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

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

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

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

# female

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| a | Level | 19.41 (0.28) <.01 | 19.49 (0.29) <.01 | 19.45(0.06) |
| a | Slope | -0.28 (0.03) <.01 | -0.31 (0.04) <.01 | -0.30(0.02) |
| a | Level \* age | -0.30 (0.02) <.01 | -0.30 (0.02) <.01 | -0.30(0.00) |
| a | Level \* education | 0.09 (0.06) .13 | 0.09 (0.06) .11 | 0.09(0.00) |
| a | Level \* height | 0.17 (0.03) <.01 | 0.16 (0.03) <.01 | 0.17(0.00) |
| a | Level \* smoking | -0.60 (0.52) .24 | -0.61 (0.51) .23 | -0.61(0.01) |
| a | Level \* cardio | -0.34 (0.44) .44 | -0.41 (0.44) .36 | -0.37(0.05) |
| a | Level \* diabetes | -1.93 (0.76) .01 | -1.82 (0.75) .01 | -1.88(0.08) |
| a | Slope \* age | -0.01 (0.00) <.01 | -0.01 (0.00) <.01 | -0.01(0.00) |
| a | Slope \* education | -0.00 (0.00) .36 | -0.01 (0.00) .26 | -0.01(0.00) |
| a | Slope \* height | -0.00 (0.00) .26 | -0.00 (0.00) .40 | -0.00(0.00) |
| a | Slope \* smoking | -0.05 (0.05) .32 | -0.09 (0.05) .08 | -0.07(0.03) |
| a | Slope \* cardio | -0.02 (0.04) .54 | -0.02 (0.04) .66 | -0.02(0.00) |
| a | Slope \* diabetes | -0.05 (0.09) .54 | -0.08 (0.09) .41 | -0.06(0.02) |
| b | Level | 8.84 (0.26) <.01 | 346.09 (4.99) <.01 | --- |
| b | Slope | 0.44 (0.06) <.01 | -4.42 (0.57) <.01 | --- |
| b | Level \* age | 0.25 (0.03) <.01 | -5.23 (0.41) <.01 | --- |
| b | Level \* education | -0.08 (0.05) .12 | 2.13 (1.02) .04 | --- |
| b | Level \* height | 0.02 (0.03) .52 | 1.98 (0.46) <.01 | --- |
| b | Level \* smoking | 0.47 (0.36) .20 | -39.66 (8.22) <.01 | --- |
| b | Level \* cardio | 0.92 (0.46) .04 | -12.26 (8.53) .15 | --- |
| b | Level \* diabetes | 2.52 (0.96) .01 | 7.92 (13.14) .55 | --- |
| b | Slope \* age | 0.03 (0.01) <.01 | -0.08 (0.05) .09 | --- |
| b | Slope \* education | -0.00 (0.01) .60 | 0.00 (0.11) .99 | --- |
| b | Slope \* height | 0.01 (0.00) .06 | 0.01 (0.05) .81 | --- |
| b | Slope \* smoking | 0.07 (0.07) .34 | 0.11 (0.73) .88 | --- |
| b | Slope \* cardio | 0.06 (0.07) .39 | 0.30 (0.87) .73 | --- |
| b | Slope \* diabetes | 0.06 (0.18) .75 | -3.40 (1.70) .05 | --- |
| a | Var (Level) | 15.21 (1.96) <.01 | 14.55 (2.15) <.01 | 14.88(0.47) |
| a | Var (Slope) | 0.01 (0.02) .81 | 0.00 (0.04) .97 | 0.00(0.00) |
| a | Var (Residual) | 13.01 (0.69) <.01 | 14.43 (0.80) <.01 | 13.72(1.01) |
| a | Covar (Level, Slope) | -0.09 (0.19) .63 | -0.05 (0.25) .85 | -0.07(0.03) |
| b | Var (Level) | 8.79 (6.38) .17 | 4647.01 (390.63) <.01 | --- |
| b | Var (Slope) | 0.14 (0.08) .10 | 8.79 (3.97) .03 | --- |
| b | Var (Residual) | 17.46 (5.57) <.01 | 2100.13 (188.18) <.01 | --- |
| b | Covar (Level, Slope) | 0.58 (0.80) .47 | -55.81 (33.50) .10 | --- |
| ab | Covar (Levels) | -3.91 (1.27) <.01 | 76.86 (19.88) <.01 | --- |
| ab | Covar (Slopes) | -0.02 (0.02) .31 | 0.00 (0.22) .99 | --- |
| ab | Covar (Residuals) | 0.09 (0.40) .82 | 5.73 (7.32) .43 | --- |
|  | Correlation of Levels | -0.338 | 0.296 | -0.02(0.45) |
|  | Correlation of Slopes | -0.668 | 0.030 | -0.32(0.49) |
|  | Correlation of Residuals | 0.006 | 0.033 | 0.02(0.02) |
|  | N | 782 | 782 | 782.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -15,404 | -16,838 | -1.612071e+04(1,014) |
|  | AIC | 30,890 | 33,757 | 3.232342e+04(2,028) |
|  | BIC | 31,081 | 33,948 | 3.251456e+04(2,028) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 19.41 (0.28) <.01 |
| a | Slope | -0.28 (0.03) <.01 |
| a | Level \* age | -0.30 (0.02) <.01 |
| a | Level \* education | 0.09 (0.06) .13 |
| a | Level \* height | 0.17 (0.03) <.01 |
| a | Level \* smoking | -0.60 (0.52) .24 |
| a | Level \* cardio | -0.34 (0.44) .44 |
