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/*
STATA CODE FOR THE MANUSCRIPT No. HEA-2016-3804
"INTERGENERATIONAL TRANSMISSION OF SOCIOECONOMIC POSITION AND
IDEAL CARDIAC HEALTH FACTORS: 32-YEAR FOLLOW-UP STUDY"

Savelieva K. et al, REVISION FOR HEALTH PSYCHOLOGY, 29.7.2016

PART I: PREPARATORY ANALYSES */

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and
Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta"

//PREPARE POSITIVE SEP-SCORE IN CHILDHOOD/ADOLESCENCE (1980)

//1. PARENTAL SEP-SCORE

//One point per presence of each of the following:
//Family upper white-collar occupation              =1p.
//Family high educational level (academic)          =1p.
//High family income (highest 25%)                  =1p.
//Both parents currently having job                 =1p.
//(no unemployment/retirement/long-term sick-leave)
//ALTOGETHER                                  4 points (maximum)
//-----------------------------------------------------------------

*EDUCATION*
recode akoulv80 (0/8=1)  (9/12=2) (13/28=3) (99=.), gen (
akta80_3u)
recode ikoulv80 (0/8=1)  (9/12=2) (13/28=3) (99=.), gen (
ikta80_3u)
gen perkou80ux=999
replace perkou80ux =. if (akta80_3u==.) & (ikta80_3u==.)
replace perkou80ux=akta80_3u if (akta80_3u > ikta80_3u)
replace perkou80ux=ikta80_3u if (ikta80_3u > akta80_3u)
replace perkou80ux=ikta80_3u if (ikta80_3u == akta80_3u)
replace perkou80ux=akta80_3u if (akta80_3u >0 & ikta80_3u==.)
replace perkou80ux=ikta80_3u if (ikta80_3u >0 & akta80_3u==.)
recode perkou80ux (1/2=0) (3=1) (9=.), gen (koupos80)
label variable koupos80 "Family high educational level 1980"
//education: 0=primary or secondary, 1=academic

*OCCUPATION*
recode aastat80 (30/39=4)  (40/49=3) (50/59=2) (10/29=1) (99= .),
 gen (aastat80_4)
recode iastat80 (30/39=4)  (40/49=3) (50/59=2) (10/29=1) (99= .),
 gen (iastat80_4)
gen perham80ux=999
replace perham80ux =. if (aastat80_4==.) & (iastat80_4==.)
replace perham80ux=aastat80_4 if (aastat80_4 > iastat80_4)
replace perham80ux=iastat80_4 if (iastat80_4 > aastat80_4)
replace perham80ux=iastat80_4 if (iastat80_4 == aastat80_4)
```

```
replace perham80ux=aastat80_4 if (aastat80_4 >0 & iastat80_4==.)
replace perham80ux=iastat80_4 if (iastat80_4 >0 & aastat80_4==.)
recode perham80ux (1=0) (2=1) (3=2) (4=3)
//lower manual=0, manual=1, lower nonmanual=2, higher nonmanual=3

recode perham80ux (0=1) if perkou80ux==1
recode perham80ux (0=2) if perkou80ux==2
recode perham80ux (0=3) if perkou80ux==3
recode perham80ux (0=2) if perkou80ux==.
recode perham80ux (1/2=0) (3=1), gen (ampos80)
label variable ampos80 "Family upper white-collar occupation"
//occupation: 0=manual/lower nonmanual, 1=higher nonmanual (either a parent)

*INCOME*
recode tulot80 (1/3=1)  (4/6=2) (7/8=3) (99=.), gen (tulot80ux)
recode tulot80ux (1/2=0) (3=1), gen(tulopos80)
label variable tulopos80 "High family income (highest 25%)"
//0=low/average 1=highest 25%

*OCCUPATIONAL STABILITY*

recode atyoti80 (3 4 5 6 7 =0) (1 2=1) (9=.), gen(atyottpos80)
recode ityoti80 (3 4 5 6 7 =0) (1 2=1) (9=.), gen(ityottpos80)
gen tyottpos80 = .
replace tyottpos80 = 1 if (atyottpos80==1) & (ityottpos80==1)
replace tyottpos80 = . if (atyottpos80==.) & (ityottpos80==.)
replace tyottpos80=0 if (atyottpos80==0) | (ityottpos80==0)
label variable tyottpos80 "Both parents currently having job"

**SUMMARY SCORE**
gen posit_ses80=(ampos80+tulopos80+koupos80+tyottpos80)
label variable posit_ses80 "Positive SEP score 1980"
*****************************************************************

**PREPARE POSITIVE SEP-SCORE IN ADULTHOOD (2007)

//PARTICIPANTS SEP-SCORE

//One point per presence of each of the following:
//Upper white-collar occupation                    =1p.
//High educational level (academic)                =1p.
//High income (highest 25%)                        =1p.
//Participant currently having job                 =1p.
//(no unemployment/retirement/long-term sick-leave)
//ALTOGETHER                                  4 points (maximum)
//-----------------------------------------------------------------

*EDUCATION*
recode opinvv07 (0/8=1)  (9/12=2) (13/34=3) (99=.), gen (opinvv07_3)
recode opinvv07_3 (1/2=0) (3=1) (9=.), gen (edupos07)
```

```
label variable edupos07 "High educational level (academic)"
//education:0=primary or secondary, 1=academic

