MAP : Seed report

Date: 2016-10-21

Table of Contents

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

# fev : Available models

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

|  |  |  |
| --- | --- | --- |
| process\_a | process\_b | n\_models |
| fev | gait | 2 |
| fev | grip | 2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| map | female | aehplus | fev | gait | 1 |
| map | female | aehplus | fev | grip | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| map | male | aehplus | fev | gait | 1 |
| map | male | aehplus | fev | grip | 1 |

# female

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | grip | mean(sd) |
| a | Level | 1.68 (0.03) <.01 | 1.68 (0.03) <.01 | 1.68(0.00) |
| a | Slope | -0.04 (0.01) <.01 | -0.04 (0.01) <.01 | -0.04(0.00) |
| a | Level \* age | -0.02 (0.00) <.01 | -0.02 (0.00) <.01 | -0.02(0.00) |
| a | Level \* education | 0.01 (0.00) <.01 | 0.01 (0.00) <.01 | 0.01(0.00) |
| a | Level \* height | 1.62 (0.22) <.01 | 1.63 (0.22) <.01 | 1.63(0.00) |
| a | Level \* smoking | -0.09 (0.02) <.01 | -0.09 (0.02) <.01 | -0.09(0.00) |
| a | Level \* cardio | -0.06 (0.05) .21 | --- | -0.06(NA) |
| a | Level \* diabetes | -0.02 (0.04) .56 | -0.02 (0.04) .57 | -0.02(0.00) |
| a | Slope \* age | 0.00 (0.00) .05 | 0.00 (0.00) .07 | 0.00(0.00) |
| a | Slope \* education | 0.00 (0.00) .92 | 0.00 (0.00) .94 | 0.00(0.00) |
| a | Slope \* height | -0.07 (0.04) .10 | -0.07 (0.04) .10 | -0.07(0.00) |
| a | Slope \* smoking | 0.00 (0.00) .62 | 0.00 (0.00) .73 | 0.00(0.00) |
| a | Slope \* cardio | -0.01 (0.01) .14 | --- | -0.01(NA) |
| a | Slope \* diabetes | -0.01 (0.01) .48 | -0.01 (0.01) .40 | -0.01(0.00) |
| b | Level | 0.62 (0.02) <.01 | 43.84 (1.26) <.01 | --- |
| b | Slope | 0.01 (0.01) .23 | -0.32 (0.31) .31 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | -0.61 (0.05) <.01 | --- |
| b | Level \* education | 0.01 (0.00) <.01 | 0.39 (0.13) <.01 | --- |
| b | Level \* height | 0.23 (0.09) .01 | 38.99 (4.20) <.01 | --- |
| b | Level \* smoking | -0.01 (0.01) .19 | 0.42 (0.68) .54 | --- |
| b | Level \* cardio | -0.00 (0.02) .94 | --- | --- |
| b | Level \* diabetes | -0.07 (0.02) <.01 | 0.03 (1.23) .98 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | -0.02 (0.01) .09 | --- |
| b | Slope \* education | -0.00 (0.00) .01 | -0.08 (0.03) .01 | --- |
| b | Slope \* height | -0.01 (0.03) .66 | -1.25 (1.16) .28 | --- |
| b | Slope \* smoking | -0.00 (0.00) .40 | 0.04 (0.17) .82 | --- |
| b | Slope \* cardio | -0.01 (0.01) .38 | --- | --- |
| b | Slope \* diabetes | 0.00 (0.01) .47 | -0.32 (0.29) .26 | --- |
| a | Var (Level) | 0.11 (0.01) <.01 | 0.11 (0.01) <.01 | 0.11(0.00) |
| a | Var (Slope) | 0.00 (0.00) .52 | 0.00 (0.00) .53 | 0.00(0.00) |
| a | Var (Residual) | 0.03 (0.00) <.01 | 0.03 (0.00) <.01 | 0.03(0.00) |
| a | Covar (Level, Slope) | 0.00 (0.00) .90 | 0.00 (0.00) .99 | 0.00(0.00) |
| b | Var (Level) | 0.02 (0.00) <.01 | 94.40 (5.94) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) <.01 | 0.72 (0.33) .03 | --- |
| b | Var (Residual) | 0.02 (0.00) <.01 | 19.67 (1.07) <.01 | --- |
| b | Covar (Level, Slope) | -0.00 (0.00) .12 | -1.59 (1.08) .14 | --- |
| ab | Covar (Levels) | 0.01 (0.00) <.01 | 0.41 (0.13) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .94 | 0.00 (0.01) .66 | --- |
| ab | Covar (Residuals) | 0.00 (0.00) .58 | 0.01 (0.02) .53 | --- |
|  | Correlation of Levels | 0.24 | 0.128 | 0.18(0.08) |
|  | Correlation of Slopes | NaN | Inf | Inf(NA) |
|  | Correlation of Residuals | 0.00 | 0.021 | 0.01(0.01) |
|  | N | 931 | 931 | 931.00(0.00) |
|  | occasions | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 37 | 39.00(2.83) |
|  | LL | 963 | -9,002 | -4,019(7.046849e+03) |
|  | AIC | -1,845 | 18,079 | 8,117(1.408804e+04) |
|  | BIC | -1,646 | 18,258 | 8,306(1.407436e+04) |

