ELSA : Seed report

Date: 2016-10-21

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

# grip : Available models

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

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

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

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

# female

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | fev | gait | mean(sd) |
| a | Level | 20.54 (0.21) <.01 | 20.56 (0.21) <.01 | 20.55(0.02) |
| a | Slope | -0.41 (0.03) <.01 | -0.42 (0.03) <.01 | -0.41(0.00) |
| a | Level \* age | -0.22 (0.01) <.01 | -0.22 (0.01) <.01 | -0.22(0.00) |
| a | Level \* education | 1.02 (0.22) <.01 | 1.02 (0.22) <.01 | 1.02(0.00) |
| a | Level \* height | 0.22 (0.02) <.01 | 0.22 (0.02) <.01 | 0.22(0.00) |
| a | Level \* smoking | -0.13 (0.20) .51 | -0.15 (0.20) .46 | -0.14(0.01) |
| a | Level \* cardio | -1.72 (0.40) <.01 | -1.73 (0.40) <.01 | -1.72(0.00) |
| a | Level \* diabetes | -1.48 (0.46) <.01 | -1.49 (0.46) <.01 | -1.49(0.01) |
| a | Slope \* age | -0.01 (0.00) <.01 | -0.01 (0.00) <.01 | -0.01(0.00) |
| a | Slope \* education | -0.02 (0.03) .51 | -0.02 (0.03) .49 | -0.02(0.00) |
| a | Slope \* height | -0.00 (0.00) .04 | -0.00 (0.00) .04 | -0.00(0.00) |
| a | Slope \* smoking | -0.01 (0.02) .78 | -0.01 (0.02) .80 | -0.01(0.00) |
| a | Slope \* cardio | 0.08 (0.05) .12 | 0.08 (0.05) .11 | 0.08(0.00) |
| a | Slope \* diabetes | 0.02 (0.06) .70 | 0.02 (0.06) .70 | 0.02(0.00) |
| b | Level | 1.88 (0.02) <.01 | 0.84 (0.01) <.01 | --- |
| b | Slope | -0.03 (0.00) <.01 | -0.02 (0.00) <.01 | --- |
| b | Level \* age | -0.03 (0.00) <.01 | -0.01 (0.00) <.01 | --- |
| b | Level \* education | 0.10 (0.02) <.01 | 0.09 (0.01) <.01 | --- |
| b | Level \* height | 0.03 (0.00) <.01 | 0.01 (0.00) <.01 | --- |
| b | Level \* smoking | -0.10 (0.02) <.01 | -0.04 (0.01) <.01 | --- |
| b | Level \* cardio | -0.11 (0.04) <.01 | -0.08 (0.02) <.01 | --- |
| b | Level \* diabetes | -0.04 (0.04) .32 | -0.13 (0.03) <.01 | --- |
| b | Slope \* age | 0.00 (0.00) .54 | -0.00 (0.00) <.01 | --- |
| b | Slope \* education | 0.00 (0.00) .67 | 0.00 (0.00) .92 | --- |
| b | Slope \* height | -0.00 (0.00) .01 | 0.00 (0.00) .01 | --- |
| b | Slope \* smoking | -0.00 (0.00) .42 | 0.00 (0.00) .88 | --- |
| b | Slope \* cardio | 0.00 (0.01) .68 | -0.00 (0.00) .40 | --- |
| b | Slope \* diabetes | -0.00 (0.01) .61 | -0.00 (0.00) .88 | --- |
| a | Var (Level) | 18.64 (1.21) <.01 | 18.79 (1.15) <.01 | 18.71(0.10) |
| a | Var (Slope) | 0.03 (0.02) .10 | 0.03 (0.02) .04 | 0.03(0.00) |
| a | Var (Residual) | 8.64 (0.43) <.01 | 8.57 (0.40) <.01 | 8.61(0.05) |
| a | Covar (Level, Slope) | -0.22 (0.13) .09 | -0.24 (0.12) .04 | -0.23(0.01) |
| b | Var (Level) | 0.14 (0.02) <.01 | 0.04 (0.00) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .68 | 0.00 (0.00) <.01 | --- |
| b | Var (Residual) | 0.10 (0.01) <.01 | 0.02 (0.00) <.01 | --- |
| b | Covar (Level, Slope) | -0.00 (0.00) .70 | 0.00 (0.00) <.01 | --- |
| ab | Covar (Levels) | 0.40 (0.07) <.01 | 0.30 (0.03) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .22 | 0.00 (0.00) .04 | --- |
| ab | Covar (Residuals) | 0.01 (0.02) .57 | 0.03 (0.01) .01 | --- |
|  | Correlation of Levels | 0.246 | 0.365 | 0.31(0.08) |
|  | Correlation of Slopes | Inf | Inf | Inf(NaN) |
|  | Correlation of Residuals | 0.014 | 0.059 | 0.04(0.03) |
|  | N | 3,511 | 3,511 | 3511.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -26,236 | -21,131 | -2.368319e+04(3,610) |
|  | AIC | 52,553 | 42,343 | 4.744838e+04(7,220) |
|  | BIC | 52,806 | 42,596 | 4.770109e+04(7,220) |