*OCCUPATION*
recode ses07 (1/2=0) (3=1), gen (occuppos07)
label variable occuppos07 "Upper white-collar occupation"
//occupation: 0=manual/lower non-manual, 1=higher non-manual

*INCOME*
recode brutto07 (1/2=1)  (3/4=2) (5/8=3) (99=.), gen (brutto07_3)
label variable brutto07_3 "Family income: 1=lowest25%, 2=middle50%, 3=highest25%"
recode brutto07_3 (1/2=0) (3=1), gen(incomepos07)
label variable incomepos07 "High income (highest 25%)"
//income: 0=low/average 1=highest 25%

*OCCUPATIONAL STABILITY*
recode toimi07 (3 4 5 6=0) (1 2=1) (9=.) , gen(employpos07)
label variable employpos07 "Participant currently having job"
//employment: 0=unemploymed/retired/long-term sick-leave, 1=employed

**SUMMARY SCORE**
gen posit_ses07=(occuppos07+edupos07+incomepos07+employpos07)
label variable posit_ses07 "Positive SEP score 2007"
*****************************************************************
*

**PREPARE POSITIVE SEP-SCORE IN ADULTHOOD (2012)

merge 1:1 tno80 using ses_2011

//PARTICIPANTS SEP-SCORE

//One point per presence of each of the following:
//Upper white-collar occupation                    =1p.
//High educational level (academic)                =1p.
//High income (highest 25%)                        =1p.
//Participant currently having job                 =1p.
//(no unemployment/retirement/long-term sick-leave)
//ALTOGETHER                                  4 points (maximum)
//-------------------------------------------------------------

*EDUCATION*
recode opinvv11 (0/8=1)  (9/12=2) (13/34=3) (99=.), gen (opinvv11_3)
recode opinvv11_3 (1/2=0) (3=1) (9=.), gen (edupos11)
label variable edupos11 "High educational level (academic)"
//education:0=primary or secondary, 1=academic

*OCCUPATION*
recode sesamm11 (1/2=0) (3=1), gen (occuppos11)
```

```
label variable occuppos11 "Upper white-collar occupation"
//occupation: 0=manual/lower non-manual, 1=higher non-manual

*INCOME*
recode brutto11 (1/4=1)  (5/8=2) (9/13=3) (99=.), gen (brutto11_3
)
label variable brutto11_3 "Family income: 1=lowest25%,
2=middle50%, 3=highest25%"
recode brutto11_3 (1/2=0) (3=1), gen(incomepos11)
label variable incomepos11 "High income (highest 25%)"
//income: 0=low/average 1=highest 25%

*OCCUPATIONAL STABILITY*
recode toimi11 (3 4 5 6=0) (1 2=1) (9=.) , gen(employpos11)
label variable employpos11 "Participant currently having job"
//employment: 0=unemploymed/retired/long-term sick-leave,
1=employed

**SUMMARY SCORE**
gen posit_ses11=(occuppos11+edupos11+incomepos11+employpos11)
label variable posit_ses11 "Positive SEP score 2012"
*****************************************************************
***

//PREPARE IDEAL CARDIOVASCULAR HEALTH INDEX IN 2012//

***ideal cardiovascular health factors:
*plasma glucose    <5.6 mmol/L       = 1 p.
*total cholesterol <5.17 mmol/L      = 1 p.
*blood pressure    <120/<80 mm Hg    = 1 p.

***ideal cardiovascular health behaviors:
*body mass index   <25               = 1 p.
*nonsmoker                           = 1 p.
*physical activity at a goal level   = 1 p.
*ideal diet                          = 1 p.

*ALTOGETHER                  7 points (maximum)
//-------------------------------------------------------

//Ideal cardiovascular health factors//
*Making positive glucose level variable*
gen posit_gluk11 = .
replace posit_gluk11 = 1 if (gluk111 < 5.6)
replace posit_gluk11 = 0 if (gluk111 == 5.6)
replace posit_gluk11 = 0 if (gluk111 > 5.6)
replace posit_gluk11 = . if (gluk111 == .)

*Making positive total cholesterol level variable*
gen posit_kol11 = .
replace posit_kol11 = 1 if (totkol11 < 5.17)
replace posit_kol11 = 1 if (totkol11 == 5.17)
```

```
replace posit_kol11 = 0 if (totkol11 > 5.17)
replace posit_kol11 = . if (totkol11 == .)

*Making positive blood pressure variable*
gen posit_syst11 = .
replace posit_syst11 = 1 if (syst11 < 120)
replace posit_syst11 = 0 if (syst11 == 120)
replace posit_syst11 = 0 if (syst11 > 120)
replace posit_syst11 = . if (syst11 == .)

gen posit_dkv111 = .
replace posit_dkv111 = 1 if (dkv11 < 80)
replace posit_dkv111 = 0 if (dkv11 == 80)
replace posit_dkv111 = 0 if (dkv11 > 80)
replace posit_dkv111 = . if (dkv11 == .)

gen posit_bloodpres11 = .
replace posit_bloodpres11 = 1 if (posit_syst11 == 1) & (posit_dkv11 == 1)
replace posit_bloodpres11 = 0 if (posit_syst11 == 1) & (posit_dkv11 == 0)
replace posit_bloodpres11 = 1 if (posit_syst11 == 1) & (posit_dkv11 == .)
replace posit_bloodpres11 = 0 if (posit_syst11 == 0) & (posit_dkv11 == 1)
replace posit_bloodpres11 = 1 if (posit_syst11 == .) & (posit_dkv11 == 1)
replace posit_bloodpres11 = 0 if (posit_syst11 == 0) & (posit_dkv11 == 0)
replace posit_bloodpres11 = 0 if (posit_syst11 == .) & (posit_dkv11 == 0)
replace posit_bloodpres11 = 0 if (posit_syst11 == 0) & (posit_dkv11 == .)
replace posit_bloodpres11 = . if (posit_syst11 == .) & (posit_dkv11 == .)