| a | Level \* diabetes | -1.93 (0.76) .01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.00 (0.00) .36 |
| a | Slope \* height | -0.00 (0.00) .26 |
| a | Slope \* smoking | -0.05 (0.05) .32 |
| a | Slope \* cardio | -0.02 (0.04) .54 |
| a | Slope \* diabetes | -0.05 (0.09) .54 |
| b | Level | 8.84 (0.26) <.01 |
| b | Slope | 0.44 (0.06) <.01 |
| b | Level \* age | 0.25 (0.03) <.01 |
| b | Level \* education | -0.08 (0.05) .12 |
| b | Level \* height | 0.02 (0.03) .52 |
| b | Level \* smoking | 0.47 (0.36) .20 |
| b | Level \* cardio | 0.92 (0.46) .04 |
| b | Level \* diabetes | 2.52 (0.96) .01 |
| b | Slope \* age | 0.03 (0.01) <.01 |
| b | Slope \* education | -0.00 (0.01) .60 |
| b | Slope \* height | 0.01 (0.00) .06 |
| b | Slope \* smoking | 0.07 (0.07) .34 |
| b | Slope \* cardio | 0.06 (0.07) .39 |
| b | Slope \* diabetes | 0.06 (0.18) .75 |
| a | Var (Level) | 15.21 (1.96) <.01 |
| a | Var (Slope) | 0.01 (0.02) .81 |
| a | Var (Residual) | 13.01 (0.69) <.01 |
| a | Covar (Level, Slope) | -0.09 (0.19) .63 |
| b | Var (Level) | 8.79 (6.38) .17 |
| b | Var (Slope) | 0.14 (0.08) .10 |
| b | Var (Residual) | 17.46 (5.57) <.01 |
| b | Covar (Level, Slope) | 0.58 (0.80) .47 |
| ab | Covar (Levels) | -3.91 (1.27) <.01 |
| ab | Covar (Slopes) | -0.02 (0.02) .31 |
| ab | Covar (Residuals) | 0.09 (0.40) .82 |
|  | Correlation of Levels | -0.338 |
|  | Correlation of Slopes | -0.668 |
|  | Correlation of Residuals | 0.006 |
|  | N | 782 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -15,404 |
|  | AIC | 30,890 |
|  | BIC | 31,081 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 19.49 (0.29) <.01 |
| a | Slope | -0.31 (0.04) <.01 |
| a | Level \* age | -0.30 (0.02) <.01 |
| a | Level \* education | 0.09 (0.06) .11 |
| a | Level \* height | 0.16 (0.03) <.01 |
| a | Level \* smoking | -0.61 (0.51) .23 |
| a | Level \* cardio | -0.41 (0.44) .36 |
| a | Level \* diabetes | -1.82 (0.75) .01 |
| a | Slope \* age | -0.01 (0.00) <.01 |
| a | Slope \* education | -0.01 (0.00) .26 |
| a | Slope \* height | -0.00 (0.00) .40 |
| a | Slope \* smoking | -0.09 (0.05) .08 |
| a | Slope \* cardio | -0.02 (0.04) .66 |
| a | Slope \* diabetes | -0.08 (0.09) .41 |
| b | Level | 346.09 (4.99) <.01 |
| b | Slope | -4.42 (0.57) <.01 |
| b | Level \* age | -5.23 (0.41) <.01 |
| b | Level \* education | 2.13 (1.02) .04 |
| b | Level \* height | 1.98 (0.46) <.01 |
| b | Level \* smoking | -39.66 (8.22) <.01 |
| b | Level \* cardio | -12.26 (8.53) .15 |
| b | Level \* diabetes | 7.92 (13.14) .55 |
| b | Slope \* age | -0.08 (0.05) .09 |
| b | Slope \* education | 0.00 (0.11) .99 |
| b | Slope \* height | 0.01 (0.05) .81 |
| b | Slope \* smoking | 0.11 (0.73) .88 |
| b | Slope \* cardio | 0.30 (0.87) .73 |
| b | Slope \* diabetes | -3.40 (1.70) .05 |
| a | Var (Level) | 14.55 (2.15) <.01 |
| a | Var (Slope) | 0.00 (0.04) .97 |
| a | Var (Residual) | 14.43 (0.80) <.01 |
| a | Covar (Level, Slope) | -0.05 (0.25) .85 |
| b | Var (Level) | 4647.01 (390.63) <.01 |
| b | Var (Slope) | 8.79 (3.97) .03 |
| b | Var (Residual) | 2100.13 (188.18) <.01 |
| b | Covar (Level, Slope) | -55.81 (33.50) .10 |
| ab | Covar (Levels) | 76.86 (19.88) <.01 |
| ab | Covar (Slopes) | 0.00 (0.22) .99 |
| ab | Covar (Residuals) | 5.73 (7.32) .43 |
|  | Correlation of Levels | 0.296 |
|  | Correlation of Slopes | 0.030 |
|  | Correlation of Residuals | 0.033 |
|  | N | 782 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -16,838 |
|  | AIC | 33,757 |
|  | BIC | 33,948 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | -0.34 |
| Correlation of Levels | pef | 0.30 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | -0.68 |
| Correlation of Slopes | pef | 0.03 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.03 |
| Correlation of Residuals | pef | 0.04 |

