NuAge : Seed Report

Date: 2016-11-12

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This report contains a searchable table, followed by publication-ready tables.

# Available models

Study **NUAGE** have contributed the following outcome pairs to the IASLA-2015-Portland model pool: NULL

process\_a

process\_b

n\_models

grip

mmms

6

grip

mmse

6

study\_name

subgroup

model\_type

process\_a

process\_b

n\_models

nuage

female

a

grip

mmms

1

nuage

female

a

grip

mmse

1

nuage

female

aeh

grip

mmms

1

nuage

female

aeh

grip

mmse

1

nuage

female

aehplus

grip

mmms

1

nuage

female

aehplus

grip

mmse

1

study\_name

subgroup

model\_type

process\_a

process\_b

n\_models

nuage

male

a

grip

mmms

1

nuage

male

a

grip

mmse

1

nuage

male

aeh

grip

mmms

1

nuage

male

aeh

grip

mmse

1

nuage

male

aehplus

grip

mmms

1

nuage

male

aehplus

grip

mmse

1

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *grip*; Process (b): *mmms*, *mmse*

process

label

mmms

mmse

mean(sd)

a

Level

59.87 (1.06) <.01

59.86 (1.06) <.01

59.86(0.00)

a

Slope

-2.08 (0.28) <.01

-2.08 (0.28) <.01

-2.08(0.00)

a

Level \* age

-0.95 (0.11) <.01

-0.95 (0.11) <.01

-0.95(0.00)

a

Level \* education

0.02 (0.13) .88

0.02 (0.13) .88

0.02(0.00)

a

Level \* height

-9.32 (7.96) .24

-9.35 (7.95) .24

-9.33(0.02)

a

Level \* smoking

1.10 (1.00) .27

1.10 (1.00) .27

1.10(0.00)

a

Level \* cardio

2.61 (1.26) .04

2.61 (1.26) .04

2.61(0.00)

a

Level \* diabetes

-0.34 (1.86) .86

-0.34 (1.87) .85

-0.34(0.00)

a

Slope \* age

0.02 (0.03) .48

0.02 (0.03) .45

0.02(0.00)

a

Slope \* education

-0.02 (0.03) .55

-0.02 (0.03) .54

-0.02(0.00)

a

Slope \* height

-1.16 (1.98) .56

-1.17 (1.97) .55

-1.16(0.00)

a

Slope \* smoking

0.49 (0.25) .05

0.49 (0.25) .05

0.49(0.00)

a

Slope \* cardio

-0.51 (0.31) .10

-0.50 (0.31) .10

-0.51(0.01)

a

Slope \* diabetes

-0.45 (0.49) .36

-0.43 (0.49) .37

-0.44(0.01)

b

Level

93.92 (0.28) <.01

28.57 (0.09) <.01

---

b

Slope

-0.36 (0.13) <.01

-0.11 (0.05) .03

---

b

Level \* age

-0.22 (0.03) <.01

-0.08 (0.01) <.01

---

b

Level \* education

0.37 (0.03) <.01

0.06 (0.01) <.01

---

b

Level \* height

6.48 (1.99) <.01

-0.00 (0.69) .99

---

b

Level \* smoking

0.20 (0.25) .41

-0.03 (0.09) .75

---

b

Level \* cardio

-0.05 (0.31) .86

-0.14 (0.11) .21

---

b

Level \* diabetes

-0.92 (0.48) .06

-0.09 (0.16) .58

---

b

Slope \* age

-0.06 (0.01) <.01

-0.01 (0.00) .01

---

b

Slope \* education

0.01 (0.01) .71

0.00 (0.01) .71

---

b

Slope \* height

-0.79 (1.08) .47

0.01 (0.38) .98

---

b

Slope \* smoking

0.12 (0.12) .28

0.04 (0.04) .33

---

b

Slope \* cardio

-0.11 (0.15) .47

0.01 (0.06) .86

---

b

Slope \* diabetes

0.01 (0.20) .95

0.03 (0.08) .73

---

a

Var (Level)