//Ideal cardiovascular health behaviors//
*Making positive BMI*
gen posit_bmi11 = .
replace posit_bmi11 = 1 if (bmi11 < 25)
replace posit_bmi11 = 0 if (bmi11 == 25)
replace posit_bmi11 = 0 if (bmi11 > 25)
replace posit_bmi11 = . if (bmi11 == .)

*Making non-smoking variable*
recode tupnyk11 (1/4=0) (5/6=1), gen (nonsmoke11)
label variable nonsmoke11 "Non-smoker or quit smoke"

*Making physical activity variable
rename liikunta11 posit_physactiv11
label variable posit_physactiv11 "Physical activity at goal level"
```

```
*Making ideal diet variable*
rename DIETPOINT13 posit_diet13
label variable posit_diet13 "Ideal diet"

//CUMULATIVE SCORE FOR AHA IDEAL HEALTH INDEX 2012
gen idealcvh11=(posit_gluk11+posit_kol11+posit_bloodpres11+posit_bmi11+nonsmoke11+posit_physactiv11+posit_diet13)
label variable idealcvh11 "Ideal cardiovascular health index in 2012"

**FOR IDEAL CARDIOVASCULAR HEALTH 2007 USE THE SAME VARIABLES AS DR. PULKKI-RABACK FOR HER CIRCULATION PAPER (2015):

merge 1:1 tno80 using ideal_health_index_2007
*********************************************

//Test-retest realibility of ideal CVH index and SEP score:

sem (idealcvh07 -> idealcvh11, ), nocapslatent
estat gof, stats(all)       //Goodness of fit

sem (posit_ses07 -> posit_ses11, ), nocapslatent
estat gof, stats(all)       //Goodness of fit

gen idealcvhhigh07 = .
replace idealcvhhigh07 = 1 if (idealcvh07==6) | (idealcvh07==7)
replace idealcvhhigh07 = 0 if (idealcvh07<6)
replace idealcvhhigh07 = . if (idealcvh07==.)

gen idealcvhhigh11 = .
replace idealcvhhigh11 = 1 if (idealcvh11==6) | (idealcvh11==7)
replace idealcvhhigh11 = 0 if (idealcvh11<6)
replace idealcvhhigh11 = . if (idealcvh11==.)

logistic idealcvhhigh11 idealcvhhigh07
*****************************************************************

//PREPARE DATA FOR PARTICIPANTS' CHRONIC CONDITIONS IN 1980 AND 2001

use "/Users/katerina/Desktop/revision to Health Psychology/chronic_condition_1980-2001.dta"

*** Participants' chronic conditions in 1980
** use syd80, sok80, and muus180
** for syd80, sok80, and muus180m: 1 = no, 2 = yes

gen muus180m = .
replace muus180m = 1 if (muus180 == 99)
replace muus180m = 2 if (muus180 < 98)
replace muus180m = 2 if (muus180 == 98)
```

```
replace muus180m = . if (muus180 == .)

gen chcon80 = .
replace chcon80 = 0 if (syd80 == 1|sok80 == 1|muus180m == 1)
replace chcon80 = 1 if (syd80 == 2|sok80 == 2|muus180m == 2)
replace chcon80 = . if (syd80 == .|sok80 == .|muus180m == .)
label variable chcon80 "Participants' chronic condition in 1980"
* for chcon80: 0 = no, 1 = yes

*** Participants' chronic conditions in 2001
** use psai101 - "long-term illness diagnosed by a doctor"

describe
encode psai101, generate (psai101m)

gen psai101new = .
replace psai101new = 0 if (psai101m! = .)
*one point was assigned to those participants who had some long-term diagnosed illness (done manually)

rename psai101new chcon01
label variable chcon01 "Participants' chronic condition in 2001"

merge 1:1 tno80 using chronic_condition_1980-2001

// Generate participants' age variables in 1980, 2012
gen ika80_u = 80 - vuosi
gen ika07_u = ika80_u + 27
gen ika12_u = ika80_u + 32
*****************************************************************************

//CHANGE SCORE

**CONTINUOUS change score

gen change = posit_ses07 - posit_ses80
replace change = . if (posit_ses80 == . & posit_ses07 == .)

**CATEGORICAL change score:

recode change (min/-1=1) (0=0) (1/max=2), gen (cat_change)

save "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta", replace
*************************************************************
*******************END OF PART I*****************************
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*PART II: MAIN ANALYSES

```

```
clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta"

// Preparing data for analyses:

*Drop those with Type I diabetes in childhood (n = 19)
drop if tno80==497|tno80==2010|tno80==2106|tno80==2264|tno80==2526 ///
|tno80==2725|tno80==3297|tno80==3384|tno80==3408|tno80==3467|tno80==3578 ///
|tno80==3761|tno80==4486|tno80==5018|tno80==5033|tno80==6042|tno80==6632 ///
|tno80==6786|tno80==6793