P-values for corresponding covariances:

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

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.67 |
| Correlation of Slopes | pef | 0.98 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.82 |
| Correlation of Residuals | pef | 0.43 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| a | Level | 34.11 (0.49) <.01 | 33.98 (0.48) <.01 | 34.04(0.09) |
| a | Slope | -0.68 (0.06) <.01 | -0.61 (0.06) <.01 | -0.64(0.05) |
| a | Level \* age | -0.46 (0.04) <.01 | -0.46 (0.04) <.01 | -0.46(0.00) |
| a | Level \* education | -0.09 (0.08) .26 | -0.08 (0.08) .34 | -0.09(0.01) |
| a | Level \* height | 0.22 (0.04) <.01 | 0.22 (0.04) <.01 | 0.22(0.00) |
| a | Level \* smoking | 0.20 (0.61) .74 | 0.38 (0.61) .53 | 0.29(0.13) |
| a | Level \* cardio | 0.35 (0.61) .56 | 0.38 (0.60) .53 | 0.37(0.02) |
| a | Level \* diabetes | -3.00 (1.42) .04 | -2.96 (1.43) .04 | -2.98(0.03) |
| a | Slope \* age | -0.04 (0.00) <.01 | -0.03 (0.00) <.01 | -0.04(0.00) |
| a | Slope \* education | 0.01 (0.01) .17 | 0.00 (0.01) .76 | 0.01(0.01) |
| a | Slope \* height | -0.00 (0.00) .49 | -0.00 (0.00) .70 | -0.00(0.00) |
| a | Slope \* smoking | -0.11 (0.06) .08 | -0.17 (0.06) <.01 | -0.14(0.05) |
| a | Slope \* cardio | -0.04 (0.07) .49 | -0.06 (0.06) .38 | -0.05(0.01) |
| a | Slope \* diabetes | -0.31 (0.12) .01 | -0.29 (0.13) .02 | -0.30(0.01) |
| b | Level | 8.19 (0.24) <.01 | 454.10 (7.13) <.01 | --- |
| b | Slope | 0.50 (0.26) .06 | -5.40 (0.76) <.01 | --- |
| b | Level \* age | 0.14 (0.02) <.01 | -7.60 (0.55) <.01 | --- |
| b | Level \* education | -0.13 (0.03) <.01 | 4.28 (1.24) <.01 | --- |
| b | Level \* height | -0.02 (0.02) .26 | 3.11 (0.56) <.01 | --- |
| b | Level \* smoking | 0.08 (0.29) .78 | -63.63 (9.06) <.01 | --- |
| b | Level \* cardio | 0.30 (0.27) .26 | -0.72 (9.09) .94 | --- |
| b | Level \* diabetes | 0.46 (0.48) .34 | -3.18 (16.81) .85 | --- |
| b | Slope \* age | 0.03 (0.01) <.01 | -0.04 (0.06) .48 | --- |
| b | Slope \* education | -0.01 (0.01) .41 | -0.04 (0.13) .74 | --- |
| b | Slope \* height | 0.00 (0.00) .66 | -0.03 (0.06) .60 | --- |
| b | Slope \* smoking | 0.07 (0.12) .56 | -0.73 (0.94) .44 | --- |
| b | Slope \* cardio | -0.01 (0.07) .83 | -1.91 (1.04) .07 | --- |
| b | Slope \* diabetes | 0.16 (0.21) .46 | -1.12 (2.83) .69 | --- |
| a | Var (Level) | 38.29 (3.58) <.01 | 38.35 (3.00) <.01 | 38.32(0.04) |
| a | Var (Slope) | 0.06 (0.04) .15 | 0.01 (0.00) <.01 | 0.04(0.04) |
| a | Var (Residual) | 20.95 (1.19) <.01 | 21.92 (1.25) <.01 | 21.43(0.68) |
| a | Covar (Level, Slope) | -0.10 (0.35) .78 | -0.08 (0.11) .46 | -0.09(0.01) |