## fev

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 20.54 (0.21) <.01 |
| a | Slope | -0.41 (0.03) <.01 |
| a | Level \* age | -0.22 (0.01) <.01 |
| a | Level \* education | 1.02 (0.22) <.01 |
| a | Level \* height | 0.22 (0.02) <.01 |
| a | Level \* smoking | -0.13 (0.20) .51 |
| a | Level \* cardio | -1.72 (0.40) <.01 |
| a | Level \* diabetes | -1.48 (0.46) <.01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.02 (0.03) .51 |
| a | Slope \* height | -0.00 (0.00) .04 |
| a | Slope \* smoking | -0.01 (0.02) .78 |
| a | Slope \* cardio | 0.08 (0.05) .12 |
| a | Slope \* diabetes | 0.02 (0.06) .70 |
| b | Level | 1.88 (0.02) <.01 |
| b | Slope | -0.03 (0.00) <.01 |
| b | Level \* age | -0.03 (0.00) <.01 |
| b | Level \* education | 0.10 (0.02) <.01 |
| b | Level \* height | 0.03 (0.00) <.01 |
| b | Level \* smoking | -0.10 (0.02) <.01 |
| b | Level \* cardio | -0.11 (0.04) <.01 |
| b | Level \* diabetes | -0.04 (0.04) .32 |
| b | Slope \* age | 0.00 (0.00) .54 |
| b | Slope \* education | 0.00 (0.00) .67 |
| b | Slope \* height | -0.00 (0.00) .01 |
| b | Slope \* smoking | -0.00 (0.00) .42 |
| b | Slope \* cardio | 0.00 (0.01) .68 |
| b | Slope \* diabetes | -0.00 (0.01) .61 |
| a | Var (Level) | 18.64 (1.21) <.01 |
| a | Var (Slope) | 0.03 (0.02) .10 |
| a | Var (Residual) | 8.64 (0.43) <.01 |
| a | Covar (Level, Slope) | -0.22 (0.13) .09 |
| b | Var (Level) | 0.14 (0.02) <.01 |
| b | Var (Slope) | 0.00 (0.00) .68 |
| b | Var (Residual) | 0.10 (0.01) <.01 |
| b | Covar (Level, Slope) | -0.00 (0.00) .70 |
| ab | Covar (Levels) | 0.40 (0.07) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .22 |
| ab | Covar (Residuals) | 0.01 (0.02) .57 |
|  | Correlation of Levels | 0.246 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.014 |
|  | N | 3,511 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -26,236 |
|  | AIC | 52,553 |
|  | BIC | 52,806 |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 20.56 (0.21) <.01 |
| a | Slope | -0.42 (0.03) <.01 |
| a | Level \* age | -0.22 (0.01) <.01 |
| a | Level \* education | 1.02 (0.22) <.01 |
| a | Level \* height | 0.22 (0.02) <.01 |
| a | Level \* smoking | -0.15 (0.20) .46 |
| a | Level \* cardio | -1.73 (0.40) <.01 |
| a | Level \* diabetes | -1.49 (0.46) <.01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.02 (0.03) .49 |
| a | Slope \* height | -0.00 (0.00) .04 |
| a | Slope \* smoking | -0.01 (0.02) .80 |
| a | Slope \* cardio | 0.08 (0.05) .11 |
| a | Slope \* diabetes | 0.02 (0.06) .70 |
| b | Level | 0.84 (0.01) <.01 |
| b | Slope | -0.02 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.09 (0.01) <.01 |
| b | Level \* height | 0.01 (0.00) <.01 |
| b | Level \* smoking | -0.04 (0.01) <.01 |
| b | Level \* cardio | -0.08 (0.02) <.01 |
| b | Level \* diabetes | -0.13 (0.03) <.01 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .92 |
| b | Slope \* height | 0.00 (0.00) .01 |
| b | Slope \* smoking | 0.00 (0.00) .88 |
| b | Slope \* cardio | -0.00 (0.00) .40 |
| b | Slope \* diabetes | -0.00 (0.00) .88 |
| a | Var (Level) | 18.79 (1.15) <.01 |
| a | Var (Slope) | 0.03 (0.02) .04 |
| a | Var (Residual) | 8.57 (0.40) <.01 |
| a | Covar (Level, Slope) | -0.24 (0.12) .04 |
| b | Var (Level) | 0.04 (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) <.01 |
| ab | Covar (Levels) | 0.30 (0.03) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .04 |
| ab | Covar (Residuals) | 0.03 (0.01) .01 |
|  | Correlation of Levels | 0.365 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.059 |
|  | N | 3,511 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -21,131 |
|  | AIC | 42,343 |
|  | BIC | 42,596 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | fev | 0.25 |
| Correlation of Levels | gait | 0.36 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | fev | 0.63 |
| Correlation of Slopes | gait | 0.50 |