*Select only those with complete data
drop if missing(bmi80)
drop if missing(syst80)
drop if missing(totkol80)
drop if missing(chcon80)
drop if missing(chcon01)
drop if missing(posit_ses80)

drop if missing(posit_ses07)
drop if missing(posit_ses11)
drop if missing(idealcvh07)
drop if missing(idealcvh11)     //n = 697
****************************

// Table 1. Descriptive statistics of the main variables (n = 697)

sum ika80_u ika12_u posit_ses80 posit_ses07 posit_ses11 idealcvh07 idealcvh11
tab1 suku posit_ses80 posit_ses07 posit_ses11 idealcvh07 idealcvh11 glukoosi07 kolest07 verenpaine07 painoindeksi07 tupakka07 liikunta07 dieettipiste07 posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13
****************************

// Table 2. linear regression models of childhood socioeconomic position (SEP) predicting ideal cardiovascular health score in adulthood (n = 697)

global covariates "suku vuosi bmi80 syst80 totkol80 chcon80 chcon01"
display "$covariates"

*Cases as categorical*
//Model 1: Age+gender+childhood biomarkers-adjusted:
reg idealcvh11 B0.posit_ses80 $covariates, level (95)
```

```
reg idealcvh11 B0.posit_ses80 $covariates, beta

//Model 2: + adjusted to adult's SEP in 2007
reg idealcvh11 B0.posit_ses80 $covariates posit_ses07, level (95)
reg idealcvh11 B0.posit_ses80 $covariates posit_ses07, beta

*Cases as continuous*
//Model 1: Age+gender+childhood biomarkers-adjusted:
reg idealcvh11 posit_ses80 $covariates, level (95)
reg idealcvh11 posit_ses80 $covariates, beta
//Model 2: + adjusted to adult's SEP in 2007
reg idealcvh11 posit_ses80 $covariates posit_ses07, level (95)
reg idealcvh11 posit_ses80 $covariates posit_ses07, beta
****************************

// FIGURE 1. Path model

**Unadjusted model:
sem (posit_ses80 -> posit_ses07, ) (posit_ses80 -> idealcvh07, )
(posit_ses07 -> posit_ses11, ) (posit_ses07 -> idealcvh11, ) ///
(idealcvh07 -> posit_ses11, ) (idealcvh07 -> idealcvh11, ), ///
cov(e.posit_ses07*e.idealcvh07 e.posit_ses11*e.idealcvh11)
nocapslatent

estat gof, stats(all)       //Goodness of fit

**Adjusted model to childhood cardiovascular risk factors and to
chronic condition (from 1980 and 2001)

*first regress all covariates on the main variables, then save
residuals and use them in the model
regress posit_ses80 $covariates, b
predict r_posit_ses80, residuals

regress posit_ses07 $covariates, b
predict r_posit_ses07, residuals

regress posit_ses11 $covariates, b
predict r_posit_ses11, residuals

regress idealcvh07 $covariates, b
predict r_idealcvh07, residuals

regress idealcvh11 $covariates, b
predict r_idealcvh11, residuals

*Adjusted model itself (n = 697):
sem (r_posit_ses80 -> r_posit_ses07, ) (r_posit_ses80 ->
r_idealcvh07, ) (r_posit_ses07 -> r_posit_ses11, ) (r_posit_ses07
 -> r_idealcvh11, ) (r_idealcvh07 -> r_posit_ses11, ) (
r_idealcvh07 -> r_idealcvh11, ), ///
cov(e.r_posit_ses07*e.r_idealcvh07 e.r_posit_ses11*e.r_idealcvh11
```

```
) nocapslatent

sem, standardized
estat gof, stats(all)       //Goodness of fit

*checking the mediation effect of adult SEP (2007) on the association between childhood SEP (1980) and adult ideal cardiovascular health (2012)
*PARENTAL SEP_1980 -- ADULT SEP_2007 -- IDEAL HEALTH INDEX 2012*

sgmediation  r_idealcvh11, mv(r_posit_ses07) iv(r_posit_ses80)
set seed 29390
bootstrap r(ind_eff) r(dir_eff) r(tot_eff), reps (1000): sgmediation r_idealcvh11, iv(r_posit_ses80) mv (r_posit_ses07)
estat bootstrap, percentile bc
***************************

// FIGURE 2. Mean levels and confidence intervals of the ideal cardiovascular health index in adulthood according to the different socioeconomic mobility group (n = 697)

*unadjusted continuous change score:
reg idealcvh11 change
margins, at(change=(-3 -2 -1 0 1 2 3 4)) atmeans
marginsplot

*continuous change score adjusted for parental SES:
reg idealcvh11 change posit_ses80
margins, at(change=(-3 -2 -1 0 1 2 3 4)) atmeans
marginsplot

*additionally adjusted to all covariates:
reg idealcvh11 change posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
margins, at(change=(-3 -2 -1 0 1 2 3 4)) atmeans
marginsplot

**CATEGORICAL change score:

*recode change (min/-1=1) (0=0) (1/max=2), gen (cat_change)

*unadjusted categorical change score:
reg idealcvh11 B2.cat_change
margins, at(cat_change=(0 1 2)) atmeans
marginsplot

*categorical change score adjusted for parental SES:
reg idealcvh11 B2.cat_change posit_ses80
margins, at(cat_change=(0 1 2)) atmeans
marginsplot, recast(bar)

*additionally adjusted to all covariates:
```

```
reg idealcvh11 B0.cat_change posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, beta
margins, at(cat_change=(0 1 2)) atmeans
marginsplot, recast(bar)