## gait

Gender = *female*; Process (a) = *fev*; Process (b) = *gait*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 1.68 (0.03) <.01 |
| a | Slope | -0.04 (0.01) <.01 |
| a | Level \* age | -0.02 (0.00) <.01 |
| a | Level \* education | 0.01 (0.00) <.01 |
| a | Level \* height | 1.62 (0.22) <.01 |
| a | Level \* smoking | -0.09 (0.02) <.01 |
| a | Level \* cardio | -0.06 (0.05) .21 |
| a | Level \* diabetes | -0.02 (0.04) .56 |
| a | Slope \* age | 0.00 (0.00) .05 |
| a | Slope \* education | 0.00 (0.00) .92 |
| a | Slope \* height | -0.07 (0.04) .10 |
| a | Slope \* smoking | 0.00 (0.00) .62 |
| a | Slope \* cardio | -0.01 (0.01) .14 |
| a | Slope \* diabetes | -0.01 (0.01) .48 |
| b | Level | 0.62 (0.02) <.01 |
| b | Slope | 0.01 (0.01) .23 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.01 (0.00) <.01 |
| b | Level \* height | 0.23 (0.09) .01 |
| b | Level \* smoking | -0.01 (0.01) .19 |
| b | Level \* cardio | -0.00 (0.02) .94 |
| b | Level \* diabetes | -0.07 (0.02) <.01 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | -0.00 (0.00) .01 |
| b | Slope \* height | -0.01 (0.03) .66 |
| b | Slope \* smoking | -0.00 (0.00) .40 |
| b | Slope \* cardio | -0.01 (0.01) .38 |
| b | Slope \* diabetes | 0.00 (0.01) .47 |
| a | Var (Level) | 0.11 (0.01) <.01 |
| a | Var (Slope) | 0.00 (0.00) .52 |
| a | Var (Residual) | 0.03 (0.00) <.01 |
| a | Covar (Level, Slope) | 0.00 (0.00) .90 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) <.01 |
| b | Var (Residual) | 0.02 (0.00) <.01 |
| b | Covar (Level, Slope) | -0.00 (0.00) .12 |
| ab | Covar (Levels) | 0.01 (0.00) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .94 |
| ab | Covar (Residuals) | 0.00 (0.00) .58 |
|  | Correlation of Levels | 0.24 |
|  | Correlation of Slopes | NaN |
|  | Correlation of Residuals | 0.00 |
|  | N | 931 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | 963 |
|  | AIC | -1,845 |
|  | BIC | -1,646 |