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

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | fev | 0.00 |
| Correlation of Levels | gait | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | fev | 0.50 |
| Correlation of Slopes | gait | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | fev | 0.57 |
| Correlation of Residuals | gait | 0.00 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | fev | gait | mean(sd) |
| a | Level | 34.60 (0.40) <.01 | 34.62 (0.40) <.01 | 34.61(0.02) |
| a | Slope | -0.64 (0.05) <.01 | -0.65 (0.05) <.01 | -0.64(0.01) |
| a | Level \* age | -0.43 (0.02) <.01 | -0.43 (0.02) <.01 | -0.43(0.00) |
| a | Level \* education | 1.33 (0.35) <.01 | 1.34 (0.35) <.01 | 1.34(0.00) |
| a | Level \* height | 0.29 (0.02) <.01 | 0.29 (0.02) <.01 | 0.29(0.00) |
| a | Level \* smoking | -0.33 (0.34) .33 | -0.34 (0.34) .32 | -0.34(0.00) |
| a | Level \* cardio | 0.02 (0.45) .96 | 0.02 (0.45) .97 | 0.02(0.01) |
| a | Level \* diabetes | -1.58 (0.58) .01 | -1.58 (0.58) .01 | -1.58(0.00) |
| a | Slope \* age | -0.01 (0.00) <.01 | -0.01 (0.00) <.01 | -0.01(0.00) |
| a | Slope \* education | -0.04 (0.04) .35 | -0.04 (0.04) .30 | -0.04(0.00) |
| a | Slope \* height | 0.00 (0.00) .54 | 0.00 (0.00) .51 | 0.00(0.00) |
| a | Slope \* smoking | -0.01 (0.04) .71 | -0.01 (0.04) .75 | -0.01(0.00) |
| a | Slope \* cardio | -0.17 (0.06) <.01 | -0.16 (0.06) <.01 | -0.17(0.00) |
| a | Slope \* diabetes | -0.21 (0.07) <.01 | -0.21 (0.07) <.01 | -0.21(0.00) |
| b | Level | 2.62 (0.04) <.01 | 0.88 (0.01) <.01 | --- |
| b | Slope | -0.03 (0.01) <.01 | -0.02 (0.00) <.01 | --- |
| b | Level \* age | -0.03 (0.00) <.01 | -0.01 (0.00) <.01 | --- |
| b | Level \* education | 0.22 (0.04) <.01 | 0.10 (0.01) <.01 | --- |
| b | Level \* height | 0.03 (0.00) <.01 | 0.00 (0.00) <.01 | --- |
| b | Level \* smoking | -0.22 (0.03) <.01 | -0.04 (0.01) <.01 | --- |
| b | Level \* cardio | -0.20 (0.05) <.01 | -0.04 (0.02) .02 | --- |
| b | Level \* diabetes | -0.01 (0.06) .83 | -0.06 (0.02) <.01 | --- |
| b | Slope \* age | 0.00 (0.00) .16 | 0.00 (0.00) <.01 | --- |
| b | Slope \* education | -0.01 (0.00) .10 | 0.00 (0.00) .04 | --- |
| b | Slope \* height | 0.00 (0.00) .85 | 0.00 (0.00) .17 | --- |
| b | Slope \* smoking | 0.00 (0.00) .41 | 0.00 (0.00) .90 | --- |
| b | Slope \* cardio | 0.00 (0.01) .52 | -0.00 (0.00) .28 | --- |
| b | Slope \* diabetes | -0.02 (0.01) .01 | -0.00 (0.00) .72 | --- |
| a | Var (Level) | 39.85 (2.98) <.01 | 40.50 (2.99) <.01 | 40.17(0.46) |
| a | Var (Slope) | 0.05 (0.04) .23 | 0.07 (0.05) .12 | 0.06(0.01) |
| a | Var (Residual) | 18.41 (0.96) <.01 | 18.14 (0.94) <.01 | 18.28(0.19) |
| a | Covar (Level, Slope) | -0.58 (0.33) .08 | -0.66 (0.34) .05 | -0.62(0.06) |
| b | Var (Level) | 0.36 (0.04) <.01 | 0.04 (0.00) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .09 | 0.00 (0.00) .19 | --- |
| b | Var (Residual) | 0.19 (0.02) <.01 | 0.02 (0.00) <.01 | --- |
| b | Covar (Level, Slope) | -0.01 (0.00) .02 | -0.00 (0.00) .26 | --- |
| ab | Covar (Levels) | 0.71 (0.16) <.01 | 0.34 (0.07) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .14 | 0.00 (0.00) .15 | --- |
| ab | Covar (Residuals) | 0.02 (0.05) .61 | 0.01 (0.02) .43 | --- |
|  | Correlation of Levels | 0.187 | 0.277 | 0.23(0.06) |
|  | Correlation of Slopes | 0.408 | Inf | Inf(NaN) |
|  | Correlation of Residuals | 0.013 | 0.021 | 0.02(0.01) |
|  | N | 3,091 | 3,091 | 3091.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -27,840 | -21,282 | -2.456104e+04(4,637) |
|  | AIC | 55,762 | 42,646 | 4.920408e+04(9,275) |
|  | BIC | 56,010 | 42,893 | 4.945156e+04(9,275) |