176.91 (10.91) <.01

176.92 (10.91) <.01

176.92(0.01)

a

Var (Slope)

2.69 (0.88) <.01

2.69 (0.88) <.01

2.69(0.00)

a

Var (Residual)

37.88 (2.67) <.01

37.87 (2.67) <.01

37.87(0.00)

a

Covar (Level, Slope)

-2.43 (2.04) .23

-2.40 (2.04) .24

-2.42(0.02)

b

Var (Level)

7.74 (0.74) <.01

0.65 (0.19) <.01

---

b

Var (Slope)

0.76 (0.33) .02

0.04 (0.07) .59

---

b

Var (Residual)

8.54 (0.41) <.01

1.64 (0.32) <.01

---

b

Covar (Level, Slope)

2.14 (0.38) <.01

0.14 (0.10) .17

---

ab

Covar (Levels)

1.64 (1.87) .38

0.86 (0.65) .18

---

ab

Covar (Slopes)

0.40 (0.28) .15

0.05 (0.10) .60

---

ab

Covar (Residuals)

0.39 (0.41) .34

-0.02 (0.19) .92

---

Correlation of Levels

0.044

0.0804

0.06(0.03)

Correlation of Slopes

0.277

0.1606

0.22(0.08)

Correlation of Residuals

0.022

-0.0024

0.01(0.02)

N

934

934

934.00(0.00)

occasions

4

4

4.00(0.00)

parameters

NA

NA

---

LL

-21,013

-17,959

-1.948633e+04(2,159)

AIC

42,108

36,001

3.905465e+04(4,319)

BIC

42,307

36,199

3.925307e+04(4,319)

## mmms

Gender = *female*; Process (a) = *grip*; Process (b) = *mmms*

process

label

a

aeh

aehplus

a

Level

60.95 (0.71) <.01

60.54 (0.99) <.01

59.87 (1.06) <.01

a

Slope

-2.05 (0.18) <.01

-2.00 (0.26) <.01

-2.08 (0.28) <.01

a

Level \* age

-0.90 (0.11) <.01

-0.94 (0.11) <.01

-0.95 (0.11) <.01

a

Level \* education

---

0.02 (0.13) .87

0.02 (0.13) .88

a

Level \* height

---

-10.12 (7.98) .20

-9.32 (7.96) .24

a

Level \* smoking

---

---

1.10 (1.00) .27

a

Level \* cardio

---

---

2.61 (1.26) .04

a

Level \* diabetes

---

---

-0.34 (1.86) .86

a

Slope \* age

0.01 (0.03) .73

0.01 (0.03) .76

0.02 (0.03) .48

a

Slope \* education

---

-0.02 (0.04) .61

-0.02 (0.03) .55

a

Slope \* height

---

-0.56 (1.97) .78

-1.16 (1.98) .56

a

Slope \* smoking

---

---

0.49 (0.25) .05

a

Slope \* cardio

---

---

-0.51 (0.31) .10

a

Slope \* diabetes

---

---

-0.45 (0.49) .36

b

Level

95.38 (0.18) <.01

93.88 (0.26) <.01

93.92 (0.28) <.01

b

Slope

-0.27 (0.06) <.01

-0.33 (0.12) .01

-0.36 (0.13) <.01

b

Level \* age

-0.26 (0.03) <.01

-0.22 (0.03) <.01

-0.22 (0.03) <.01

b

Level \* education

---

0.38 (0.03) <.01

0.37 (0.03) <.01

b

Level \* height

---

6.58 (2.00) <.01

6.48 (1.99) <.01

b

Level \* smoking

---

---

0.20 (0.25) .41

b

Level \* cardio

---

---

-0.05 (0.31) .86

b

Level \* diabetes

---

---

-0.92 (0.48) .06

b

Slope \* age

-0.06 (0.01) <.01

-0.06 (0.01) <.01

-0.06 (0.01) <.01

b

Slope \* education

---

0.01 (0.01) .70

0.01 (0.01) .71

b

Slope \* height

---

-0.66 (1.06) .53

-0.79 (1.08) .47

b

Slope \* smoking

---

---

0.12 (0.12) .28

b

Slope \* cardio

---

---

-0.11 (0.15) .47

b

Slope \* diabetes

---

---

0.01 (0.20) .95

a

Var (Level)

