EAS : Seed report

Date: 2016-10-21

Table of Contents

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

# grip : Available models

Study **EAS** 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 |
| eas | female | aehplus | grip | gait | 1 |
| eas | female | aehplus | grip | pef | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| eas | male | aehplus | grip | gait | 1 |
| eas | 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 | 18.51 (1.61) <.01 | 342.90 (26.27) <.01 | 180.70(229.38) |
| a | Slope | -2.29 (0.47) <.01 | -27.84 (7.34) <.01 | -15.06(18.07) |
| a | Level \* age | 0.07 (0.13) .59 | -4.28 (2.00) .03 | -2.10(3.07) |
| a | Level \* education | -0.14 (0.16) .40 | -1.86 (2.91) .52 | -1.00(1.22) |
| a | Level \* height | 0.22 (0.07) <.01 | 0.40 (1.28) .76 | 0.31(0.13) |
| a | Level \* smoking | 0.97 (0.88) .27 | -0.58 (17.41) .97 | 0.19(1.10) |
| a | Level \* cardio | 0.29 (2.46) .91 | -22.73 (27.30) .40 | -11.22(16.28) |
| a | Level \* diabetes | -2.25 (1.60) .16 | -25.82 (24.75) .30 | -14.04(16.66) |
| a | Slope \* age | -0.07 (0.03) .03 | 0.19 (0.55) .74 | 0.06(0.18) |
| a | Slope \* education | 0.10 (0.04) .03 | 0.55 (0.85) .51 | 0.33(0.32) |
| a | Slope \* height | -0.01 (0.02) .62 | 0.64 (0.37) .09 | 0.31(0.46) |
| a | Slope \* smoking | -0.02 (0.34) .96 | 1.96 (4.37) .65 | 0.97(1.40) |
| a | Slope \* cardio | 0.29 (0.59) .62 | 3.03 (10.01) .76 | 1.66(1.94) |
| a | Slope \* diabetes | 0.25 (0.32) .44 | -0.66 (8.73) .94 | -0.20(0.64) |
| b | Level | 109.59 (8.23) <.01 | 18.66 (1.64) <.01 | --- |
| b | Slope | -3.19 (2.55) .21 | -2.32 (0.50) <.01 | --- |
| b | Level \* age | -1.51 (0.47) <.01 | 0.06 (0.12) .60 | --- |
| b | Level \* education | 0.29 (0.86) .73 | -0.15 (0.16) .32 | --- |
| b | Level \* height | 0.05 (0.33) .87 | 0.21 (0.08) <.01 | --- |
| b | Level \* smoking | 3.15 (4.09) .44 | 0.96 (1.11) .39 | --- |
| b | Level \* cardio | -4.26 (6.99) .54 | 0.09 (2.73) .97 | --- |
| b | Level \* diabetes | -18.34 (5.85) <.01 | -2.27 (1.68) .17 | --- |
| b | Slope \* age | -0.07 (0.13) .59 | -0.06 (0.03) .05 | --- |
| b | Slope \* education | 0.11 (0.29) .70 | 0.10 (0.05) .03 | --- |
| b | Slope \* height | 0.06 (0.08) .47 | -0.01 (0.02) .56 | --- |
| b | Slope \* smoking | -0.33 (1.30) .80 | -0.02 (0.32) .95 | --- |
| b | Slope \* cardio | -0.15 (1.95) .94 | 0.29 (0.61) .63 | --- |
| b | Slope \* diabetes | 0.50 (2.24) .82 | 0.21 (0.34) .53 | --- |
| a | Var (Level) | 25.14 (5.30) <.01 | 4698.59 (1151.56) <.01 | 2361.87(3304.62) |
| a | Var (Slope) | 0.23 (0.23) .33 | 59.97 (45.73) .19 | 30.10(42.24) |
| a | Var (Residual) | 5.79 (0.52) <.01 | 1642.54 (106.77) <.01 | 824.17(1157.35) |
| a | Covar (Level, Slope) | -1.38 (1.16) .23 | -343.08 (186.70) .07 | -172.23(241.62) |
| b | Var (Level) | 343.99 (79.40) <.01 | 24.96 (5.37) <.01 | --- |
| b | Var (Slope) | 6.37 (3.90) .10 | 0.23 (0.23) .31 | --- |
| b | Var (Residual) | 60.52 (8.03) <.01 | 5.78 (0.52) <.01 | --- |
| b | Covar (Level, Slope) | -13.23 (17.91) .46 | -1.33 (1.22) .28 | --- |
| ab | Covar (Levels) | 16.31 (16.92) .34 | 98.73 (59.72) .10 | --- |
| ab | Covar (Slopes) | 0.46 (0.74) .53 | 0.12 (2.96) .97 | --- |
| ab | Covar (Residuals) | 0.51 (1.84) .78 | 11.15 (9.83) .26 | --- |
|  | Correlation of Levels | 0.175 | 0.288 | 0.23(0.08) |
|  | Correlation of Slopes | 0.381 | 0.034 | 0.21(0.25) |
|  | Correlation of Residuals | 0.027 | 0.114 | 0.07(0.06) |
|  | N | 147 | 150 | 148.50(2.12) |
|  | occasions | 7 | 7 | 7.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -2,650 | -3,583 | -3,116( 659) |
|  | AIC | 5,383 | 7,247 | 6,315(1,319) |
|  | BIC | 5,505 | 7,371 | 6,438(1,319) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 18.51 (1.61) <.01 |
| a | Slope | -2.29 (0.47) <.01 |
| a | Level \* age | 0.07 (0.13) .59 |
| a | Level \* education | -0.14 (0.16) .40 |