## fev

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 34.60 (0.40) <.01 |
| a | Slope | -0.64 (0.05) <.01 |
| a | Level \* age | -0.43 (0.02) <.01 |
| a | Level \* education | 1.33 (0.35) <.01 |
| a | Level \* height | 0.29 (0.02) <.01 |
| a | Level \* smoking | -0.33 (0.34) .33 |
| a | Level \* cardio | 0.02 (0.45) .96 |
| a | Level \* diabetes | -1.58 (0.58) .01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.04 (0.04) .35 |
| a | Slope \* height | 0.00 (0.00) .54 |
| a | Slope \* smoking | -0.01 (0.04) .71 |
| a | Slope \* cardio | -0.17 (0.06) <.01 |
| a | Slope \* diabetes | -0.21 (0.07) <.01 |
| b | Level | 2.62 (0.04) <.01 |
| b | Slope | -0.03 (0.01) <.01 |
| b | Level \* age | -0.03 (0.00) <.01 |
| b | Level \* education | 0.22 (0.04) <.01 |
| b | Level \* height | 0.03 (0.00) <.01 |
| b | Level \* smoking | -0.22 (0.03) <.01 |
| b | Level \* cardio | -0.20 (0.05) <.01 |
| b | Level \* diabetes | -0.01 (0.06) .83 |
| b | Slope \* age | 0.00 (0.00) .16 |
| b | Slope \* education | -0.01 (0.00) .10 |
| b | Slope \* height | 0.00 (0.00) .85 |
| b | Slope \* smoking | 0.00 (0.00) .41 |
| b | Slope \* cardio | 0.00 (0.01) .52 |
| b | Slope \* diabetes | -0.02 (0.01) .01 |
| a | Var (Level) | 39.85 (2.98) <.01 |
| a | Var (Slope) | 0.05 (0.04) .23 |
| a | Var (Residual) | 18.41 (0.96) <.01 |
| a | Covar (Level, Slope) | -0.58 (0.33) .08 |
| b | Var (Level) | 0.36 (0.04) <.01 |
| b | Var (Slope) | 0.00 (0.00) .09 |
| b | Var (Residual) | 0.19 (0.02) <.01 |
| b | Covar (Level, Slope) | -0.01 (0.00) .02 |
| ab | Covar (Levels) | 0.71 (0.16) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .14 |
| ab | Covar (Residuals) | 0.02 (0.05) .61 |
|  | Correlation of Levels | 0.187 |
|  | Correlation of Slopes | 0.408 |
|  | Correlation of Residuals | 0.013 |
|  | N | 3,091 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -27,840 |
|  | AIC | 55,762 |
|  | BIC | 56,010 |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 34.62 (0.40) <.01 |
| a | Slope | -0.65 (0.05) <.01 |
| a | Level \* age | -0.43 (0.02) <.01 |
| a | Level \* education | 1.34 (0.35) <.01 |
| a | Level \* height | 0.29 (0.02) <.01 |
| a | Level \* smoking | -0.34 (0.34) .32 |
| a | Level \* cardio | 0.02 (0.45) .97 |
| a | Level \* diabetes | -1.58 (0.58) .01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.04 (0.04) .30 |
| a | Slope \* height | 0.00 (0.00) .51 |
| a | Slope \* smoking | -0.01 (0.04) .75 |
| a | Slope \* cardio | -0.16 (0.06) <.01 |
| a | Slope \* diabetes | -0.21 (0.07) <.01 |
| b | Level | 0.88 (0.01) <.01 |
| b | Slope | -0.02 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.10 (0.01) <.01 |
| b | Level \* height | 0.00 (0.00) <.01 |
| b | Level \* smoking | -0.04 (0.01) <.01 |
| b | Level \* cardio | -0.04 (0.02) .02 |
| b | Level \* diabetes | -0.06 (0.02) <.01 |
| b | Slope \* age | 0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .04 |
| b | Slope \* height | 0.00 (0.00) .17 |
| b | Slope \* smoking | 0.00 (0.00) .90 |
| b | Slope \* cardio | -0.00 (0.00) .28 |
| b | Slope \* diabetes | -0.00 (0.00) .72 |
| a | Var (Level) | 40.50 (2.99) <.01 |
| a | Var (Slope) | 0.07 (0.05) .12 |
| a | Var (Residual) | 18.14 (0.94) <.01 |
| a | Covar (Level, Slope) | -0.66 (0.34) .05 |
| b | Var (Level) | 0.04 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .19 |
| b | Var (Residual) | 0.02 (0.00) <.01 |
| b | Covar (Level, Slope) | -0.00 (0.00) .26 |
| ab | Covar (Levels) | 0.34 (0.07) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .15 |
| ab | Covar (Residuals) | 0.01 (0.02) .43 |
|  | Correlation of Levels | 0.277 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.021 |
|  | N | 3,091 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -21,282 |
|  | AIC | 42,646 |
|  | BIC | 42,893 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | fev | 0.19 |
| Correlation of Levels | gait | 0.28 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | fev | 0.42 |
| Correlation of Slopes | gait | 0.55 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | fev | 0.03 |
| Correlation of Residuals | gait | 0.03 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | fev | 0.00 |
| Correlation of Levels | gait | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | fev | 0.22 |
| Correlation of Slopes | gait | 0.18 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | fev | 0.61 |
| Correlation of Residuals | gait | 0.43 |