*with rescaled y-axis (0-7) (to be presented in the ms):
reg idealcvh11 B2.cat_change posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
margins, at(cat_change=(0 1 2)) atmeans
marginsplot, recast(bar) ylabel (0/7)

*checking interactions between parental SEP and social mobility (to test whether there is any differences in the effect of parental SEP):
reg idealcvh11 B0.cat_change##c.posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01

*****************************************************************
*******************END OF PART II****************************
*****************************************************************

*PART III: SUPPLEMENTARY ANALYSES

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta"

//SUPPLEMENTARY TABLE 1. Comparison of the included and the excluded participants on baseline data

*Generate two groups: 0 = excluded participants (n=2,899) and 1 = included participants (n=697)
gen selected = 0
replace selected = 1 if posit_ses80!=. & posit_ses07!=. & posit_ses11!=. & idealcvh07!=. & idealcvh11!=. & bmi80!=. & syst80!=. & totkol80!=. & chcon80!=. & chcon01!=.

*Attrition analyses:
tabulate suku selected, chi2
ttest ika80_u, by(selected) welch
ttest ika12_u, by(selected) welch

ttest posit_ses80, by(selected) welch
tabulate ampos80 selected, chi2
tabulate koupos80 selected, chi2
tabulate tulopos80 selected, chi2
tabulate tyottpos80 selected, chi2

ttest bmi80, by(selected) welch
ttest syst80, by(selected) welch
ttest totkol80, by(selected) welch
tabulate chcon80 selected, chi2
```

```
*************************************

// SUPPLEMENTARY TABLE 2. Descriptive statistics of the socioeconomic position (SEP) components and socioeconomic mobility variables (n=697)

drop if missing(posit_ses07)
drop if missing(posit_ses11)
drop if missing(idealcvh07)
drop if missing(idealcvh11)     //n = 697

tab1 ampos80 koupos80 tulopos80 tyottpos80 occuppos07 edupos07 incomepos07 employpos07
sum change
tab cat_change
*************************************
*************************************

// MULTIPLE IMPUTATION

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta"

sum posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13
tab1 posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13

gen selected1 = 0
replace selected1 = 1 if posit_gluk11!=. | posit_kol11!=. | posit_bloodpres11!=. | posit_bmi11!=. | nonsmoke11!=. | posit_physactiv11!=. |posit_diet13!=.

drop if tno80==497|tno80==2010|tno80==2106|tno80==2264|tno80==2526 ///
|tno80==2725|tno80==3297|tno80==3384|tno80==3408|tno80==3467|tno80==3578 ///
|tno80==3761|tno80==4486|tno80==5018|tno80==5033|tno80==6042|tno80==6632 ///
|tno80==6786|tno80==6793

drop if selected1==0

keep tno80 suku vuosi bmi80 syst80 dkv80 totkol80 chcon80 chcon01 ///
ampos80 tulopos80 koupos80 tyottpos80 ///
occuppos07 edupos07 incomepos07 employpos07 ///
occuppos11 edupos11 incomepos11 employpos11 ///
glukoosi07 kolest07 verenpaine07 painoindeksi07 tupakka07 liikunta07 dieettipiste07 ///
posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11
```

```
 posit_physactiv11 posit_diet13

*starting multiple imputation

mi set flong //MI data style
mi misstable sum, all //
consider the amount of variables missing
mi register imputed ///
register those variables that should be imputed
bmi80 syst80 totkol80 chcon80 chcon01 ///
covariates
ampos80 tulopos80 koupos80 tyottpos80 ///                    SEP
in 1980
occuppos07 edupos07 incomepos07 employpos07 ///              SEP
in 2007
occuppos11 edupos11 incomepos11 employpos11 ///              SEP
in 2012
glukoosi07 kolest07 verenpaine07  ///
ideal health factors in 2007
painoindeksi07 tupakka07 liikunta07 dieettipiste07 ///
ideal health behaviors in 2007
posit_gluk11 posit_kol11 posit_bloodpres11  ///
ideal health factors in 2012
posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13 //
ideal health behaviors in 2012
mi register regular tno80 suku vuosi dkv80 //
register those variables that won't be imputed
set seed 29390

global covariates "suku vuosi bmi80 dkv80 syst80 totkol80
chcon80 chcon01"
global SEP1980 "ampos80 tulopos80 koupos80 tyottpos80"
global SEP2007 "edupos07 occuppos07 incomepos07 employpos07"
global SEP2012 "edupos11 occuppos11 incomepos11 employpos11"
global icvh2007 "glukoosi07 kolest07 verenpaine07 painoindeksi07
tupakka07 liikunta07 dieettipiste07"
global icvh2012 "posit_gluk11 posit_kol11 posit_bloodpres11
posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13"

display "$covariates" "$SEP1980" "$SEP2007" "$SEP2012"
"$icvh2007" "$icvh2012"

mi impute chained ///
(reg, include(suku vuosi ampos80 tulopos80 koupos80 tyottpos80
dkv80 syst80 totkol80 chcon80 chcon01)) bmi80 /// covariates
(reg, include(suku vuosi ampos80 tulopos80 koupos80 tyottpos80
dkv80 bmi80 totkol80 chcon80 chcon01)) syst80  ///
(reg, include(suku vuosi ampos80 tulopos80 koupos80 tyottpos80
dkv80 bmi80 syst80 chcon80 chcon01)) totkol80 ///
(logit, include(suku vuosi ampos80 tulopos80 koupos80 tyottpos80
dkv80 bmi80 syst80 totkol80 chcon01)) chcon80 ///
(logit, include(suku vuosi ampos80 tulopos80 koupos80 tyottpos80
```