| b | Var (Level) | 6.48 (2.92) .03 | 10662.27 (728.73) <.01 | --- |
| b | Var (Slope) | 0.26 (1.26) .83 | 28.82 (8.40) <.01 | --- |
| b | Var (Residual) | 9.59 (1.48) <.01 | 2473.38 (173.44) <.01 | --- |
| b | Covar (Level, Slope) | 1.28 (0.53) .01 | -99.17 (56.14) .08 | --- |
| ab | Covar (Levels) | -5.54 (2.73) .04 | 153.76 (29.38) <.01 | --- |
| ab | Covar (Slopes) | -0.10 (0.18) .59 | 0.29 (0.10) <.01 | --- |
| ab | Covar (Residuals) | -0.49 (0.59) .41 | -12.42 (7.99) .12 | --- |
|  | Correlation of Levels | -0.352 | 0.240 | -0.06(0.42) |
|  | Correlation of Slopes | -0.755 | 0.579 | -0.09(0.94) |
|  | Correlation of Residuals | -0.035 | -0.053 | -0.04(0.01) |
|  | N | 800 | 800 | 800.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -14,605 | -17,112 | -1.585828e+04(1,772) |
|  | AIC | 29,292 | 34,305 | 3.179856e+04(3,545) |
|  | BIC | 29,484 | 34,497 | 3.199063e+04(3,545) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 34.11 (0.49) <.01 |
| a | Slope | -0.68 (0.06) <.01 |
| a | Level \* age | -0.46 (0.04) <.01 |
| a | Level \* education | -0.09 (0.08) .26 |
| a | Level \* height | 0.22 (0.04) <.01 |
| a | Level \* smoking | 0.20 (0.61) .74 |
| a | Level \* cardio | 0.35 (0.61) .56 |
| a | Level \* diabetes | -3.00 (1.42) .04 |
| a | Slope \* age | -0.04 (0.00) <.01 |
| a | Slope \* education | 0.01 (0.01) .17 |
| a | Slope \* height | -0.00 (0.00) .49 |
| a | Slope \* smoking | -0.11 (0.06) .08 |
| a | Slope \* cardio | -0.04 (0.07) .49 |
| a | Slope \* diabetes | -0.31 (0.12) .01 |
| b | Level | 8.19 (0.24) <.01 |
| b | Slope | 0.50 (0.26) .06 |
| b | Level \* age | 0.14 (0.02) <.01 |
| b | Level \* education | -0.13 (0.03) <.01 |
| b | Level \* height | -0.02 (0.02) .26 |
| b | Level \* smoking | 0.08 (0.29) .78 |
| b | Level \* cardio | 0.30 (0.27) .26 |
| b | Level \* diabetes | 0.46 (0.48) .34 |
| b | Slope \* age | 0.03 (0.01) <.01 |
| b | Slope \* education | -0.01 (0.01) .41 |
| b | Slope \* height | 0.00 (0.00) .66 |
| b | Slope \* smoking | 0.07 (0.12) .56 |
| b | Slope \* cardio | -0.01 (0.07) .83 |
| b | Slope \* diabetes | 0.16 (0.21) .46 |
| a | Var (Level) | 38.29 (3.58) <.01 |
| a | Var (Slope) | 0.06 (0.04) .15 |
| a | Var (Residual) | 20.95 (1.19) <.01 |
| a | Covar (Level, Slope) | -0.10 (0.35) .78 |
| b | Var (Level) | 6.48 (2.92) .03 |
| b | Var (Slope) | 0.26 (1.26) .83 |
| b | Var (Residual) | 9.59 (1.48) <.01 |
| b | Covar (Level, Slope) | 1.28 (0.53) .01 |
| ab | Covar (Levels) | -5.54 (2.73) .04 |
| ab | Covar (Slopes) | -0.10 (0.18) .59 |
| ab | Covar (Residuals) | -0.49 (0.59) .41 |
|  | Correlation of Levels | -0.352 |
|  | Correlation of Slopes | -0.755 |
|  | Correlation of Residuals | -0.035 |