| a | Level \* height | 0.22 (0.07) <.01 |
| a | Level \* smoking | 0.97 (0.88) .27 |
| a | Level \* cardio | 0.29 (2.46) .91 |
| a | Level \* diabetes | -2.25 (1.60) .16 |
| a | Slope \* age | -0.07 (0.03) .03 |
| a | Slope \* education | 0.10 (0.04) .03 |
| a | Slope \* height | -0.01 (0.02) .62 |
| a | Slope \* smoking | -0.02 (0.34) .96 |
| a | Slope \* cardio | 0.29 (0.59) .62 |
| a | Slope \* diabetes | 0.25 (0.32) .44 |
| b | Level | 109.59 (8.23) <.01 |
| b | Slope | -3.19 (2.55) .21 |
| b | Level \* age | -1.51 (0.47) <.01 |
| b | Level \* education | 0.29 (0.86) .73 |
| b | Level \* height | 0.05 (0.33) .87 |
| b | Level \* smoking | 3.15 (4.09) .44 |
| b | Level \* cardio | -4.26 (6.99) .54 |
| b | Level \* diabetes | -18.34 (5.85) <.01 |
| b | Slope \* age | -0.07 (0.13) .59 |
| b | Slope \* education | 0.11 (0.29) .70 |
| b | Slope \* height | 0.06 (0.08) .47 |
| b | Slope \* smoking | -0.33 (1.30) .80 |
| b | Slope \* cardio | -0.15 (1.95) .94 |
| b | Slope \* diabetes | 0.50 (2.24) .82 |
| a | Var (Level) | 25.14 (5.30) <.01 |
| a | Var (Slope) | 0.23 (0.23) .33 |
| a | Var (Residual) | 5.79 (0.52) <.01 |
| a | Covar (Level, Slope) | -1.38 (1.16) .23 |
| b | Var (Level) | 343.99 (79.40) <.01 |
| b | Var (Slope) | 6.37 (3.90) .10 |
| b | Var (Residual) | 60.52 (8.03) <.01 |
| b | Covar (Level, Slope) | -13.23 (17.91) .46 |
| ab | Covar (Levels) | 16.31 (16.92) .34 |
| ab | Covar (Slopes) | 0.46 (0.74) .53 |
| ab | Covar (Residuals) | 0.51 (1.84) .78 |
|  | Correlation of Levels | 0.175 |
|  | Correlation of Slopes | 0.381 |
|  | Correlation of Residuals | 0.027 |
|  | N | 147 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -2,650 |
|  | AIC | 5,383 |
|  | BIC | 5,505 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 342.90 (26.27) <.01 |
| a | Slope | -27.84 (7.34) <.01 |
| a | Level \* age | -4.28 (2.00) .03 |
| a | Level \* education | -1.86 (2.91) .52 |
| a | Level \* height | 0.40 (1.28) .76 |
| a | Level \* smoking | -0.58 (17.41) .97 |
| a | Level \* cardio | -22.73 (27.30) .40 |
| a | Level \* diabetes | -25.82 (24.75) .30 |
| a | Slope \* age | 0.19 (0.55) .74 |
| a | Slope \* education | 0.55 (0.85) .51 |
| a | Slope \* height | 0.64 (0.37) .09 |
| a | Slope \* smoking | 1.96 (4.37) .65 |
| a | Slope \* cardio | 3.03 (10.01) .76 |
| a | Slope \* diabetes | -0.66 (8.73) .94 |
| b | Level | 18.66 (1.64) <.01 |
| b | Slope | -2.32 (0.50) <.01 |
| b | Level \* age | 0.06 (0.12) .60 |
| b | Level \* education | -0.15 (0.16) .32 |
| b | Level \* height | 0.21 (0.08) <.01 |
| b | Level \* smoking | 0.96 (1.11) .39 |
| b | Level \* cardio | 0.09 (2.73) .97 |
| b | Level \* diabetes | -2.27 (1.68) .17 |
| b | Slope \* age | -0.06 (0.03) .05 |
| b | Slope \* education | 0.10 (0.05) .03 |
| b | Slope \* height | -0.01 (0.02) .56 |
| b | Slope \* smoking | -0.02 (0.32) .95 |
| b | Slope \* cardio | 0.29 (0.61) .63 |
| b | Slope \* diabetes | 0.21 (0.34) .53 |
| a | Var (Level) | 4698.59 (1151.56) <.01 |
| a | Var (Slope) | 59.97 (45.73) .19 |
| a | Var (Residual) | 1642.54 (106.77) <.01 |
| a | Covar (Level, Slope) | -343.08 (186.70) .07 |
| b | Var (Level) | 24.96 (5.37) <.01 |
| b | Var (Slope) | 0.23 (0.23) .31 |
| b | Var (Residual) | 5.78 (0.52) <.01 |
| b | Covar (Level, Slope) | -1.33 (1.22) .28 |
| ab | Covar (Levels) | 98.73 (59.72) .10 |
| ab | Covar (Slopes) | 0.12 (2.96) .97 |
| ab | Covar (Residuals) | 11.15 (9.83) .26 |
|  | Correlation of Levels | 0.288 |
|  | Correlation of Slopes | 0.034 |
|  | Correlation of Residuals | 0.114 |
|  | N | 150 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -3,583 |
|  | AIC | 7,247 |
|  | BIC | 7,371 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.17 |
| Correlation of Levels | pef | 0.29 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.38 |
| Correlation of Slopes | pef | 0.03 |