## grip

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 1.68 (0.03) <.01 |
| a | Slope | -0.04 (0.01) <.01 |
| a | Level \* age | -0.02 (0.00) <.01 |
| a | Level \* education | 0.01 (0.00) <.01 |
| a | Level \* height | 1.63 (0.22) <.01 |
| a | Level \* smoking | -0.09 (0.02) <.01 |
| a | Level \* cardio | --- |
| a | Level \* diabetes | -0.02 (0.04) .57 |
| a | Slope \* age | 0.00 (0.00) .07 |
| a | Slope \* education | 0.00 (0.00) .94 |
| a | Slope \* height | -0.07 (0.04) .10 |
| a | Slope \* smoking | 0.00 (0.00) .73 |
| a | Slope \* cardio | --- |
| a | Slope \* diabetes | -0.01 (0.01) .40 |
| b | Level | 43.84 (1.26) <.01 |
| b | Slope | -0.32 (0.31) .31 |
| b | Level \* age | -0.61 (0.05) <.01 |
| b | Level \* education | 0.39 (0.13) <.01 |
| b | Level \* height | 38.99 (4.20) <.01 |
| b | Level \* smoking | 0.42 (0.68) .54 |
| b | Level \* cardio | --- |
| b | Level \* diabetes | 0.03 (1.23) .98 |
| b | Slope \* age | -0.02 (0.01) .09 |
| b | Slope \* education | -0.08 (0.03) .01 |
| b | Slope \* height | -1.25 (1.16) .28 |
| b | Slope \* smoking | 0.04 (0.17) .82 |
| b | Slope \* cardio | --- |
| b | Slope \* diabetes | -0.32 (0.29) .26 |
| a | Var (Level) | 0.11 (0.01) <.01 |
| a | Var (Slope) | 0.00 (0.00) .53 |
| a | Var (Residual) | 0.03 (0.00) <.01 |
| a | Covar (Level, Slope) | 0.00 (0.00) .99 |
| b | Var (Level) | 94.40 (5.94) <.01 |
| b | Var (Slope) | 0.72 (0.33) .03 |
| b | Var (Residual) | 19.67 (1.07) <.01 |
| b | Covar (Level, Slope) | -1.59 (1.08) .14 |
| ab | Covar (Levels) | 0.41 (0.13) <.01 |
| ab | Covar (Slopes) | 0.00 (0.01) .66 |
| ab | Covar (Residuals) | 0.01 (0.02) .53 |
|  | Correlation of Levels | 0.128 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.021 |
|  | N | 931 |
|  | occasions | 5 |
|  | parameters | 37 |
|  | LL | -9,002 |
|  | AIC | 18,079 |
|  | BIC | 18,258 |

## Summary

Study = *MAP*; Gender = *female*; Process (a) = *fev*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.24 |
| Correlation of Levels | grip | 0.13 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | NaN |
| Correlation of Slopes | grip | Inf |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.00 |
| Correlation of Residuals | grip | 0.02 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | gait | 0.00 |
| Covariance of Levels | grip | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | gait | 0.94 |
| Covariance of Slopes | grip | 0.66 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | gait | 0.58 |
| Covariance of Residuals | grip | 0.53 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | grip | mean(sd) |
| a | Level | 2.39 (0.11) <.01 | 2.39 (0.11) <.01 | 2.39(0.00) |
| a | Slope | -0.09 (0.02) <.01 | -0.09 (0.02) <.01 | -0.09(0.00) |
| a | Level \* age | -0.03 (0.00) <.01 | -0.03 (0.00) <.01 | -0.03(0.00) |
| a | Level \* education | 0.02 (0.01) .02 | 0.02 (0.01) .02 | 0.02(0.00) |
| a | Level \* height | 1.64 (0.45) <.01 | 1.67 (0.45) <.01 | 1.65(0.02) |
| a | Level \* smoking | -0.20 (0.06) <.01 | -0.20 (0.06) <.01 | -0.20(0.00) |
| a | Level \* cardio | -0.11 (0.09) .26 | -0.10 (0.09) .26 | -0.11(0.00) |
| a | Level \* diabetes | -0.23 (0.08) <.01 | -0.22 (0.08) .01 | -0.23(0.01) |
| a | Slope \* age | 0.00 (0.00) .71 | 0.00 (0.00) .79 | 0.00(0.00) |
| a | Slope \* education | 0.00 (0.00) .87 | 0.00 (0.00) .78 | 0.00(0.00) |
| a | Slope \* height | 0.11 (0.13) .40 | 0.11 (0.13) .39 | 0.11(0.00) |
| a | Slope \* smoking | 0.04 (0.01) .01 | 0.04 (0.01) .01 | 0.04(0.00) |
| a | Slope \* cardio | -0.02 (0.02) .26 | -0.02 (0.02) .23 | -0.02(0.00) |
| a | Slope \* diabetes | 0.04 (0.02) .04 | 0.03 (0.02) .07 | 0.04(0.00) |
| b | Level | 0.67 (0.04) <.01 | 79.85 (2.88) <.01 | --- |
| b | Slope | 0.01 (0.01) .43 | -2.48 (0.92) .01 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | -1.05 (0.13) <.01 | --- |
| b | Level \* education | 0.01 (0.00) <.01 | 0.03 (0.26) .91 | --- |
| b | Level \* height | 0.14 (0.15) .37 | 80.61 (11.32) <.01 | --- |
| b | Level \* smoking | -0.01 (0.02) .43 | 0.39 (1.75) .82 | --- |
| b | Level \* cardio | -0.00 (0.03) .94 | -5.58 (2.75) .04 | --- |
| b | Level \* diabetes | -0.04 (0.02) .17 | -6.45 (2.28) <.01 | --- |
| b | Slope \* age | -0.00 (0.00) .15 | -0.04 (0.04) .33 | --- |
| b | Slope \* education | -0.00 (0.00) .11 | 0.10 (0.07) .16 | --- |
| b | Slope \* height | 0.00 (0.06) .99 | -2.88 (3.59) .42 | --- |
| b | Slope \* smoking | -0.00 (0.01) .49 | -0.09 (0.46) .84 | --- |
| b | Slope \* cardio | -0.02 (0.01) .11 | 0.84 (0.66) .20 | --- |
| b | Slope \* diabetes | 0.01 (0.01) .37 | 1.28 (0.52) .01 | --- |
| a | Var (Level) | 0.26 (0.02) <.01 | 0.26 (0.02) <.01 | 0.26(0.00) |
| a | Var (Slope) | 0.00 (0.00) .23 | 0.00 (0.00) .29 | 0.00(0.00) |
| a | Var (Residual) | 0.04 (0.01) <.01 | 0.04 (0.01) <.01 | 0.04(0.00) |
| a | Covar (Level, Slope) | -0.01 (0.00) .16 | -0.00 (0.00) .19 | -0.01(0.00) |
| b | Var (Level) | 0.02 (0.00) <.01 | 203.36 (19.15) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .24 | 3.46 (1.49) .02 | --- |
| b | Var (Residual) | 0.02 (0.00) <.01 | 32.55 (3.05) <.01 | --- |
| b | Covar (Level, Slope) | 0.00 (0.00) .73 | -6.47 (3.30) .05 | --- |
| ab | Covar (Levels) | 0.02 (0.01) .01 | 1.79 (0.50) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .39 | -0.00 (0.03) .91 | --- |
| ab | Covar (Residuals) | 0.00 (0.00) .90 | -0.02 (0.06) .78 | --- |
|  | Correlation of Levels | 0.24 | 0.246 | 0.24(0.00) |
|  | Correlation of Slopes | NaN | -0.051 | -0.05(NA) |
|  | Correlation of Residuals | 0.00 | -0.014 | -0.01(0.01) |
|  | N | 309 | 309 | 309.00(0.00) |
|  | occasions | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -31 | -3,550 | -1,790(2,488) |
|  | AIC | 144 | 7,182 | 3,663(4,976) |
|  | BIC | 297 | 7,335 | 3,816(4,976) |