|  | N | 800 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -14,605 |
|  | AIC | 29,292 |
|  | BIC | 29,484 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 33.98 (0.48) <.01 |
| a | Slope | -0.61 (0.06) <.01 |
| a | Level \* age | -0.46 (0.04) <.01 |
| a | Level \* education | -0.08 (0.08) .34 |
| a | Level \* height | 0.22 (0.04) <.01 |
| a | Level \* smoking | 0.38 (0.61) .53 |
| a | Level \* cardio | 0.38 (0.60) .53 |
| a | Level \* diabetes | -2.96 (1.43) .04 |
| a | Slope \* age | -0.03 (0.00) <.01 |
| a | Slope \* education | 0.00 (0.01) .76 |
| a | Slope \* height | -0.00 (0.00) .70 |
| a | Slope \* smoking | -0.17 (0.06) <.01 |
| a | Slope \* cardio | -0.06 (0.06) .38 |
| a | Slope \* diabetes | -0.29 (0.13) .02 |
| b | Level | 454.10 (7.13) <.01 |
| b | Slope | -5.40 (0.76) <.01 |
| b | Level \* age | -7.60 (0.55) <.01 |
| b | Level \* education | 4.28 (1.24) <.01 |
| b | Level \* height | 3.11 (0.56) <.01 |
| b | Level \* smoking | -63.63 (9.06) <.01 |
| b | Level \* cardio | -0.72 (9.09) .94 |
| b | Level \* diabetes | -3.18 (16.81) .85 |
| b | Slope \* age | -0.04 (0.06) .48 |
| b | Slope \* education | -0.04 (0.13) .74 |
| b | Slope \* height | -0.03 (0.06) .60 |
| b | Slope \* smoking | -0.73 (0.94) .44 |
| b | Slope \* cardio | -1.91 (1.04) .07 |
| b | Slope \* diabetes | -1.12 (2.83) .69 |
| a | Var (Level) | 38.35 (3.00) <.01 |
| a | Var (Slope) | 0.01 (0.00) <.01 |
| a | Var (Residual) | 21.92 (1.25) <.01 |
| a | Covar (Level, Slope) | -0.08 (0.11) .46 |
| b | Var (Level) | 10662.27 (728.73) <.01 |
| b | Var (Slope) | 28.82 (8.40) <.01 |
| b | Var (Residual) | 2473.38 (173.44) <.01 |
| b | Covar (Level, Slope) | -99.17 (56.14) .08 |
| ab | Covar (Levels) | 153.76 (29.38) <.01 |
| ab | Covar (Slopes) | 0.29 (0.10) <.01 |
| ab | Covar (Residuals) | -12.42 (7.99) .12 |
|  | Correlation of Levels | 0.240 |
|  | Correlation of Slopes | 0.579 |
|  | Correlation of Residuals | -0.053 |
|  | N | 800 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -17,112 |
|  | AIC | 34,305 |
|  | BIC | 34,497 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | -0.35 |
| Correlation of Levels | pef | 0.24 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | -0.76 |
| Correlation of Slopes | pef | 0.57 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.04 |
| Correlation of Residuals | pef | 0.03 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.10 |
| Correlation of Levels | pef | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.12 |
| Correlation of Slopes | pef | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.42 |
| Correlation of Residuals | pef | 0.11 |