179.05 (10.95) <.01

178.22 (10.93) <.01

176.91 (10.91) <.01

a

Var (Slope)

2.82 (0.91) <.01

2.81 (0.91) <.01

2.69 (0.88) <.01

a

Var (Residual)

37.88 (2.67) <.01

37.85 (2.67) <.01

37.88 (2.67) <.01

a

Covar (Level, Slope)

-2.59 (2.06) .21

-2.53 (2.06) .22

-2.43 (2.04) .23

b

Var (Level)

10.13 (0.87) <.01

7.81 (0.74) <.01

7.74 (0.74) <.01

b

Var (Slope)

0.65 (0.31) .04

0.76 (0.33) .02

0.76 (0.33) .02

b

Var (Residual)

8.77 (0.43) <.01

8.54 (0.41) <.01

8.54 (0.41) <.01

b

Covar (Level, Slope)

2.28 (0.39) <.01

2.15 (0.38) <.01

2.14 (0.38) <.01

ab

Covar (Levels)

1.65 (2.00) .41

1.69 (1.87) .36

1.64 (1.87) .38

ab

Covar (Slopes)

0.47 (0.27) .09

0.41 (0.28) .14

0.40 (0.28) .15

ab

Covar (Residuals)

0.32 (0.42) .44

0.39 (0.41) .34

0.39 (0.41) .34

Correlation of Levels

0.039

0.045

0.044

Correlation of Slopes

0.345

0.283

0.277

Correlation of Residuals

0.018

0.022

0.022

N

939

934

934

occasions

4

4

4

parameters

NA

NA

NA

LL

-21,197

-21,023

-21,013

AIC

42,436

42,104

42,108

BIC

42,538

42,244

42,307

## mmse

Gender = *female*; Process (a) = *grip*; Process (b) = *mmse*

process

label

a

aeh

aehplus

a

Level

60.95 (0.71) <.01

60.53 (0.99) <.01

59.86 (1.06) <.01

a

Slope

-2.05 (0.18) <.01

-2.00 (0.26) <.01

-2.08 (0.28) <.01

a

Level \* age

-0.90 (0.11) <.01

-0.94 (0.11) <.01

-0.95 (0.11) <.01

a

Level \* education

---

0.02 (0.13) .87

0.02 (0.13) .88

a

Level \* height

---

-10.14 (7.98) .20

-9.35 (7.95) .24

a

Level \* smoking

---

---

1.10 (1.00) .27

a

Level \* cardio

---

---

2.61 (1.26) .04

a

Level \* diabetes

---

---

-0.34 (1.87) .85

a

Slope \* age

0.01 (0.03) .69

0.01 (0.03) .72

0.02 (0.03) .45

a

Slope \* education

---

-0.02 (0.04) .59

-0.02 (0.03) .54

a

Slope \* height

---

-0.56 (1.97) .78

-1.17 (1.97) .55

a

Slope \* smoking

---

---

0.49 (0.25) .05

a

Slope \* cardio

---

---

-0.50 (0.31) .10

a

Slope \* diabetes

---

---

-0.43 (0.49) .37

b

Level

28.80 (0.06) <.01

28.53 (0.08) <.01

28.57 (0.09) <.01

b

Slope

-0.08 (0.02) <.01

-0.09 (0.04) .05

-0.11 (0.05) .03

b

Level \* age

-0.08 (0.01) <.01

-0.08 (0.01) <.01

-0.08 (0.01) <.01

b

Level \* education

---

0.06 (0.01) <.01

0.06 (0.01) <.01

b

Level \* height

---

0.05 (0.69) .94

-0.00 (0.69) .99

b

Level \* smoking

---

---

-0.03 (0.09) .75

b

Level \* cardio

---

---

-0.14 (0.11) .21

b

Level \* diabetes

---

---