# fev : Available models

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

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

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

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

# female

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

Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning Inf

Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning -Inf

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 1.88 (0.02) <.01 | 1.88(NA) |
| a | Slope | -0.03 (0.00) <.01 | -0.03(NA) |
| a | Level \* age | -0.03 (0.00) <.01 | -0.03(NA) |
| a | Level \* education | 0.10 (0.02) <.01 | 0.10(NA) |
| a | Level \* height | 0.03 (0.00) <.01 | 0.03(NA) |
| a | Level \* smoking | -0.10 (0.02) <.01 | -0.10(NA) |
| a | Level \* cardio | -0.11 (0.04) <.01 | -0.11(NA) |
| a | Level \* diabetes | -0.05 (0.04) .31 | -0.05(NA) |
| a | Slope \* age | 0.00 (0.00) .41 | 0.00(NA) |
| a | Slope \* education | 0.00 (0.00) .64 | 0.00(NA) |
| a | Slope \* height | -0.00 (0.00) .02 | -0.00(NA) |
| a | Slope \* smoking | -0.00 (0.00) .40 | -0.00(NA) |
| a | Slope \* cardio | 0.00 (0.01) .66 | 0.00(NA) |
| a | Slope \* diabetes | -0.00 (0.01) .64 | -0.00(NA) |
| b | Level | 0.84 (0.01) <.01 | --- |
| b | Slope | -0.02 (0.00) <.01 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | --- |
| b | Level \* education | 0.09 (0.01) <.01 | --- |
| b | Level \* height | 0.01 (0.00) <.01 | --- |
| b | Level \* smoking | -0.04 (0.01) <.01 | --- |
| b | Level \* cardio | -0.08 (0.02) <.01 | --- |
| b | Level \* diabetes | -0.13 (0.03) <.01 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | --- |
| b | Slope \* education | 0.00 (0.00) .92 | --- |
| b | Slope \* height | 0.00 (0.00) .01 | --- |
| b | Slope \* smoking | 0.00 (0.00) .93 | --- |
| b | Slope \* cardio | -0.00 (0.00) .34 | --- |
| b | Slope \* diabetes | -0.00 (0.00) .85 | --- |
| a | Var (Level) | 0.14 (0.01) <.01 | 0.14(NA) |
| a | Var (Slope) | 0.00 (0.00) .42 | 0.00(NA) |
| a | Var (Residual) | 0.10 (0.01) <.01 | 0.10(NA) |
| a | Covar (Level, Slope) | -0.00 (0.00) .44 | -0.00(NA) |
| b | Var (Level) | 0.04 (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) <.01 | --- |
| ab | Covar (Levels) | 0.02 (0.00) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .46 | --- |
| ab | Covar (Residuals) | 0.00 (0.00) .45 | --- |
|  | Correlation of Levels | 0.219 | 0.22(NA) |
|  | Correlation of Slopes | NaN | --- |