```
dkv80 bmi80 syst80 totkol80 chcon80)) chcon01 ///
(logit, include($covariates tulopos80 koupos80 tyottpos80))
ampos80 /// SEP in 1980
(logit, include($covariates ampos80 koupos80 tyottpos80))
tulopos80 ///
(logit, include($covariates ampos80 tulopos80 tyottpos80))
koupos80 ///
(logit, include($covariates ampos80 tulopos80 koupos80))
tyottpos80 ///
(logit, include($covariates $SEP1980 edupos07 incomepos07
employpos07 $SEP2012)) occuppos07 /// SEP in 2007
(logit, include($covariates $SEP1980 occuppos07 incomepos07
employpos07 $SEP2012)) edupos07 ///
(logit, include($covariates $SEP1980 edupos07 occuppos07
employpos07 $SEP2012)) incomepos07 ///
(logit, include($covariates $SEP1980 edupos07 occuppos07
incomepos07 $SEP2012)) employpos07 ///
(logit, include($covariates $SEP1980 $SEP2007 edupos11
incomepos11 employpos11)) occuppos11 /// SEP in 2012
(logit, include($covariates $SEP1980 $SEP2007 occuppos11
incomepos11 employpos11)) edupos11 ///
(logit, include($covariates $SEP1980 $SEP2007 occuppos11 edupos11
 employpos11)) incomepos11 ///
(logit, include($covariates $SEP1980 $SEP2007 occuppos11 edupos11
 incomepos11)) employpos11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 kolest07
verenpaine07 painoindeksi07 tupakka07 liikunta07 dieettipiste07
$icvh2012)) glukoosi07 /// IDEAL CVH in 2007
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 verenpaine07 painoindeksi07 tupakka07 liikunta07 dieettipiste07
$icvh2012)) kolest07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 kolest07 painoindeksi07 tupakka07 liikunta07 dieettipiste07
$icvh2012)) verenpaine07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 kolest07 verenpaine07 tupakka07 liikunta07 dieettipiste07
$icvh2012)) painoindeksi07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 kolest07 verenpaine07 painoindeksi07 liikunta07 dieettipiste07
$icvh2012)) tupakka07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 kolest07 verenpaine07 painoindeksi07 tupakka07 dieettipiste07
$icvh2012)) liikunta07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 glukoosi07
 kolest07 verenpaine07 painoindeksi07 tupakka07 liikunta07
$icvh2012)) dieettipiste07 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007
posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11
posit_physactiv11 posit_diet13)) posit_gluk11 /// IDEAL CVH in
2012
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007
posit_gluk11 posit_bloodpres11 posit_bmi11 nonsmoke11
```

```
posit_physactiv11 posit_diet13)) posit_kol11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007 posit_gluk11 posit_kol11 posit_bmi11 nonsmoke11 posit_physactiv11 posit_diet13)) posit_bloodpres11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007 posit_gluk11 posit_kol11 posit_bloodpres11 nonsmoke11 posit_physactiv11 posit_diet13)) posit_bmi11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007 posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 posit_physactiv11 posit_diet13)) nonsmoke11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007 posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11 posit_diet13)) posit_physactiv11 ///
(logit, include($covariates $SEP1980 $SEP2007 $SEP2012 $icvh2007 posit_gluk11 posit_kol11 posit_bloodpres11 posit_bmi11 nonsmoke11 posit_physactiv11)) posit_diet13 ///
,augment noimputed noisily force add(50) dots

save MI_SES_Health.dta

***Making summary score in imputed data

** SEP score:
*1980:
mi passive: gen posit_ses80=(ampos80+tulopos80+koupos80+tyottpos80)
*2007:
mi passive: gen posit_ses07=(occuppos07+edupos07+incomepos07+employpos07)
*2012:
mi passive: gen posit_ses11=(occuppos11+edupos11+incomepos11+employpos11)

** ideal cardiovascular health index
*2007:
mi passive: gen idealcvh07=(glukoosi07+kolest07+verenpaine07+painoindeksi07+tupakka07+liikunta07+dieettipiste07)
*2012:
mi passive: gen idealcvh11=(posit_gluk11+posit_kol11+posit_bloodpres11+posit_bmi11+nonsmoke11+posit_physactiv11+posit_diet13)

misum posit_ses80 posit_ses07 posit_ses11 idealcvh07 idealcvh11

save "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/MI_SES_Health.dta", replace
*************************************

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health
```

```
Psychology/MI_SES_Health.dta"

// SUPPLEMENTARY TABLE 3. Linear regression models of child socioeconomic position (SEP) predicting ideal cardiovascular health in adulthood in imputed data (n=2,124)

**Cases as continuous
*Model 1: Age+gender+childhood biomarkers-adjusted:
mibeta idealcvh11 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, level (95),
*Model 2: + adjusted to adult's ses in 2007
mibeta idealcvh11 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 posit_ses07, level (95)

**Cases as categorical
*Model 1: Age+gender+childhood biomarkers-adjusted:
mibeta idealcvh11 B0.posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, level (95)
*Model 2: + adjusted to adult's ses in 2007
mibeta idealcvh11 B0.posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 posit_ses07, level (95)
*************************************