## gait

Gender = *male*; Process (a) = *fev*; Process (b) = *gait*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 2.39 (0.11) <.01 |
| a | Slope | -0.09 (0.02) <.01 |
| a | Level \* age | -0.03 (0.00) <.01 |
| a | Level \* education | 0.02 (0.01) .02 |
| a | Level \* height | 1.64 (0.45) <.01 |
| a | Level \* smoking | -0.20 (0.06) <.01 |
| a | Level \* cardio | -0.11 (0.09) .26 |
| a | Level \* diabetes | -0.23 (0.08) <.01 |
| a | Slope \* age | 0.00 (0.00) .71 |
| a | Slope \* education | 0.00 (0.00) .87 |
| a | Slope \* height | 0.11 (0.13) .40 |
| a | Slope \* smoking | 0.04 (0.01) .01 |
| a | Slope \* cardio | -0.02 (0.02) .26 |
| a | Slope \* diabetes | 0.04 (0.02) .04 |
| b | Level | 0.67 (0.04) <.01 |
| b | Slope | 0.01 (0.01) .43 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.01 (0.00) <.01 |
| b | Level \* height | 0.14 (0.15) .37 |
| b | Level \* smoking | -0.01 (0.02) .43 |
| b | Level \* cardio | -0.00 (0.03) .94 |
| b | Level \* diabetes | -0.04 (0.02) .17 |
| b | Slope \* age | -0.00 (0.00) .15 |
| b | Slope \* education | -0.00 (0.00) .11 |
| b | Slope \* height | 0.00 (0.06) .99 |
| b | Slope \* smoking | -0.00 (0.01) .49 |
| b | Slope \* cardio | -0.02 (0.01) .11 |
| b | Slope \* diabetes | 0.01 (0.01) .37 |
| a | Var (Level) | 0.26 (0.02) <.01 |
| a | Var (Slope) | 0.00 (0.00) .23 |
| a | Var (Residual) | 0.04 (0.01) <.01 |
| a | Covar (Level, Slope) | -0.01 (0.00) .16 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .24 |
| b | Var (Residual) | 0.02 (0.00) <.01 |
| b | Covar (Level, Slope) | 0.00 (0.00) .73 |
| ab | Covar (Levels) | 0.02 (0.01) .01 |
| ab | Covar (Slopes) | 0.00 (0.00) .39 |
| ab | Covar (Residuals) | 0.00 (0.00) .90 |
|  | Correlation of Levels | 0.24 |
|  | Correlation of Slopes | NaN |
|  | Correlation of Residuals | 0.00 |
|  | N | 309 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -31 |
|  | AIC | 144 |
|  | BIC | 297 |