-0.09 (0.16) .58

b

Slope \* age

-0.01 (0.00) <.01

-0.01 (0.00) <.01

-0.01 (0.00) .01

b

Slope \* education

---

0.00 (0.01) .73

0.00 (0.01) .71

b

Slope \* height

---

0.03 (0.37) .94

0.01 (0.38) .98

b

Slope \* smoking

---

---

0.04 (0.04) .33

b

Slope \* cardio

---

---

0.01 (0.06) .86

b

Slope \* diabetes

---

---

0.03 (0.08) .73

a

Var (Level)

179.04 (10.95) <.01

178.23 (10.94) <.01

176.92 (10.91) <.01

a

Var (Slope)

2.82 (0.91) <.01

2.81 (0.91) <.01

2.69 (0.88) <.01

a

Var (Residual)

37.87 (2.66) <.01

37.84 (2.67) <.01

37.87 (2.67) <.01

a

Covar (Level, Slope)

-2.55 (2.06) .22

-2.50 (2.06) .22

-2.40 (2.04) .24

b

Var (Level)

0.72 (0.20) <.01

0.65 (0.19) <.01

0.65 (0.19) <.01

b

Var (Slope)

0.04 (0.07) .61

0.04 (0.07) .59

0.04 (0.07) .59

b

Var (Residual)

1.66 (0.32) <.01

1.64 (0.32) <.01

1.64 (0.32) <.01

b

Covar (Level, Slope)

0.14 (0.11) .18

0.14 (0.10) .18

0.14 (0.10) .17

ab

Covar (Levels)

0.77 (0.67) .25

0.80 (0.65) .21

0.86 (0.65) .18

ab

Covar (Slopes)

0.06 (0.10) .56

0.06 (0.10) .57

0.05 (0.10) .60

ab

Covar (Residuals)

-0.01 (0.19) .94

-0.02 (0.19) .91

-0.02 (0.19) .92

Correlation of Levels

0.0673

0.0746

0.0804

Correlation of Slopes

0.1826

0.1692

0.1606

Correlation of Residuals

-0.0018

-0.0025

-0.0024

N

939

934

934

occasions

4

4

4

parameters

NA

NA

NA

LL

-18,068

-17,968

-17,959

AIC

36,179

35,994

36,001

BIC

36,281

36,134

36,199

## Summary

Study = *NUAGE*; Gender = *female*; Process (a) = *grip*

Computed correlations:

label

process\_b

a

aeh

aehplus

Correlation of Levels

mmms

0.04

0.05

0.04

Correlation of Levels

mmse

0.07

0.07

0.08

label

process\_b

a

aeh

aehplus

Correlation of Slopes

mmms

0.35

0.28

0.28

Correlation of Slopes

mmse

0.18

0.17

0.16

label

process\_b

a

aeh

aehplus

Correlation of Residuals

mmms

0.02

0.02

0.02

Correlation of Residuals

mmse

-0.00

-0.00

-0.00

P-values for corresponding covariances:

label

process\_b

a

aeh

aehplus

Covariance of Levels

mmms

0.41

0.36

0.38

Covariance of Levels

mmse

0.25

0.21

0.18

label

process\_b

a

aeh

aehplus

Covariance of Slopes

mmms

0.09

0.14

0.15

Covariance of Slopes

mmse

0.56

0.57

0.60

label

process\_b

a

aeh

aehplus

Covariance of Residuals

mmms

0.44

0.34

0.34

Covariance of Residuals

mmse

0.94

0.91

0.92

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *grip*; Process (b): *mmms*, *mmse*