|  | Correlation of Residuals | 0.021 | 0.02(NA) |
|  | N | 3,511 | 3511.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -3,368 | -3,368(NA) |
|  | AIC | 6,819 | 6,819(NA) |
|  | BIC | 7,071 | 7,071(NA) |

## gait

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

Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning Inf  
  
Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning -Inf

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 1.88 (0.02) <.01 |
| a | Slope | -0.03 (0.00) <.01 |
| a | Level \* age | -0.03 (0.00) <.01 |
| a | Level \* education | 0.10 (0.02) <.01 |
| a | Level \* height | 0.03 (0.00) <.01 |
| a | Level \* smoking | -0.10 (0.02) <.01 |
| a | Level \* cardio | -0.11 (0.04) <.01 |
| a | Level \* diabetes | -0.05 (0.04) .31 |
| a | Slope \* age | 0.00 (0.00) .41 |
| a | Slope \* education | 0.00 (0.00) .64 |
| a | Slope \* height | -0.00 (0.00) .02 |
| a | Slope \* smoking | -0.00 (0.00) .40 |
| a | Slope \* cardio | 0.00 (0.01) .66 |
| a | Slope \* diabetes | -0.00 (0.01) .64 |
| b | Level | 0.84 (0.01) <.01 |
| b | Slope | -0.02 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.09 (0.01) <.01 |
| b | Level \* height | 0.01 (0.00) <.01 |
| b | Level \* smoking | -0.04 (0.01) <.01 |
| b | Level \* cardio | -0.08 (0.02) <.01 |
| b | Level \* diabetes | -0.13 (0.03) <.01 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .92 |
| b | Slope \* height | 0.00 (0.00) .01 |
| b | Slope \* smoking | 0.00 (0.00) .93 |
| b | Slope \* cardio | -0.00 (0.00) .34 |
| b | Slope \* diabetes | -0.00 (0.00) .85 |
| a | Var (Level) | 0.14 (0.01) <.01 |
| a | Var (Slope) | 0.00 (0.00) .42 |
| a | Var (Residual) | 0.10 (0.01) <.01 |
| a | Covar (Level, Slope) | -0.00 (0.00) .44 |
| b | Var (Level) | 0.04 (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) <.01 |
| ab | Covar (Levels) | 0.02 (0.00) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .46 |
| ab | Covar (Residuals) | 0.00 (0.00) .45 |
|  | Correlation of Levels | 0.219 |
|  | Correlation of Slopes | NaN |
|  | Correlation of Residuals | 0.021 |
|  | N | 3,511 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -3,368 |
|  | AIC | 6,819 |
|  | BIC | 7,071 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.22 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.40 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.03 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.11 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.44 |