## grip

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 2.39 (0.11) <.01 |
| a | Slope | -0.09 (0.02) <.01 |
| a | Level \* age | -0.03 (0.00) <.01 |
| a | Level \* education | 0.02 (0.01) .02 |
| a | Level \* height | 1.67 (0.45) <.01 |
| a | Level \* smoking | -0.20 (0.06) <.01 |
| a | Level \* cardio | -0.10 (0.09) .26 |
| a | Level \* diabetes | -0.22 (0.08) .01 |
| a | Slope \* age | 0.00 (0.00) .79 |
| a | Slope \* education | 0.00 (0.00) .78 |
| a | Slope \* height | 0.11 (0.13) .39 |
| a | Slope \* smoking | 0.04 (0.01) .01 |
| a | Slope \* cardio | -0.02 (0.02) .23 |
| a | Slope \* diabetes | 0.03 (0.02) .07 |
| b | Level | 79.85 (2.88) <.01 |
| b | Slope | -2.48 (0.92) .01 |
| b | Level \* age | -1.05 (0.13) <.01 |
| b | Level \* education | 0.03 (0.26) .91 |
| b | Level \* height | 80.61 (11.32) <.01 |
| b | Level \* smoking | 0.39 (1.75) .82 |
| b | Level \* cardio | -5.58 (2.75) .04 |
| b | Level \* diabetes | -6.45 (2.28) <.01 |
| b | Slope \* age | -0.04 (0.04) .33 |
| b | Slope \* education | 0.10 (0.07) .16 |
| b | Slope \* height | -2.88 (3.59) .42 |
| b | Slope \* smoking | -0.09 (0.46) .84 |
| b | Slope \* cardio | 0.84 (0.66) .20 |
| b | Slope \* diabetes | 1.28 (0.52) .01 |
| a | Var (Level) | 0.26 (0.02) <.01 |
| a | Var (Slope) | 0.00 (0.00) .29 |
| a | Var (Residual) | 0.04 (0.01) <.01 |
| a | Covar (Level, Slope) | -0.00 (0.00) .19 |
| b | Var (Level) | 203.36 (19.15) <.01 |
| b | Var (Slope) | 3.46 (1.49) .02 |
| b | Var (Residual) | 32.55 (3.05) <.01 |
| b | Covar (Level, Slope) | -6.47 (3.30) .05 |
| ab | Covar (Levels) | 1.79 (0.50) <.01 |
| ab | Covar (Slopes) | -0.00 (0.03) .91 |
| ab | Covar (Residuals) | -0.02 (0.06) .78 |
|  | Correlation of Levels | 0.246 |
|  | Correlation of Slopes | -0.051 |
|  | Correlation of Residuals | -0.014 |
|  | N | 309 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -3,550 |
|  | AIC | 7,182 |
|  | BIC | 7,335 |

## Summary

Study = *MAP*; Gender = *male*; Process (a) = *fev*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.24 |
| Correlation of Levels | grip | 0.25 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | NaN |
| Correlation of Slopes | grip | -0.05 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.00 |
| Correlation of Residuals | grip | -0.01 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | gait | 0.01 |
| Covariance of Levels | grip | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | gait | 0.39 |
| Covariance of Slopes | grip | 0.91 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | gait | 0.90 |
| Covariance of Residuals | grip | 0.78 |

# gait : Available models

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

|  |  |  |
| --- | --- | --- |
| process\_a | process\_b | n\_models |
| gait | grip | 2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| map | female | aehplus | gait | grip | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| map | male | aehplus | gait | grip | 1 |