// SUPPLEMENTARY TABLE 4. The mediation effect of adulthood socioeconomic position (2007) on the association between childhood socioeconomic position (1980) and specific ideal cardiovascular health metrics in adulthood (2012) (n = 697)

**adjusted for age, sex, childhood cardiovascular risk factors, and chronic conditions

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/SES_Health.dta"

*Drop those with Type I diabetes in childhood (n = 19)
drop if tno80==497|tno80==2010|tno80==2106|tno80==2264|tno80==2526 ///
|tno80==2725|tno80==3297|tno80==3384|tno80==3408|tno80==3467|tno80==3578 ///
|tno80==3761|tno80==4486|tno80==5018|tno80==5033|tno80==6042|tno80==6632 ///
|tno80==6786|tno80==6793
*Select only those with complete data
drop if missing(bmi80)
drop if missing(syst80)
drop if missing(totkol80)
drop if missing(chcon80)
drop if missing(chcon01)
drop if missing(posit_ses80)
drop if missing(posit_ses07)
drop if missing(posit_ses11)
```

```
drop if missing(idealcvh07)
drop if missing(idealcvh11)     //n = 697

*Ideal level of glucose in 2011 (0=no, 1=yes)
binary_mediation, dv(posit_gluk11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) // mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_gluk11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect, direct, and total effects are significant using bootstrap CI95%

*Ideal level of cholesterol in 2011 (0=no, 1=yes)
binary_mediation, dv(posit_kol11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) // mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_kol11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect, direct, and total effects are significant using bootstrap CI95%

*Ideal level of blood pressure in 2011 (0=no, 1=yes)
binary_mediation, dv(posit_bloodpres11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) // mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_bloodpres11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect, direct, and total effects are significant using bootstrap CI95%

*Ideal level of bmi in 2011 (0=no, 1=yes)
binary_mediation, dv(posit_bmi11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) // mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_bmi11) mv(posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect, direct, and total effects are significant using bootstrap CI95%

*Ideal level of physical activity in 2011 (0=no, 1=yes) **SIGNIFICANT
binary_mediation, dv(posit_physactiv11) mv(posit_ses07) iv(
```

```
posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
 // mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_physactiv11) mv(
posit_ses07) iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80
chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect,
direct, and total effects are significant using bootstrap CI95%

*Ideal diet in 2011 (0=no, 1=yes)
binary_mediation, dv(posit_diet13) mv(posit_ses07) iv(posit_ses80
) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) //
mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(posit_diet13) mv(posit_ses07)
iv(posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80
chcon01)
estat bootstrap, percentile bc // checking whether indirect,
direct, and total effects are significant using bootstrap CI95%

*Nonsmoking in 2011 (0=no, 1=yes) **SIGNIFICANT
binary_mediation, dv(nonsmoke11) mv(posit_ses07) iv(posit_ses80)
cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) //
mediation analysis
set seed 29390
quietly bootstrap r(indir_1) r(tot_ind) r(dir_eff) r(tot_eff), ///
reps (1000): binary_mediation, dv(nonsmoke11) mv(posit_ses07) iv(
posit_ses80) cv(suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
estat bootstrap, percentile bc // checking whether indirect,
direct, and total effects are significant using bootstrap CI95%
*****************

*checking the mediation effect of adult SEP (2007) on the
association between childhood SEP (1980) and adult ideal
cardiovascular health (2012)
*PARENTAL SEP_1980 -- ADULT SEP_2007 -- IDEAL HEALTH INDEX 2012*

sgmediation  r_idealcvh11, mv(r_posit_ses07) iv(r_posit_ses80)
set seed 29390
bootstrap r(ind_eff) r(dir_eff) r(tot_eff), reps (1000):
sgmediation r_idealcvh11, iv(r_posit_ses80) mv (r_posit_ses07)
estat bootstrap, percentile bc
*****************

*taking the effect of nonsmoking and then physical activity away:
gen idealcvh11_nosmoke=idealcvh11-nonsmoke11
gen idealcvh11_nosmoke_nopa=idealcvh11-nonsmoke11-
posit_physactiv11

reg idealcvh11 posit_ses80 suku vuosi bmi80 syst80 totkol80
```

```
chcon80 chcon01
reg idealcvh11 posit_ses80 posit_ses07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
di (0.159-0.107)/0.159
reg idealcvh11_nosmoke posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
reg idealcvh11_nosmoke posit_ses80 posit_ses07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
di (0.145-0.111)/0.145
reg idealcvh11_nosmoke_nopa posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
reg idealcvh11_nosmoke_nopa posit_ses80 posit_ses07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
di (0.131-0.111)/0.131


global covariates "suku vuosi bmi80 syst80 totkol80 chcon80 chcon01"
display "$covariates"

*first regress all covariates on the main variables, then save residuals and use them in the model
regress posit_ses80 $covariates, b
predict r_posit_ses80, residuals

regress posit_ses07 $covariates, b
predict r_posit_ses07, residuals

regress posit_ses11 $covariates, b
predict r_posit_ses11, residuals

regress idealcvh07 $covariates, b
predict r_idealcvh07, residuals

regress idealcvh11 $covariates, b
predict r_idealcvh11, residuals

regress idealcvh11_nosmoke_nopa $covariates, b
predict r_idealcvh11_nosmoke_nopa, residuals

sgmediation  r_idealcvh11_nosmoke_nopa, mv(r_posit_ses07) iv(r_posit_ses80)
bootstrap r(ind_eff) r(dir_eff) r(tot_eff), reps (1000): sgmediation r_idealcvh11_nosmoke_nopa, iv(r_posit_ses80) mv (r_posit_ses07)
estat bootstrap, percentile bc
*****************************************************

clear
use "/Users/katerina/Documents/WORK_UH/M3_SES and Health/DATA:ANALYSES/revision to Health Psychology/MI_SES_Health.dta"
```