# male

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

Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning Inf  
  
Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning -Inf

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 2.62 (0.04) <.01 | 2.62(NA) |
| a | Slope | -0.03 (0.01) <.01 | -0.03(NA) |
| a | Level \* age | -0.03 (0.00) <.01 | -0.03(NA) |
| a | Level \* education | 0.22 (0.04) <.01 | 0.22(NA) |
| a | Level \* height | 0.03 (0.00) <.01 | 0.03(NA) |
| a | Level \* smoking | -0.22 (0.03) <.01 | -0.22(NA) |
| a | Level \* cardio | -0.21 (0.05) <.01 | -0.21(NA) |
| a | Level \* diabetes | -0.01 (0.06) .81 | -0.01(NA) |
| a | Slope \* age | 0.00 (0.00) .16 | 0.00(NA) |
| a | Slope \* education | -0.01 (0.00) .08 | -0.01(NA) |
| a | Slope \* height | 0.00 (0.00) .88 | 0.00(NA) |
| a | Slope \* smoking | 0.00 (0.00) .39 | 0.00(NA) |
| a | Slope \* cardio | 0.00 (0.01) .49 | 0.00(NA) |
| a | Slope \* diabetes | -0.02 (0.01) .01 | -0.02(NA) |
| b | Level | 0.88 (0.01) <.01 | --- |
| b | Slope | -0.02 (0.00) <.01 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | --- |
| b | Level \* education | 0.10 (0.01) <.01 | --- |
| b | Level \* height | 0.00 (0.00) <.01 | --- |
| b | Level \* smoking | -0.04 (0.01) <.01 | --- |
| b | Level \* cardio | -0.04 (0.02) .02 | --- |
| b | Level \* diabetes | -0.06 (0.02) <.01 | --- |
| b | Slope \* age | 0.00 (0.00) <.01 | --- |
| b | Slope \* education | 0.00 (0.00) .06 | --- |
| b | Slope \* height | 0.00 (0.00) .10 | --- |
| b | Slope \* smoking | 0.00 (0.00) .98 | --- |
| b | Slope \* cardio | -0.00 (0.00) .37 | --- |
| b | Slope \* diabetes | -0.00 (0.00) .79 | --- |
| a | Var (Level) | 0.36 (0.04) <.01 | 0.36(NA) |
| a | Var (Slope) | 0.00 (0.00) .07 | 0.00(NA) |
| a | Var (Residual) | 0.19 (0.02) <.01 | 0.19(NA) |
| a | Covar (Level, Slope) | -0.01 (0.00) .01 | -0.01(NA) |
| b | Var (Level) | 0.04 (0.00) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .20 | --- |
| b | Var (Residual) | 0.02 (0.00) <.01 | --- |
| b | Covar (Level, Slope) | -0.00 (0.00) .26 | --- |
| ab | Covar (Levels) | 0.03 (0.01) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .21 | --- |
| ab | Covar (Residuals) | 0.00 (0.00) .59 | --- |
|  | Correlation of Levels | 0.245 | 0.24(NA) |
|  | Correlation of Slopes | NaN | --- |
|  | Correlation of Residuals | 0.014 | 0.01(NA) |
|  | N | 3,091 | 3091.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -5,350 | -5,350(NA) |
|  | AIC | 10,781 | 10,781(NA) |
|  | BIC | 11,029 | 11,029(NA) |

