	29.590			

SP	ON				
BAGE		-1.527	-1.159	-0.970	0.014
0.998	1.187	1.555			
EDUC		-2.660	-2.130	-1.858	-0.441
0.976	1.247	1.778			
HEIGHT		-0.442	-0.209	-0.090	0.532
1.154	1.273	1.506			
SMOKHIST		-11.934	-8.609	-6.908	1.974
10.856	12.556	15.881			
CARDIO		-16.186	-12.522	-10.648	-0.861
8.927	10.801	14.465			
DIAB		-19.086	-14.437	-12.058	0.362
12.783	15.161	19.811			

IC	ON				
BAGE		-0.291	-0.246	-0.223	-0.102
0.018	0.041	0.087			
EDUC		-0.282	-0.215	-0.181	-0.001
0.178	0.212	0.279			
HEIGHT		-0.163	-0.105	-0.076	0.080
0.235	0.265	0.323			
SMOKHIST		-2.116	-1.828	-1.681	-0.912
-0.144	0.004	0.291			
CARDIO		-2.790	-1.987	-1.577	0.567
2.711	3.122	3.924			
DIAB		-3.808	-3.193	-2.879	-1.237
0.405	0.719	1.334			

SC	ON				
BAGE		-0.167	-0.152	-0.144	-0.104
-0.063	-0.055	-0.040			
EDUC		-0.032	-0.005	0.008	0.080
0.152	0.165	0.192			
HEIGHT		-0.124	-0.105	-0.095	-0.043
0.009	0.018	0.038			
SMOKHIST		-0.747	-0.588	-0.506	-0.081
0.344	0.426	0.585			

CARDIO		-0.920	-0.695	-0.579	0.023
0.625	0.740	0.965			
DIAB		-1.092	-0.889	-0.786	-0.245
0.296	0.400	0.603			
IP	WITH				
SP		-1453.434	-1240.660	-1131.820	-563.432
4.957	113.797	326.571			
IC		-99.201	-53.066	-29.466	93.778
217.021	240.621	286.757			
SC		-54.526	-42.791	-36.789	-5.444
25.902	31.904	43.638			
SP	WITH				
IC		-73.675	-58.398	-50.583	-9.774
31.036	38.850	54.127			
SC		-13.121	-8.975	-6.854	4.222
15.298	17.419	21.565			
IC	WITH				
SC		-2.369	-1.661	-1.298	0.593
2.485	2.847	3.555			
P1	WITH				
C1		-21.061	-13.526	-9.671	10.457
30.585	34.440	41.975			
P2	WITH				
C2		-21.061	-13.526	-9.671	10.457
30.585	34.440	41.975			
P3	WITH				
C3		-21.061	-13.526	-9.671	10.457
30.585	34.440	41.975			
P4	WITH				
C4		-21.061	-13.526	-9.671	10.457
30.585	34.440	41.975			
Means					
HEIGHT		-4.248	-3.801	-3.572	-2.378
-1.183	-0.955	-0.508			
Intercepts					
P1		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
P2		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
P3		0.000	0.000	0.000	0.000
0.000	0.000	0.000			

P4		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
C1		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
C2		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
C3		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
C4		0.000	0.000	0.000	0.000
0.000	0.000	0.000			
IP		253.080	265.754	272.237	306.093
339.949	346.432	359.106			
SP		-36.352	-31.455	-28.950	-15.868
-2.786	-0.281	4.617			
IC		31.470	32.113	32.442	34.159
35.876	36.204	36.847			
SC		-0.914	-0.650	-0.515	0.189
0.894	1.029	1.293			