```
// SUPPLEMENTARY FIGURE 1. Path model in imputed data (n = 2,124)

*First regress all covariates on the main variables and save residuals, then use them in the model

mi xeq: regress posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, b
mi xeq: predict ri_posit_ses80, residuals
pwcorr ri_posit_ses80 posit_ses80
*check whether results are the same in the original data
regress posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 if _mi_m==1, b
predict posit_ses80_1, residuals
pwcorr posit_ses80 posit_ses80_1 if _mi_m==1

mi xeq: regress posit_ses07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, b
mi xeq: predict ri_posit_ses07, residuals
pwcorr ri_posit_ses07 posit_ses07
*check whether results are the same in the original data
regress posit_ses07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 if _mi_m==1, b
predict posit_ses07_1, residuals
pwcorr posit_ses07 posit_ses07_1 if _mi_m==1

mi xeq: regress posit_ses11 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, b
mi xeq: predict ri_posit_ses11, residuals
pwcorr ri_posit_ses11 posit_ses07
*check whether results are the same in the original data
regress posit_ses11 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 if _mi_m==1, b
predict posit_ses11_1, residuals
pwcorr posit_ses11 posit_ses11_1 if _mi_m==1

mi xeq: regress idealcvh07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, b
mi xeq: predict ri_idealcvh07, residuals
pwcorr ri_idealcvh07 idealcvh07
*check whether results are the same in the original data
regress idealcvh07 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01 if _mi_m==1, b
predict idealcvh07_1, residuals
pwcorr idealcvh07 idealcvh07_1 if _mi_m==1

mi xeq: regress idealcvh11 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01, b
mi xeq: predict ri_idealcvh11, residuals
pwcorr ri_idealcvh11 idealcvh11
*check whether results are the same in the original data
regress idealcvh11 suku vuosi bmi80 syst80 totkol80 chcon80
```

```
chcon01 if _mi_m==1, b
predict idealcvh11_1, residuals
pwcorr idealcvh11 idealcvh11_1 if _mi_m==1

*Adjusted model itself:
sem (ri_posit_ses80 -> ri_posit_ses07, ) (ri_posit_ses80 -> ri_idealcvh07, ) (ri_posit_ses07 -> ri_posit_ses11, ) (ri_posit_ses07 -> ri_idealcvh11, ) (ri_idealcvh07 -> ri_posit_ses11, ) (ri_idealcvh07 -> ri_idealcvh11, ) if _mi_m==1, ///
cov(e.ri_posit_ses07*e.ri_idealcvh07 e.ri_posit_ses11*e.ri_idealcvh11) nocapslatent

sem, standardized
estat gof, stats(all)       //Goodness of fit
****************************

*checking the mediation effect of adult SEP (2007) on the association between childhood SEP (1980) and adult ideal cardiovascular health (2012) in imputed data (n = 2,124)
*PARENTAL SEP_1980 -- ADULT SEP_2007 -- IDEAL HEALTH INDEX 2012*

mi estimate, cmdok: sureg  (posit_ses07 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) (idealcvh11 posit_ses07 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01)
matrix b = e(b_mi)
matrix V = e(V_mi)
quietly sureg (posit_ses07 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) (idealcvh11 posit_ses07 posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01) if _mi_m == 0
nlcom [posit_ses07]_b[posit_ses80]*[idealcvh11]_b[posit_ses07] //indirect effect
nlcom [posit_ses07]_b[posit_ses80]*[idealcvh11]_b[posit_ses07] + [idealcvh11]_b[posit_ses80] //total effect

di 0.052/0.164  //proportion mediated
*************************************************************

// SUPPLEMENTARY FIGURE 2. Mean levels and confidence intervals of the ideal cardiovascular health index in adulthood according to the different socioeconomic mobility groupd in imputed data (n = 2,124)

*CHANGE SCORE

mi passive: gen change = posit_ses07 - posit_ses80
mi passive: replace change = . if (posit_ses80 == . & posit_ses07 == .)

**continuous change score adjusted for parental SES:
mi estimate: reg idealcvh11 change posit_ses80
*additionally adjusted to all covariates:
```

```
mi estimate: reg idealcvh11 change posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01

*categorical change score:
mi passive: gen cat_change = .
mi passive: replace cat_change = 2 if posit_ses07>posit_ses80 & posit_ses07<. & posit_ses80<.
mi passive: replace cat_change = 1 if posit_ses07<posit_ses80 & posit_ses07<. & posit_ses80<.
mi passive: replace cat_change = 0 if posit_ses07==posit_ses80 & posit_ses07<. & posit_ses80<.

*categorical change score adjusted for parental SES:
mi estimate: reg idealcvh11 B2.cat_change posit_ses80

*additionally adjusted to all covariates:
mi estimate: reg idealcvh11 B2.cat_change posit_ses80 suku vuosi bmi80 syst80 totkol80 chcon80 chcon01
*****************************************************************
*******************END OF PART III***************************
*****************************************************************

*****************************************************************
*******************END OF THE ANALYSES***********************
*****************************************************************
```