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *grip*

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | grip | mean(sd) |
| a | Level | 0.62 (0.02) <.01 | 0.62(NA) |
| a | Slope | 0.01 (0.01) .34 | 0.01(NA) |
| a | Level \* age | -0.01 (0.00) <.01 | -0.01(NA) |
| a | Level \* education | 0.01 (0.00) <.01 | 0.01(NA) |
| a | Level \* height | 0.23 (0.09) .01 | 0.23(NA) |
| a | Level \* smoking | -0.01 (0.01) .19 | -0.01(NA) |
| a | Level \* cardio | -0.00 (0.02) .85 | -0.00(NA) |
| a | Level \* diabetes | -0.07 (0.02) <.01 | -0.07(NA) |
| a | Slope \* age | -0.00 (0.00) <.01 | -0.00(NA) |
| a | Slope \* education | -0.00 (0.00) .01 | -0.00(NA) |
| a | Slope \* height | -0.01 (0.03) .68 | -0.01(NA) |
| a | Slope \* smoking | -0.00 (0.00) .36 | -0.00(NA) |
| a | Slope \* cardio | -0.00 (0.01) .46 | -0.00(NA) |
| a | Slope \* diabetes | 0.00 (0.01) .47 | 0.00(NA) |
| b | Level | 43.83 (1.25) <.01 | --- |
| b | Slope | -0.34 (0.31) .27 | --- |
| b | Level \* age | -0.61 (0.05) <.01 | --- |
| b | Level \* education | 0.40 (0.13) <.01 | --- |
| b | Level \* height | 39.14 (4.20) <.01 | --- |
| b | Level \* smoking | 0.39 (0.67) .56 | --- |
| b | Level \* cardio | 0.53 (1.41) .71 | --- |
| b | Level \* diabetes | -0.01 (1.23) .99 | --- |
| b | Slope \* age | -0.02 (0.01) .12 | --- |
| b | Slope \* education | -0.08 (0.03) .01 | --- |
| b | Slope \* height | -1.22 (1.18) .30 | --- |
| b | Slope \* smoking | 0.03 (0.17) .85 | --- |
| b | Slope \* cardio | 0.07 (0.29) .81 | --- |
| b | Slope \* diabetes | -0.32 (0.29) .27 | --- |
| a | Var (Level) | 0.02 (0.00) <.01 | 0.02(NA) |
| a | Var (Slope) | 0.00 (0.00) <.01 | 0.00(NA) |
| a | Var (Residual) | 0.02 (0.00) <.01 | 0.02(NA) |
| a | Covar (Level, Slope) | -0.00 (0.00) .12 | -0.00(NA) |
| b | Var (Level) | 94.52 (5.95) <.01 | --- |
| b | Var (Slope) | 0.74 (0.33) .02 | --- |
| b | Var (Residual) | 19.63 (1.07) <.01 | --- |
| b | Covar (Level, Slope) | -1.64 (1.08) .13 | --- |
| ab | Covar (Levels) | 0.41 (0.07) <.01 | --- |
| ab | Covar (Slopes) | -0.01 (0.01) .17 | --- |
| ab | Covar (Residuals) | -0.00 (0.02) .81 | --- |
|  | Correlation of Levels | 0.3011 | 0.30(NA) |
|  | Correlation of Slopes | -0.3664 | -0.37(NA) |
|  | Correlation of Residuals | -0.0067 | -0.01(NA) |
|  | N | 931 | 931.00(NA) |
|  | occasions | 5 | 5.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -7,767 | -7,767(NA) |
|  | AIC | 15,616 | 15,616(NA) |
|  | BIC | 15,814 | 15,814(NA) |

## grip

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 0.62 (0.02) <.01 |
| a | Slope | 0.01 (0.01) .34 |
| a | Level \* age | -0.01 (0.00) <.01 |
| a | Level \* education | 0.01 (0.00) <.01 |
| a | Level \* height | 0.23 (0.09) .01 |
| a | Level \* smoking | -0.01 (0.01) .19 |
| a | Level \* cardio | -0.00 (0.02) .85 |
| a | Level \* diabetes | -0.07 (0.02) <.01 |
| a | Slope \* age | -0.00 (0.00) <.01 |
| a | Slope \* education | -0.00 (0.00) .01 |
| a | Slope \* height | -0.01 (0.03) .68 |
| a | Slope \* smoking | -0.00 (0.00) .36 |
| a | Slope \* cardio | -0.00 (0.01) .46 |
| a | Slope \* diabetes | 0.00 (0.01) .47 |
| b | Level | 43.83 (1.25) <.01 |
| b | Slope | -0.34 (0.31) .27 |
| b | Level \* age | -0.61 (0.05) <.01 |
| b | Level \* education | 0.40 (0.13) <.01 |
| b | Level \* height | 39.14 (4.20) <.01 |
| b | Level \* smoking | 0.39 (0.67) .56 |
| b | Level \* cardio | 0.53 (1.41) .71 |
| b | Level \* diabetes | -0.01 (1.23) .99 |
| b | Slope \* age | -0.02 (0.01) .12 |
| b | Slope \* education | -0.08 (0.03) .01 |
| b | Slope \* height | -1.22 (1.18) .30 |
| b | Slope \* smoking | 0.03 (0.17) .85 |
| b | Slope \* cardio | 0.07 (0.29) .81 |
| b | Slope \* diabetes | -0.32 (0.29) .27 |
| a | Var (Level) | 0.02 (0.00) <.01 |
| a | Var (Slope) | 0.00 (0.00) <.01 |
| a | Var (Residual) | 0.02 (0.00) <.01 |
| a | Covar (Level, Slope) | -0.00 (0.00) .12 |
| b | Var (Level) | 94.52 (5.95) <.01 |
| b | Var (Slope) | 0.74 (0.33) .02 |
| b | Var (Residual) | 19.63 (1.07) <.01 |
| b | Covar (Level, Slope) | -1.64 (1.08) .13 |
| ab | Covar (Levels) | 0.41 (0.07) <.01 |
| ab | Covar (Slopes) | -0.01 (0.01) .17 |
| ab | Covar (Residuals) | -0.00 (0.02) .81 |
|  | Correlation of Levels | 0.3011 |
|  | Correlation of Slopes | -0.3664 |
|  | Correlation of Residuals | -0.0067 |
|  | N | 931 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -7,767 |
|  | AIC | 15,616 |
|  | BIC | 15,814 |