Variances					
HEIGHT		39.110	44.226	46.843	60.512
74.180	76.797	81.914			

Residual Variances					
P1		819.545	898.379	938.705	1149.297
1359.889	1400.215	1479.049			
P2		819.545	898.379	938.705	1149.297
1359.889	1400.215	1479.049			
P3		819.545	898.379	938.705	1149.297
1359.889	1400.215	1479.049			
P4		819.545	898.379	938.705	1149.297
1359.889	1400.215	1479.049			
C1		10.901	11.357	11.589	12.805
14.021	14.254	14.709			
C2		10.901	11.357	11.589	12.805
14.021	14.254	14.709			
C3		10.901	11.357	11.589	12.805
14.021	14.254	14.709			
C4		10.901	11.357	11.589	12.805
14.021	14.254	14.709			
IP		1790.148	2471.006	2819.285	4638.077
6456.868	6805.147	7486.005			
SP		-177.553	-88.261	-42.586	195.941
434.468	480.144	569.436			
IC		7.698	9.766	10.825	16.350
21.876	22.934	25.003			
SC		-0.911	-0.618	-0.468	0.316
1.099	1.249	1.542			

New/Additional Parameters

R_IPIC		-0.325	-0.166	-0.085	0.341
0.766	0.847	1.007			
R_SPSC		-1.756	-1.208	-0.928	0.537
2.001	2.282	2.830			
R_RES_PC		-0.178	-0.115	-0.082	0.086
0.255	0.287	0.350			

SAMPLE STATISTICS FOR ESTIMATED FACTOR SCORES

SAMPLE STATISTICS

IC	Means			
	IP	IP_SE	SP	SP_SE
1	261.638	50.100	-18.853	13.326
32.424				

1	Means		
	IC_SE	SC	SC_SE
	1.980	-0.177	0.533

IC	Covariances			
	IP	IP_SE	SP	SP_SE
IP	2447.066			
IP_SE	-5.512	249.980		
SP	-111.979	6.288	37.949	
SP_SE	-10.041	20.350	1.077	2.222
IC	86.443	-4.148	-2.264	-0.851
13.887				
IC_SE	-0.963	1.541	0.066	0.169
-0.122				
SC	12.660	-1.330	-0.176	-0.143
1.144				
SC_SE	-0.262	0.874	0.036	0.086
-0.036				

1	Covariances		
	IC_SE	SC	SC_SE

IC_SE	0.026		
SC	-0.014	0.468	
SC_SE	0.008	-0.007	0.004

	Correlations			
	IP	IP_SE	SP	SP_SE
IC				
IP	1.000			
IP_SE	-0.007	1.000		
SP	-0.367	0.065	1.000	
SP_SE	-0.136	0.863	0.117	1.000
IC	0.469	-0.070	-0.099	-0.153
1.000				
IC_SE	-0.120	0.602	0.067	0.701
-0.203				
SC	0.374	-0.123	-0.042	-0.140
0.449				
SC_SE	-0.084	0.881	0.093	0.914
-0.155				

	Correlations		
	IC_SE	SC	SC_SE
IC_SE	1.000		
SC	-0.128	1.000	
SC_SE	0.832	-0.167	1.000

#### PLOT INFORMATION

The following plots are available:

- Histograms of sample values
- Scatterplots (sample values, estimated factor scores)
- Latent variable distribution plots

#### SAVEDATA INFORMATION

Save file  
EAS\_P\_FreeRecall\_Slopes\_f\_pekavg

Order and format of variables

P1                    F10.3

P2	F10.3
P3	F10.3
P4	F10.3
C1	F10.3
C2	F10.3
C3	F10.3
C4	F10.3
HEIGHT	F10.3
BAGE	F10.3
EDUC	F10.3
DIAB	F10.3
SMOKHIST	F10.3
CARDIO	F10.3
TIME1	F10.3
TIME2	F10.3
TIME3	F10.3
TIME4	F10.3
IP	F10.3
IP_SE	F10.3
SP	F10.3
SP_SE	F10.3
IC	F10.3
IC_SE	F10.3
SC	F10.3
SC_SE	F10.3

Save file format  
26F10.3

Save file record length 10000

Beginning Time: 08:18:44  
Ending Time: 08:18:50  
Elapsed Time: 00:00:06

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