process

label

mmms

mmse

mean(sd)

a

Level

80.95 (1.32) <.01

80.95 (1.32) <.01

80.95(0.00)

a

Slope

-2.39 (0.29) <.01

-2.39 (0.29) <.01

-2.39(0.00)

a

Level \* age

-1.39 (0.13) <.01

-1.39 (0.13) <.01

-1.39(0.00)

a

Level \* education

0.12 (0.11) .28

0.12 (0.11) .28

0.12(0.00)

a

Level \* height

59.34 (7.27) <.01

59.29 (7.27) <.01

59.32(0.03)

a

Level \* smoking

0.29 (1.12) .79

0.29 (1.12) .79

0.29(0.00)

a

Level \* cardio

1.46 (1.20) .22

1.46 (1.20) .22

1.46(0.00)

a

Level \* diabetes

-2.96 (1.76) .09

-2.96 (1.76) .09

-2.96(0.00)

a

Slope \* age

-0.03 (0.03) .35

-0.03 (0.03) .35

-0.03(0.00)

a

Slope \* education

0.00 (0.02) .99

0.00 (0.02) .97

0.00(0.00)

a

Slope \* height

-0.66 (1.65) .69

-0.66 (1.65) .69

-0.66(0.00)

a

Slope \* smoking

-0.13 (0.25) .61

-0.13 (0.25) .60

-0.13(0.00)

a

Slope \* cardio

0.02 (0.25) .92

0.03 (0.25) .91

0.03(0.00)

a

Slope \* diabetes

-0.37 (0.38) .34

-0.36 (0.38) .35

-0.36(0.01)

b

Level

91.35 (0.32) <.01

27.75 (0.13) <.01

---

b

Slope

-0.57 (0.15) <.01

-0.22 (0.06) <.01

---

b

Level \* age

-0.15 (0.03) <.01

-0.05 (0.01) <.01

---

b

Level \* education

0.43 (0.03) <.01

0.08 (0.01) <.01

---

b

Level \* height

6.70 (1.99) <.01

2.00 (0.73) .01

---

b

Level \* smoking

0.19 (0.29) .52

0.09 (0.11) .40

---

b

Level \* cardio

0.36 (0.32) .26

0.10 (0.11) .39

---

b

Level \* diabetes

0.10 (0.41) .80

0.00 (0.15) .99

---

b

Slope \* age

-0.04 (0.02) <.01

-0.01 (0.01) .07

---

b

Slope \* education

0.03 (0.01) .01

0.01 (0.00) .02

---

b

Slope \* height

1.62 (0.87) .06

0.08 (0.37) .82

---

b

Slope \* smoking

-0.18 (0.13) .17

-0.07 (0.05) .20

---

b

Slope \* cardio

0.15 (0.14) .28

0.04 (0.06) .50

---

b

Slope \* diabetes

-0.26 (0.19) .17

0.03 (0.08) .70

---

a

Var (Level)

201.61 (13.61) <.01

201.47 (13.60) <.01

201.54(0.10)

a

Var (Slope)

1.93 (0.89) .03

1.88 (0.89) .03

1.91(0.03)

a

Var (Residual)

36.05 (2.48) <.01

36.12 (2.48) <.01

36.08(0.05)

a

Covar (Level, Slope)

-2.85 (2.29) .21

-2.75 (2.28) .23

-2.80(0.07)

b

Var (Level)

8.82 (1.00) <.01

0.78 (0.14) <.01

---

b

Var (Slope)

0.71 (0.31) .02

0.10 (0.04) .01

---

b

Var (Residual)

11.28 (0.57) <.01

1.86 (0.09) <.01

---

b

Covar (Level, Slope)

2.33 (0.37) <.01

0.21 (0.05) <.01

---

ab

Covar (Levels)

