

Mplus Syntax for Final Latent Change Score Models

MODEL:

!!CRP

!truescores

x1 by CRPlog1@1;

x2 by CRPlog2@1;

x3 by CRPlog3@1;

[x1*]; x1;

[x2-x3@0];

x2-x3@0;

[CRPlog1-CRPlog3@0];

CRPlog1-CRPlog3 (s1);

!autoregressions

x2 on x1@1;

x3 on x2@1;

!change scores

xd2 by x2@1;

xd3 by x3@1;

[xd2-xd3@0];

xd2-xd3@0;

xd2 WITH xd3@0; !change scores not allowed to covary to prevent convergence issues

!proportional change

xd2 on x1;! (b);

xd3 on x2;! (b);

!! regressions

!lifetime discrimination predicting baseline CRP

x1 ON EODSITBASE

AGE DIAGYRS RELATE

EDU_LEV INCPOV_AVG INSURE WORKSTAT

BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT

SLAQ BILD;

! Y1 discrimination predicting CRP change scores from Baseline to Y1

xd2 on Y1EODSIT (a) !constrain estimates across Y1 and Y2

EODSITBASE

AGE DIAGYRS RELATE

EDU_LEV INCPOV_AVG INSURE WORKSTAT

BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT
SLAQ BILD;

! Y2 discrimination predicting CRP change scores from Y1 to Y2
xd3 on Y2EODSIT (a) !constrain estimates across Y1 and Y2

Y1EODSIT
EODSITBASE
AGE DIAGYRS RELATE
EDU_LEV INCPOV_AVG INSURE WORKSTAT
BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT
SLAQ BILD;

!discrimination autoregressions

Y1EODSIT on EODSITBASE
AGE DIAGYRS RELATE
EDU_LEV INCPOV_AVG INSURE WORKSTAT
BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT
SLAQ BILD;

Y2EODSIT on Y1EODSIT

AGE DIAGYRS RELATE
EDU_LEV INCPOV_AVG INSURE WORKSTAT
BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT
SLAQ BILD;

!make covariates endogenous for FIML

EODSITBASE Y1EODSIT Y2SIT
AGE DIAGYRS RELATE
EDU_LEV INCPOV_AVG INSURE WORKSTAT
BMI STEROID HYDROXY IMMUNO SMOKE_CURRENT
SLAQ BILD;