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

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.31 |
| Correlation of Levels | pef | 0.05 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.44 |
| Correlation of Slopes | pef | 0.97 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.78 |
| Correlation of Residuals | pef | 0.26 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| a | Level | 33.77 (7.42) <.01 | 403.73 (136.72) <.01 | 218.75(261.60) |
| a | Slope | -2.42 (2.72) .37 | -27.65 (46.58) .55 | -15.03(17.84) |
| a | Level \* age | -0.55 (0.33) .09 | -5.44 (7.00) .44 | -2.99(3.46) |
| a | Level \* education | -0.26 (0.48) .60 | 5.68 (10.55) .59 | 2.71(4.20) |
| a | Level \* height | 0.21 (0.24) .37 | 3.06 (3.51) .38 | 1.63(2.01) |
| a | Level \* smoking | -0.22 (3.30) .95 | -25.15 (76.89) .74 | -12.69(17.63) |
| a | Level \* cardio | -0.36 (3.20) .91 | -18.40 (84.79) .83 | -9.38(12.76) |
| a | Level \* diabetes | -0.39 (3.70) .92 | -11.63 (54.41) .83 | -6.01(7.95) |
| a | Slope \* age | -0.03 (0.13) .81 | 0.72 (2.11) .73 | 0.34(0.53) |
| a | Slope \* education | 0.02 (0.15) .88 | -0.14 (2.66) .96 | -0.06(0.12) |
| a | Slope \* height | 0.00 (0.10) .98 | -0.02 (1.58) .99 | -0.01(0.01) |
| a | Slope \* smoking | 0.45 (0.89) .62 | 2.10 (21.13) .92 | 1.27(1.17) |
| a | Slope \* cardio | 0.77 (1.46) .60 | -5.97 (30.99) .85 | -2.60(4.76) |
| a | Slope \* diabetes | -0.47 (1.83) .80 | -3.63 (24.77) .88 | -2.05(2.23) |
| b | Level | 105.43 (15.43) <.01 | 33.71 (5.83) <.01 | --- |
| b | Slope | -1.24 (5.30) .82 | -2.30 (1.72) .18 | --- |
| b | Level \* age | -0.54 (0.61) .38 | -0.53 (0.28) .06 | --- |
| b | Level \* education | 0.69 (1.15) .55 | -0.29 (0.43) .51 | --- |
| b | Level \* height | 0.08 (0.45) .86 | 0.22 (0.20) .27 | --- |
| b | Level \* smoking | -0.78 (8.01) .92 | -0.12 (3.61) .97 | --- |
| b | Level \* cardio | -2.56 (12.21) .83 | -0.44 (3.70) .91 | --- |
| b | Level \* diabetes | -4.71 (8.79) .59 | -0.44 (3.34) .90 | --- |
| b | Slope \* age | -0.09 (0.32) .79 | -0.05 (0.09) .60 | --- |
| b | Slope \* education | -0.28 (0.26) .27 | 0.04 (0.12) .73 | --- |
| b | Slope \* height | 0.01 (0.21) .94 | -0.01 (0.07) .94 | --- |
| b | Slope \* smoking | 0.66 (2.71) .81 | 0.36 (1.10) .74 | --- |
| b | Slope \* cardio | 0.42 (4.09) .92 | 0.82 (0.99) .41 | --- |
| b | Slope \* diabetes | 0.04 (3.26) .99 | -0.42 (0.97) .66 | --- |
| a | Var (Level) | 26.84 (16.36) .10 | 12172.06 (6209.04) .05 | 6099.45(8587.97) |
| a | Var (Slope) | 0.73 (1.20) .54 | 317.94 (483.08) .51 | 159.33(224.30) |
| a | Var (Residual) | 17.30 (4.73) <.01 | 4225.07 (1115.18) <.01 | 2121.19(2975.34) |