## Summary

Study = *MAP*; Gender = *female*; Process (a) = *gait*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | grip | 0.30 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | grip | -0.37 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | grip | -0.01 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | grip | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | grip | 0.17 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | grip | 0.81 |

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *grip*

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | grip | mean(sd) |
| a | Level | 0.66 (0.04) <.01 | 0.66(NA) |
| a | Slope | 0.00 (0.01) .90 | 0.00(NA) |
| a | Level \* age | -0.01 (0.00) <.01 | -0.01(NA) |
| a | Level \* education | 0.01 (0.00) <.01 | 0.01(NA) |
| a | Level \* height | 0.15 (0.15) .34 | 0.15(NA) |
| a | Level \* smoking | -0.01 (0.02) .42 | -0.01(NA) |
| a | Level \* cardio | -0.00 (0.03) .88 | -0.00(NA) |
| a | Level \* diabetes | -0.04 (0.02) .14 | -0.04(NA) |
| a | Slope \* age | -0.00 (0.00) .36 | -0.00(NA) |
| a | Slope \* education | -0.00 (0.00) .14 | -0.00(NA) |
| a | Slope \* height | 0.05 (0.05) .39 | 0.05(NA) |
| a | Slope \* smoking | -0.00 (0.01) .72 | -0.00(NA) |
| a | Slope \* cardio | -0.01 (0.01) .25 | -0.01(NA) |
| a | Slope \* diabetes | -0.00 (0.01) .91 | -0.00(NA) |
| b | Level | 79.80 (2.88) <.01 | --- |
| b | Slope | -2.48 (0.91) .01 | --- |
| b | Level \* age | -1.05 (0.13) <.01 | --- |
| b | Level \* education | 0.03 (0.26) .91 | --- |
| b | Level \* height | 80.71 (11.31) <.01 | --- |
| b | Level \* smoking | 0.40 (1.75) .82 | --- |
| b | Level \* cardio | -5.57 (2.75) .04 | --- |
| b | Level \* diabetes | -6.40 (2.29) <.01 | --- |
| b | Slope \* age | -0.04 (0.04) .35 | --- |
| b | Slope \* education | 0.09 (0.07) .16 | --- |
| b | Slope \* height | -2.61 (3.58) .47 | --- |
| b | Slope \* smoking | -0.11 (0.47) .81 | --- |
| b | Slope \* cardio | 0.87 (0.66) .19 | --- |
| b | Slope \* diabetes | 1.18 (0.51) .02 | --- |
| a | Var (Level) | 0.02 (0.00) <.01 | 0.02(NA) |
| a | Var (Slope) | 0.00 (0.00) .26 | 0.00(NA) |
| a | Var (Residual) | 0.02 (0.00) <.01 | 0.02(NA) |
| a | Covar (Level, Slope) | 0.00 (0.00) .87 | 0.00(NA) |
| b | Var (Level) | 203.96 (19.16) <.01 | --- |
| b | Var (Slope) | 3.45 (1.45) .02 | --- |
| b | Var (Residual) | 32.50 (3.02) <.01 | --- |
| b | Covar (Level, Slope) | -6.61 (3.25) .04 | --- |
| ab | Covar (Levels) | 0.60 (0.17) <.01 | --- |
| ab | Covar (Slopes) | 0.01 (0.01) .25 | --- |
| ab | Covar (Residuals) | 0.00 (0.05) .92 | --- |
|  | Correlation of Levels | 0.3043 | 0.30(NA) |
|  | Correlation of Slopes | Inf | Inf(NA) |
|  | Correlation of Residuals | 0.0058 | 0.01(NA) |
|  | N | 309 | 309.00(NA) |
|  | occasions | 5 | 5.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -2,966 | -2,966(NA) |
|  | AIC | 6,015 | 6,015(NA) |
|  | BIC | 6,168 | 6,168(NA) |