5.49 (2.04) .01

2.28 (0.74) <.01

---

ab

Covar (Slopes)

0.33 (0.23) .16

0.13 (0.11) .23

---

ab

Covar (Residuals)

-0.71 (0.47) .13

0.02 (0.22) .92

---

Correlation of Levels

0.130

0.1818

0.16(0.04)

Correlation of Slopes

0.280

0.2988

0.29(0.01)

Correlation of Residuals

-0.035

0.0026

-0.02(0.03)

N

847

847

847.00(0.00)

occasions

4

4

4.00(0.00)

parameters

NA

NA

---

LL

-19,408

-16,557

-1.798228e+04(2,016)

AIC

38,898

33,195

3.604656e+04(4,032)

BIC

39,092

33,390

3.624097e+04(4,032)

## mmms

Gender = *male*; Process (a) = *grip*; Process (b) = *mmms*

process

label

a

aeh

aehplus

a

Level

79.89 (0.79) <.01

81.11 (0.97) <.01

80.95 (1.32) <.01

a

Slope

-2.48 (0.16) <.01

-2.50 (0.23) <.01

-2.39 (0.29) <.01

a

Level \* age

-1.50 (0.13) <.01

-1.39 (0.13) <.01

-1.39 (0.13) <.01

a

Level \* education

---

0.12 (0.11) .29

0.12 (0.11) .28

a

Level \* height

---

58.66 (7.31) <.01

59.34 (7.27) <.01

a

Level \* smoking

---

---

0.29 (1.12) .79

a

Level \* cardio

---

---

1.46 (1.20) .22

a

Level \* diabetes

---

---

-2.96 (1.76) .09

a

Slope \* age

-0.03 (0.03) .32

-0.03 (0.03) .30

-0.03 (0.03) .35

a

Slope \* education

---

0.00 (0.02) .98

0.00 (0.02) .99

a

Slope \* height

---

-0.75 (1.65) .65

-0.66 (1.65) .69

a

Slope \* smoking

---

---

-0.13 (0.25) .61

a

Slope \* cardio

---

---

0.02 (0.25) .92

a

Slope \* diabetes

---

---

-0.37 (0.38) .34

b

Level

93.61 (0.22) <.01

91.57 (0.26) <.01

91.35 (0.32) <.01

b

Slope

-0.56 (0.07) <.01

-0.69 (0.11) <.01

-0.57 (0.15) <.01

b

Level \* age

-0.19 (0.04) <.01

-0.14 (0.03) <.01

-0.15 (0.03) <.01

b

Level \* education

---

0.43 (0.03) <.01

0.43 (0.03) <.01

b

Level \* height

---

6.61 (1.98) <.01

6.70 (1.99) <.01

b

Level \* smoking

---

---

0.19 (0.29) .52

b

Level \* cardio

---

---

0.36 (0.32) .26

b

Level \* diabetes

---

---

0.10 (0.41) .80

b

Slope \* age

-0.05 (0.02) <.01

-0.05 (0.02) <.01

-0.04 (0.02) <.01

b

Slope \* education

---

0.03 (0.01) .01

0.03 (0.01) .01

b

Slope \* height

---

1.50 (0.89) .09

1.62 (0.87) .06

b

Slope \* smoking

---

---

-0.18 (0.13) .17

b

Slope \* cardio

---

---

0.15 (0.14) .28

b

Slope \* diabetes

---

---

-0.26 (0.19) .17

a

Var (Level)

219.36 (14.01) <.01

202.81 (13.59) <.01

201.61 (13.61) <.01

a

Var (Slope)

1.96 (0.90) .03

1.95 (0.89) .03

1.93 (0.89) .03

a

Var (Residual)

36.03 (2.47) <.01

36.06 (2.48) <.01

36.05 (2.48) <.01

a

Covar (Level, Slope)

-2.96 (2.35) .21

-2.80 (2.29) .22

-2.85 (2.29) .21

b

Var (Level)