| a | Covar (Level, Slope) | -2.27 (3.72) .54 | -839.47 (1678.46) .62 | -420.87(591.99) |
| b | Var (Level) | 213.71 (102.29) .04 | 26.60 (19.35) .17 | --- |
| b | Var (Slope) | 0.77 (7.95) .92 | 0.63 (1.30) .63 | --- |
| b | Var (Residual) | 75.38 (31.90) .02 | 17.71 (3.45) <.01 | --- |
| b | Covar (Level, Slope) | -0.00 (19.88) .99 | -2.26 (3.64) .54 | --- |
| ab | Covar (Levels) | 23.89 (37.41) .52 | 24.83 (258.35) .92 | --- |
| ab | Covar (Slopes) | 0.18 (2.28) .94 | 1.16 (32.16) .97 | --- |
| ab | Covar (Residuals) | 7.76 (10.60) .46 | 65.69 (48.29) .17 | --- |
|  | Correlation of Levels | 0.32 | 0.044 | 0.18(0.19) |
|  | Correlation of Slopes | 0.24 | 0.082 | 0.16(0.11) |
|  | Correlation of Residuals | 0.21 | 0.240 | 0.23(0.02) |
|  | N | 72 | 72 | 72.00(0.00) |
|  | occasions | 7 | 7 | 7.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -1,553 | -2,151 | -1,852(423) |
|  | AIC | 3,188 | 4,385 | 3,787(846) |
|  | BIC | 3,282 | 4,478 | 3,880(846) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 33.77 (7.42) <.01 |
| a | Slope | -2.42 (2.72) .37 |
| a | Level \* age | -0.55 (0.33) .09 |
| a | Level \* education | -0.26 (0.48) .60 |
| a | Level \* height | 0.21 (0.24) .37 |
| a | Level \* smoking | -0.22 (3.30) .95 |
| a | Level \* cardio | -0.36 (3.20) .91 |
| a | Level \* diabetes | -0.39 (3.70) .92 |
| a | Slope \* age | -0.03 (0.13) .81 |
| a | Slope \* education | 0.02 (0.15) .88 |
| a | Slope \* height | 0.00 (0.10) .98 |
| a | Slope \* smoking | 0.45 (0.89) .62 |
| a | Slope \* cardio | 0.77 (1.46) .60 |
| a | Slope \* diabetes | -0.47 (1.83) .80 |
| b | Level | 105.43 (15.43) <.01 |
| b | Slope | -1.24 (5.30) .82 |
| b | Level \* age | -0.54 (0.61) .38 |
| b | Level \* education | 0.69 (1.15) .55 |
| b | Level \* height | 0.08 (0.45) .86 |
| b | Level \* smoking | -0.78 (8.01) .92 |
| b | Level \* cardio | -2.56 (12.21) .83 |
| b | Level \* diabetes | -4.71 (8.79) .59 |
| b | Slope \* age | -0.09 (0.32) .79 |
| b | Slope \* education | -0.28 (0.26) .27 |
| b | Slope \* height | 0.01 (0.21) .94 |
| b | Slope \* smoking | 0.66 (2.71) .81 |
| b | Slope \* cardio | 0.42 (4.09) .92 |
| b | Slope \* diabetes | 0.04 (3.26) .99 |
| a | Var (Level) | 26.84 (16.36) .10 |
| a | Var (Slope) | 0.73 (1.20) .54 |
| a | Var (Residual) | 17.30 (4.73) <.01 |
| a | Covar (Level, Slope) | -2.27 (3.72) .54 |
| b | Var (Level) | 213.71 (102.29) .04 |
| b | Var (Slope) | 0.77 (7.95) .92 |
| b | Var (Residual) | 75.38 (31.90) .02 |
| b | Covar (Level, Slope) | -0.00 (19.88) .99 |
| ab | Covar (Levels) | 23.89 (37.41) .52 |
| ab | Covar (Slopes) | 0.18 (2.28) .94 |
| ab | Covar (Residuals) | 7.76 (10.60) .46 |
|  | Correlation of Levels | 0.32 |
|  | Correlation of Slopes | 0.24 |