# pef : Available models

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

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

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

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

# female

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 351.97 (4.52) <.01 | 351.97(NA) |
| a | Slope | -3.77 (0.36) <.01 | -3.77(NA) |
| a | Level \* age | -4.50 (0.36) <.01 | -4.50(NA) |
| a | Level \* education | 3.08 (0.87) <.01 | 3.08(NA) |
| a | Level \* height | 2.53 (0.41) <.01 | 2.53(NA) |
| a | Level \* smoking | -30.64 (6.90) <.01 | -30.64(NA) |
| a | Level \* cardio | -12.35 (7.37) .09 | -12.35(NA) |
| a | Level \* diabetes | -3.86 (12.45) .76 | -3.86(NA) |
| a | Slope \* age | -0.14 (0.03) <.01 | -0.14(NA) |
| a | Slope \* education | -0.09 (0.06) .17 | -0.09(NA) |
| a | Slope \* height | -0.04 (0.03) .17 | -0.04(NA) |
| a | Slope \* smoking | -0.82 (0.47) .08 | -0.82(NA) |
| a | Slope \* cardio | 0.06 (0.52) .90 | 0.06(NA) |
| a | Slope \* diabetes | -0.89 (1.14) .43 | -0.89(NA) |
| b | Level | 7.72 (0.17) <.01 | --- |
| b | Slope | 0.45 (0.06) <.01 | --- |
| b | Level \* age | 0.13 (0.02) <.01 | --- |
| b | Level \* education | -0.05 (0.04) .17 | --- |
| b | Level \* height | -0.03 (0.02) .16 | --- |
| b | Level \* smoking | 0.32 (0.27) .23 | --- |
| b | Level \* cardio | 1.27 (0.34) <.01 | --- |
| b | Level \* diabetes | 1.74 (0.82) .03 | --- |
| b | Slope \* age | 0.04 (0.01) <.01 | --- |
| b | Slope \* education | -0.01 (0.01) .39 | --- |
| b | Slope \* height | 0.01 (0.00) .01 | --- |
| b | Slope \* smoking | 0.06 (0.06) .26 | --- |
| b | Slope \* cardio | -0.03 (0.07) .65 | --- |
| b | Slope \* diabetes | 0.18 (0.15) .23 | --- |
| a | Var (Level) | 3905.20 (273.76) <.01 | 3905.20(NA) |
| a | Var (Slope) | 1.26 (0.91) .17 | 1.26(NA) |
| a | Var (Residual) | 2094.66 (137.17) <.01 | 2094.66(NA) |
| a | Covar (Level, Slope) | 23.55 (13.59) .08 | 23.55(NA) |
| b | Var (Level) | 1.96 (1.57) .21 | --- |
| b | Var (Slope) | 0.32 (0.19) .09 | --- |
| b | Var (Residual) | 13.33 (2.51) <.01 | --- |
| b | Covar (Level, Slope) | 0.56 (0.46) .22 | --- |
| ab | Covar (Levels) | -19.83 (9.76) .04 | --- |
| ab | Covar (Slopes) | -0.16 (0.13) .24 | --- |
| ab | Covar (Residuals) | -3.88 (4.68) .41 | --- |
|  | Correlation of Levels | -0.227 | -0.23(NA) |
|  | Correlation of Slopes | -0.246 | -0.25(NA) |
|  | Correlation of Residuals | -0.023 | -0.02(NA) |
|  | N | 782 | 782.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -24,499 | -2.449899e+04(NA) |
|  | AIC | 49,080 | 4.907998e+04(NA) |
|  | BIC | 49,271 | 4.927112e+04(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 351.97 (4.52) <.01 |
| a | Slope | -3.77 (0.36) <.01 |
| a | Level \* age | -4.50 (0.36) <.01 |
| a | Level \* education | 3.08 (0.87) <.01 |
| a | Level \* height | 2.53 (0.41) <.01 |
| a | Level \* smoking | -30.64 (6.90) <.01 |
| a | Level \* cardio | -12.35 (7.37) .09 |
| a | Level \* diabetes | -3.86 (12.45) .76 |
| a | Slope \* age | -0.14 (0.03) <.01 |
| a | Slope \* education | -0.09 (0.06) .17 |
| a | Slope \* height | -0.04 (0.03) .17 |
| a | Slope \* smoking | -0.82 (0.47) .08 |
| a | Slope \* cardio | 0.06 (0.52) .90 |
| a | Slope \* diabetes | -0.89 (1.14) .43 |
| b | Level | 7.72 (0.17) <.01 |
| b | Slope | 0.45 (0.06) <.01 |
| b | Level \* age | 0.13 (0.02) <.01 |
| b | Level \* education | -0.05 (0.04) .17 |
| b | Level \* height | -0.03 (0.02) .16 |
| b | Level \* smoking | 0.32 (0.27) .23 |
| b | Level \* cardio | 1.27 (0.34) <.01 |
| b | Level \* diabetes | 1.74 (0.82) .03 |
| b | Slope \* age | 0.04 (0.01) <.01 |
| b | Slope \* education | -0.01 (0.01) .39 |
| b | Slope \* height | 0.01 (0.00) .01 |
| b | Slope \* smoking | 0.06 (0.06) .26 |
| b | Slope \* cardio | -0.03 (0.07) .65 |
| b | Slope \* diabetes | 0.18 (0.15) .23 |
| a | Var (Level) | 3905.20 (273.76) <.01 |
| a | Var (Slope) | 1.26 (0.91) .17 |
| a | Var (Residual) | 2094.66 (137.17) <.01 |
| a | Covar (Level, Slope) | 23.55 (13.59) .08 |
| b | Var (Level) | 1.96 (1.57) .21 |
| b | Var (Slope) | 0.32 (0.19) .09 |
| b | Var (Residual) | 13.33 (2.51) <.01 |
| b | Covar (Level, Slope) | 0.56 (0.46) .22 |
| ab | Covar (Levels) | -19.83 (9.76) .04 |
| ab | Covar (Slopes) | -0.16 (0.13) .24 |
| ab | Covar (Residuals) | -3.88 (4.68) .41 |
|  | Correlation of Levels | -0.227 |
|  | Correlation of Slopes | -0.246 |
|  | Correlation of Residuals | -0.023 |
|  | N | 782 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -24,499 |
|  | AIC | 49,080 |
|  | BIC | 49,271 |