13.93 (1.11) <.01

8.84 (1.00) <.01

8.82 (1.00) <.01

b

Var (Slope)

0.71 (0.31) .02

0.72 (0.31) .02

0.71 (0.31) .02

b

Var (Residual)

11.38 (0.58) <.01

11.29 (0.57) <.01

11.28 (0.57) <.01

b

Covar (Level, Slope)

2.90 (0.39) <.01

2.34 (0.37) <.01

2.33 (0.37) <.01

ab

Covar (Levels)

9.91 (2.46) <.01

5.54 (2.05) .01

5.49 (2.04) .01

ab

Covar (Slopes)

0.34 (0.23) .15

0.34 (0.23) .15

0.33 (0.23) .16

ab

Covar (Residuals)

-0.72 (0.47) .13

-0.70 (0.47) .13

-0.71 (0.47) .13

Correlation of Levels

0.179

0.131

0.130

Correlation of Slopes

0.284

0.283

0.280

Correlation of Residuals

-0.035

-0.035

-0.035

N

851

847

847

occasions

4

4

4

parameters

NA

NA

NA

LL

-19,588

-19,414

-19,408

AIC

39,219

38,887

38,898

BIC

39,318

39,024

39,092

## mmse

Gender = *male*; Process (a) = *grip*; Process (b) = *mmse*

process

label

a

aeh

aehplus

a

Level

79.89 (0.79) <.01

81.10 (0.97) <.01

80.95 (1.32) <.01

a

Slope

-2.47 (0.16) <.01

-2.51 (0.23) <.01

-2.39 (0.29) <.01

a

Level \* age

-1.50 (0.13) <.01

-1.39 (0.13) <.01

-1.39 (0.13) <.01

a

Level \* education

---

0.12 (0.11) .29

0.12 (0.11) .28

a

Level \* height

---

58.61 (7.31) <.01

59.29 (7.27) <.01

a

Level \* smoking

---

---

0.29 (1.12) .79

a

Level \* cardio

---

---

1.46 (1.20) .22

a

Level \* diabetes

---

---

-2.96 (1.76) .09

a

Slope \* age

-0.03 (0.03) .32

-0.03 (0.03) .31

-0.03 (0.03) .35

a

Slope \* education

---

0.00 (0.02) .95

0.00 (0.02) .97

a

Slope \* height

---

-0.75 (1.65) .65

-0.66 (1.65) .69

a

Slope \* smoking

---

---

-0.13 (0.25) .60

a

Slope \* cardio

---

---

0.03 (0.25) .91

a

Slope \* diabetes

---

---

-0.36 (0.38) .35

b

Level

28.22 (0.07) <.01

27.83 (0.10) <.01

27.75 (0.13) <.01

b

Slope

-0.19 (0.03) <.01

-0.25 (0.05) <.01

-0.22 (0.06) <.01

b

Level \* age

-0.06 (0.01) <.01

-0.05 (0.01) <.01

-0.05 (0.01) <.01

b

Level \* education

---

0.08 (0.01) <.01

0.08 (0.01) <.01

b

Level \* height

---

1.98 (0.74) .01

2.00 (0.73) .01

b

Level \* smoking

---

---

0.09 (0.11) .40

b

Level \* cardio

---

---

0.10 (0.11) .39

b

Level \* diabetes

---

---

0.00 (0.15) .99

b

Slope \* age

-0.01 (0.01) .04

-0.01 (0.01) .07

-0.01 (0.01) .07

b

Slope \* education

---

0.01 (0.00) .02

0.01 (0.00) .02

b

Slope \* height

---

0.06 (0.37) .88

0.08 (0.37) .82

b

Slope \* smoking

---

---

-0.07 (0.05) .20

b

Slope \* cardio

---

---

0.04 (0.06) .50

b

Slope \* diabetes

---

---

0.03 (0.08) .70

a

Var (Level)