## grip

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 0.66 (0.04) <.01 |
| a | Slope | 0.00 (0.01) .90 |
| a | Level \* age | -0.01 (0.00) <.01 |
| a | Level \* education | 0.01 (0.00) <.01 |
| a | Level \* height | 0.15 (0.15) .34 |
| a | Level \* smoking | -0.01 (0.02) .42 |
| a | Level \* cardio | -0.00 (0.03) .88 |
| a | Level \* diabetes | -0.04 (0.02) .14 |
| a | Slope \* age | -0.00 (0.00) .36 |
| a | Slope \* education | -0.00 (0.00) .14 |
| a | Slope \* height | 0.05 (0.05) .39 |
| a | Slope \* smoking | -0.00 (0.01) .72 |
| a | Slope \* cardio | -0.01 (0.01) .25 |
| a | Slope \* diabetes | -0.00 (0.01) .91 |
| b | Level | 79.80 (2.88) <.01 |
| b | Slope | -2.48 (0.91) .01 |
| b | Level \* age | -1.05 (0.13) <.01 |
| b | Level \* education | 0.03 (0.26) .91 |
| b | Level \* height | 80.71 (11.31) <.01 |
| b | Level \* smoking | 0.40 (1.75) .82 |
| b | Level \* cardio | -5.57 (2.75) .04 |
| b | Level \* diabetes | -6.40 (2.29) <.01 |
| b | Slope \* age | -0.04 (0.04) .35 |
| b | Slope \* education | 0.09 (0.07) .16 |
| b | Slope \* height | -2.61 (3.58) .47 |
| b | Slope \* smoking | -0.11 (0.47) .81 |
| b | Slope \* cardio | 0.87 (0.66) .19 |
| b | Slope \* diabetes | 1.18 (0.51) .02 |
| a | Var (Level) | 0.02 (0.00) <.01 |
| a | Var (Slope) | 0.00 (0.00) .26 |
| a | Var (Residual) | 0.02 (0.00) <.01 |
| a | Covar (Level, Slope) | 0.00 (0.00) .87 |
| b | Var (Level) | 203.96 (19.16) <.01 |
| b | Var (Slope) | 3.45 (1.45) .02 |
| b | Var (Residual) | 32.50 (3.02) <.01 |
| b | Covar (Level, Slope) | -6.61 (3.25) .04 |
| ab | Covar (Levels) | 0.60 (0.17) <.01 |
| ab | Covar (Slopes) | 0.01 (0.01) .25 |
| ab | Covar (Residuals) | 0.00 (0.05) .92 |
|  | Correlation of Levels | 0.3043 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.0058 |
|  | N | 309 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -2,966 |
|  | AIC | 6,015 |
|  | BIC | 6,168 |

## Summary

Study = *MAP*; Gender = *male*; Process (a) = *gait*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | grip | 0.30 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | grip | Inf |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | grip | 0.01 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | grip | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | grip | 0.25 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | grip | 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] IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4 knitr\_1.14 ggplot2\_2.1.0   
[5] magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 munsell\_0.4.3 testit\_0.5 xtable\_1.8-2 lattice\_0.20-34 colorspace\_1.2-7  
 [7] R6\_2.2.0 stringr\_1.1.0 highr\_0.6 plyr\_1.8.4 dplyr\_0.5.0 tools\_3.3.1   
[13] DT\_0.2 grid\_3.3.1 gtable\_0.2.0 texreg\_1.36.7 coda\_0.18-1 DBI\_0.5-1   
[19] htmltools\_0.3.5 yaml\_2.1.13 lazyeval\_0.2.0 assertthat\_0.1 digest\_0.6.10 tibble\_1.2   
[25] formatR\_1.4 readr\_1.0.0 tidyr\_0.6.0 htmlwidgets\_0.7 rsconnect\_0.5 evaluate\_0.10   
[31] gsubfn\_0.6-6 rmarkdown\_1.1 stringi\_1.1.2 pander\_0.6.0 scales\_0.4.0 boot\_1.3-18   
[37] proto\_0.3-10