## Summary

Study = *LASA*; Gender = *female*; Process (a) = *pef*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | -0.23 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | -0.25 |

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

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.09 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.21 |

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

# male

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 468.60 (6.54) <.01 | 468.60(NA) |
| a | Slope | -5.39 (0.55) <.01 | -5.39(NA) |
| a | Level \* age | -6.52 (0.47) <.01 | -6.52(NA) |
| a | Level \* education | 4.46 (1.11) <.01 | 4.46(NA) |
| a | Level \* height | 3.17 (0.50) <.01 | 3.17(NA) |
| a | Level \* smoking | -53.24 (7.92) <.01 | -53.24(NA) |
| a | Level \* cardio | -0.58 (8.44) .94 | -0.58(NA) |
| a | Level \* diabetes | 1.34 (14.31) .92 | 1.34(NA) |
| a | Slope \* age | -0.16 (0.04) <.01 | -0.16(NA) |
| a | Slope \* education | -0.06 (0.09) .52 | -0.06(NA) |
| a | Slope \* height | -0.02 (0.04) .56 | -0.02(NA) |
| a | Slope \* smoking | -1.76 (0.62) <.01 | -1.76(NA) |
| a | Slope \* cardio | -1.38 (0.69) .04 | -1.38(NA) |
| a | Slope \* diabetes | -1.58 (1.47) .28 | -1.58(NA) |
| b | Level | 7.21 (0.14) <.01 | --- |
| b | Slope | 0.41 (0.05) <.01 | --- |
| b | Level \* age | 0.08 (0.01) <.01 | --- |
| b | Level \* education | -0.07 (0.02) .01 | --- |
| b | Level \* height | -0.02 (0.01) .11 | --- |
| b | Level \* smoking | 0.08 (0.20) .68 | --- |
| b | Level \* cardio | 0.29 (0.21) .17 | --- |
| b | Level \* diabetes | 0.46 (0.37) .21 | --- |
| b | Slope \* age | 0.02 (0.00) <.01 | --- |
| b | Slope \* education | -0.01 (0.00) .01 | --- |
| b | Slope \* height | 0.00 (0.00) .74 | --- |
| b | Slope \* smoking | 0.03 (0.05) .55 | --- |
| b | Slope \* cardio | -0.02 (0.05) .72 | --- |
| b | Slope \* diabetes | 0.03 (0.11) .77 | --- |
| a | Var (Level) | 9154.71 (603.18) <.01 | 9154.71(NA) |
| a | Var (Slope) | 15.63 (3.40) <.01 | 15.63(NA) |
| a | Var (Residual) | 2620.98 (155.42) <.01 | 2620.98(NA) |
| a | Covar (Level, Slope) | 23.50 (32.77) .47 | 23.50(NA) |
| b | Var (Level) | 1.42 (0.40) <.01 | --- |
| b | Var (Slope) | 0.24 (0.13) .06 | --- |
| b | Var (Residual) | 9.36 (2.23) <.01 | --- |
| b | Covar (Level, Slope) | 0.53 (0.23) .02 | --- |
| ab | Covar (Levels) | -40.60 (5.66) <.01 | --- |
| ab | Covar (Slopes) | -0.78 (0.33) .02 | --- |
| ab | Covar (Residuals) | -4.31 (4.73) .36 | --- |
|  | Correlation of Levels | -0.356 | -0.36(NA) |