|  | Correlation of Residuals | 0.21 |
|  | N | 72 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -1,553 |
|  | AIC | 3,188 |
|  | BIC | 3,282 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 403.73 (136.72) <.01 |
| a | Slope | -27.65 (46.58) .55 |
| a | Level \* age | -5.44 (7.00) .44 |
| a | Level \* education | 5.68 (10.55) .59 |
| a | Level \* height | 3.06 (3.51) .38 |
| a | Level \* smoking | -25.15 (76.89) .74 |
| a | Level \* cardio | -18.40 (84.79) .83 |
| a | Level \* diabetes | -11.63 (54.41) .83 |
| a | Slope \* age | 0.72 (2.11) .73 |
| a | Slope \* education | -0.14 (2.66) .96 |
| a | Slope \* height | -0.02 (1.58) .99 |
| a | Slope \* smoking | 2.10 (21.13) .92 |
| a | Slope \* cardio | -5.97 (30.99) .85 |
| a | Slope \* diabetes | -3.63 (24.77) .88 |
| b | Level | 33.71 (5.83) <.01 |
| b | Slope | -2.30 (1.72) .18 |
| b | Level \* age | -0.53 (0.28) .06 |
| b | Level \* education | -0.29 (0.43) .51 |
| b | Level \* height | 0.22 (0.20) .27 |
| b | Level \* smoking | -0.12 (3.61) .97 |
| b | Level \* cardio | -0.44 (3.70) .91 |
| b | Level \* diabetes | -0.44 (3.34) .90 |
| b | Slope \* age | -0.05 (0.09) .60 |
| b | Slope \* education | 0.04 (0.12) .73 |
| b | Slope \* height | -0.01 (0.07) .94 |
| b | Slope \* smoking | 0.36 (1.10) .74 |
| b | Slope \* cardio | 0.82 (0.99) .41 |
| b | Slope \* diabetes | -0.42 (0.97) .66 |
| a | Var (Level) | 12172.06 (6209.04) .05 |
| a | Var (Slope) | 317.94 (483.08) .51 |
| a | Var (Residual) | 4225.07 (1115.18) <.01 |
| a | Covar (Level, Slope) | -839.47 (1678.46) .62 |
| b | Var (Level) | 26.60 (19.35) .17 |
| b | Var (Slope) | 0.63 (1.30) .63 |
| b | Var (Residual) | 17.71 (3.45) <.01 |
| b | Covar (Level, Slope) | -2.26 (3.64) .54 |
| ab | Covar (Levels) | 24.83 (258.35) .92 |
| ab | Covar (Slopes) | 1.16 (32.16) .97 |
| ab | Covar (Residuals) | 65.69 (48.29) .17 |
|  | Correlation of Levels | 0.044 |
|  | Correlation of Slopes | 0.082 |
|  | Correlation of Residuals | 0.240 |
|  | N | 72 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -2,151 |
|  | AIC | 4,385 |
|  | BIC | 4,478 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.32 |
| Correlation of Levels | pef | 0.04 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.24 |
| Correlation of Slopes | pef | 0.08 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.25 |
| Correlation of Residuals | pef | 0.17 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.48 |
| Correlation of Levels | pef | 0.92 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.93 |
| Correlation of Slopes | pef | 0.97 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.39 |
| Correlation of Residuals | pef | 0.15 |