## gait

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

Warning in FUN(newX[, i], ...): no non-missing arguments to min; returning Inf  
  
Warning in FUN(newX[, i], ...): no non-missing arguments to max; returning -Inf

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 2.62 (0.04) <.01 |
| a | Slope | -0.03 (0.01) <.01 |
| a | Level \* age | -0.03 (0.00) <.01 |
| a | Level \* education | 0.22 (0.04) <.01 |
| a | Level \* height | 0.03 (0.00) <.01 |
| a | Level \* smoking | -0.22 (0.03) <.01 |
| a | Level \* cardio | -0.21 (0.05) <.01 |
| a | Level \* diabetes | -0.01 (0.06) .81 |
| a | Slope \* age | 0.00 (0.00) .16 |
| a | Slope \* education | -0.01 (0.00) .08 |
| a | Slope \* height | 0.00 (0.00) .88 |
| a | Slope \* smoking | 0.00 (0.00) .39 |
| a | Slope \* cardio | 0.00 (0.01) .49 |
| a | Slope \* diabetes | -0.02 (0.01) .01 |
| b | Level | 0.88 (0.01) <.01 |
| b | Slope | -0.02 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.10 (0.01) <.01 |
| b | Level \* height | 0.00 (0.00) <.01 |
| b | Level \* smoking | -0.04 (0.01) <.01 |
| b | Level \* cardio | -0.04 (0.02) .02 |
| b | Level \* diabetes | -0.06 (0.02) <.01 |
| b | Slope \* age | 0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .06 |
| b | Slope \* height | 0.00 (0.00) .10 |
| b | Slope \* smoking | 0.00 (0.00) .98 |
| b | Slope \* cardio | -0.00 (0.00) .37 |
| b | Slope \* diabetes | -0.00 (0.00) .79 |
| a | Var (Level) | 0.36 (0.04) <.01 |
| a | Var (Slope) | 0.00 (0.00) .07 |
| a | Var (Residual) | 0.19 (0.02) <.01 |
| a | Covar (Level, Slope) | -0.01 (0.00) .01 |
| b | Var (Level) | 0.04 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .20 |
| b | Var (Residual) | 0.02 (0.00) <.01 |
| b | Covar (Level, Slope) | -0.00 (0.00) .26 |
| ab | Covar (Levels) | 0.03 (0.01) <.01 |
| ab | Covar (Slopes) | 0.00 (0.00) .21 |
| ab | Covar (Residuals) | 0.00 (0.00) .59 |
|  | Correlation of Levels | 0.245 |
|  | Correlation of Slopes | NaN |
|  | Correlation of Residuals | 0.014 |
|  | N | 3,091 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -5,350 |
|  | AIC | 10,781 |
|  | BIC | 11,029 |

## Summary

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

Computed correlations:

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

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.34 |

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

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.26 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.59 |

#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] grid stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] RColorBrewer\_1.1-2 dichromat\_2.0-0 extrafont\_0.17 rhdf5\_2.16.0   
[5] IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4 knitr\_1.14 ggplot2\_2.1.0   
[9] 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 zlibbioc\_1.18.0 tools\_3.3.1   
 [7] boot\_1.3-18 digest\_0.6.10 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34   
[13] texreg\_1.36.7 DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 Rttf2pt1\_1.3.4 coda\_0.18-1   
[19] dplyr\_0.5.0 stringr\_1.1.0 htmlwidgets\_0.7 DT\_0.2 R6\_2.2.0 rmarkdown\_1.1   
[25] gsubfn\_0.6-6 extrafontdb\_1.0 pander\_0.6.0 tidyr\_0.6.0 readr\_1.0.0 scales\_0.4.0   
[31] htmltools\_0.3.5 rsconnect\_0.5 assertthat\_0.1 testit\_0.5 colorspace\_1.2-7 xtable\_1.8-2   
[37] labeling\_0.3 stringi\_1.1.2 lazyeval\_0.2.0 munsell\_0.4.3