|  | Correlation of Slopes | -0.401 | -0.40(NA) |
|  | Correlation of Residuals | -0.028 | -0.03(NA) |
|  | N | 800 | 800.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -23,890 | -2.389024e+04(NA) |
|  | AIC | 47,862 | 4.786249e+04(NA) |
|  | BIC | 48,055 | 4.805456e+04(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 468.60 (6.54) <.01 |
| a | Slope | -5.39 (0.55) <.01 |
| a | Level \* age | -6.52 (0.47) <.01 |
| a | Level \* education | 4.46 (1.11) <.01 |
| a | Level \* height | 3.17 (0.50) <.01 |
| a | Level \* smoking | -53.24 (7.92) <.01 |
| a | Level \* cardio | -0.58 (8.44) .94 |
| a | Level \* diabetes | 1.34 (14.31) .92 |
| a | Slope \* age | -0.16 (0.04) <.01 |
| a | Slope \* education | -0.06 (0.09) .52 |
| a | Slope \* height | -0.02 (0.04) .56 |
| a | Slope \* smoking | -1.76 (0.62) <.01 |
| a | Slope \* cardio | -1.38 (0.69) .04 |
| a | Slope \* diabetes | -1.58 (1.47) .28 |
| b | Level | 7.21 (0.14) <.01 |
| b | Slope | 0.41 (0.05) <.01 |
| b | Level \* age | 0.08 (0.01) <.01 |
| b | Level \* education | -0.07 (0.02) .01 |
| b | Level \* height | -0.02 (0.01) .11 |
| b | Level \* smoking | 0.08 (0.20) .68 |
| b | Level \* cardio | 0.29 (0.21) .17 |
| b | Level \* diabetes | 0.46 (0.37) .21 |
| b | Slope \* age | 0.02 (0.00) <.01 |
| b | Slope \* education | -0.01 (0.00) .01 |
| b | Slope \* height | 0.00 (0.00) .74 |
| b | Slope \* smoking | 0.03 (0.05) .55 |
| b | Slope \* cardio | -0.02 (0.05) .72 |
| b | Slope \* diabetes | 0.03 (0.11) .77 |
| a | Var (Level) | 9154.71 (603.18) <.01 |
| a | Var (Slope) | 15.63 (3.40) <.01 |
| a | Var (Residual) | 2620.98 (155.42) <.01 |
| a | Covar (Level, Slope) | 23.50 (32.77) .47 |
| b | Var (Level) | 1.42 (0.40) <.01 |
| b | Var (Slope) | 0.24 (0.13) .06 |
| b | Var (Residual) | 9.36 (2.23) <.01 |
| b | Covar (Level, Slope) | 0.53 (0.23) .02 |
| ab | Covar (Levels) | -40.60 (5.66) <.01 |
| ab | Covar (Slopes) | -0.78 (0.33) .02 |
| ab | Covar (Residuals) | -4.31 (4.73) .36 |
|  | Correlation of Levels | -0.356 |
|  | Correlation of Slopes | -0.401 |
|  | Correlation of Residuals | -0.028 |
|  | N | 800 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -23,890 |
|  | AIC | 47,862 |
|  | BIC | 48,055 |

## Summary

Study = *LASA*; Gender = *male*; Process (a) = *pef*

Computed correlations:

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

|  |  |  |
| --- | --- | --- |
| 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 | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.37 |

#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