219.20 (14.01) <.01

202.65 (13.58) <.01

201.47 (13.60) <.01

a

Var (Slope)

1.89 (0.89) .03

1.90 (0.89) .03

1.88 (0.89) .03

a

Var (Residual)

36.13 (2.48) <.01

36.13 (2.48) <.01

36.12 (2.48) <.01

a

Covar (Level, Slope)

-2.82 (2.33) .23

-2.68 (2.28) .24

-2.75 (2.28) .23

b

Var (Level)

1.01 (0.15) <.01

0.78 (0.14) <.01

0.78 (0.14) <.01

b

Var (Slope)

0.10 (0.04) .01

0.10 (0.04) .01

0.10 (0.04) .01

b

Var (Residual)

1.86 (0.09) <.01

1.86 (0.09) <.01

1.86 (0.09) <.01

b

Covar (Level, Slope)

0.24 (0.06) <.01

0.21 (0.05) <.01

0.21 (0.05) <.01

ab

Covar (Levels)

3.38 (0.80) <.01

2.31 (0.74) <.01

2.28 (0.74) <.01

ab

Covar (Slopes)

0.13 (0.11) .25

0.13 (0.11) .25

0.13 (0.11) .23

ab

Covar (Residuals)

0.01 (0.22) .94

0.02 (0.22) .93

0.02 (0.22) .92

Correlation of Levels

0.2275

0.1835

0.1818

Correlation of Slopes

0.2928

0.2954

0.2988

Correlation of Residuals

0.0018

0.0024

0.0026

N

851

847

847

occasions

4

4

4

parameters

NA

NA

NA

LL

-16,665

-16,562

-16,557

AIC

33,373

33,183

33,195

BIC

33,472

33,320

33,390

## Summary

Study = *NUAGE*; Gender = *male*; Process (a) = *grip*

Computed correlations:

label

process\_b

a

aeh

aehplus

Correlation of Levels

mmms

0.18

0.13

0.13

Correlation of Levels

mmse

0.23

0.18

0.18

label

process\_b

a

aeh

aehplus

Correlation of Slopes

mmms

0.28

0.28

0.28

Correlation of Slopes

mmse

0.29

0.30

0.30

label

process\_b

a

aeh

aehplus

Correlation of Residuals

mmms

-0.04

-0.03

-0.04

Correlation of Residuals

mmse

0.00

0.00

0.00

P-values for corresponding covariances:

label

process\_b

a

aeh

aehplus

Covariance of Levels

mmms

0.00

0.01

0.01

Covariance of Levels

mmse

0.00

0.00

0.00

label

process\_b

a

aeh

aehplus

Covariance of Slopes

mmms

0.15

0.15

0.16

Covariance of Slopes

mmse

0.25

0.25

0.23

label

process\_b

a

aeh

aehplus

Covariance of Residuals

mmms

0.13

0.13

0.13

Covariance of Residuals

mmse

0.94

0.93

0.92

#Session Info

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 ggplot2\_2.1.0 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4   
[5] magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 formatR\_1.4 plyr\_1.8.4 highr\_0.6 tools\_3.3.1 boot\_1.3-18   
 [7] digest\_0.6.10 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34 texreg\_1.36.7   
[13] DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 coda\_0.18-1 dplyr\_0.5.0 stringr\_1.1.0   
[19] htmlwidgets\_0.7 grid\_3.3.1 DT\_0.2 R6\_2.2.0 gsubfn\_0.6-6 rmarkdown\_1.1   
[25] pander\_0.6.0 tidyr\_0.6.0 readr\_1.0.0 scales\_0.4.1 htmltools\_0.3.5 rsconnect\_0.5   
[31] assertthat\_0.1 testit\_0.5 xtable\_1.8-2 colorspace\_1.2-7 stringi\_1.1.2 lazyeval\_0.2.0   
[37] munsell\_0.4.3