# pef : Available models

Study **EAS** 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 |
| eas | female | aehplus | pef | gait | 1 |

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

# female

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 345.14 (25.01) <.01 | 345.14(NA) |
| a | Slope | -28.95 (7.62) <.01 | -28.95(NA) |
| a | Level \* age | -4.33 (1.67) .01 | -4.33(NA) |
| a | Level \* education | -2.12 (2.55) .41 | -2.12(NA) |
| a | Level \* height | 0.41 (1.27) .75 | 0.41(NA) |
| a | Level \* smoking | -0.64 (15.26) .97 | -0.64(NA) |
| a | Level \* cardio | -22.74 (25.25) .37 | -22.74(NA) |
| a | Level \* diabetes | -25.57 (25.34) .31 | -25.57(NA) |
| a | Slope \* age | 0.20 (0.49) .68 | 0.20(NA) |
| a | Slope \* education | 0.72 (0.88) .41 | 0.72(NA) |
| a | Slope \* height | 0.62 (0.32) .05 | 0.62(NA) |
| a | Slope \* smoking | 1.95 (3.77) .61 | 1.95(NA) |
| a | Slope \* cardio | 3.15 (8.63) .71 | 3.15(NA) |
| a | Slope \* diabetes | -0.94 (7.94) .90 | -0.94(NA) |
| b | Level | 110.61 (8.32) <.01 | --- |
| b | Slope | -3.65 (2.38) .12 | --- |
| b | Level \* age | -1.56 (0.48) <.01 | --- |
| b | Level \* education | 0.31 (0.84) .71 | --- |
| b | Level \* height | 0.04 (0.33) .90 | --- |
| b | Level \* smoking | 2.99 (4.44) .50 | --- |
| b | Level \* cardio | -5.17 (6.84) .45 | --- |
| b | Level \* diabetes | -18.82 (6.26) <.01 | --- |
| b | Slope \* age | -0.04 (0.12) .74 | --- |
| b | Slope \* education | 0.12 (0.29) .68 | --- |
| b | Slope \* height | 0.07 (0.08) .41 | --- |
| b | Slope \* smoking | -0.31 (1.31) .81 | --- |
| b | Slope \* cardio | 0.10 (2.05) .96 | --- |
| b | Slope \* diabetes | 0.51 (2.04) .80 | --- |
| a | Var (Level) | 4732.25 (1131.20) <.01 | 4732.25(NA) |
| a | Var (Slope) | 58.23 (43.97) .18 | 58.23(NA) |
| a | Var (Residual) | 1650.99 (113.82) <.01 | 1650.99(NA) |
| a | Covar (Level, Slope) | -351.80 (181.86) .05 | -351.80(NA) |
| b | Var (Level) | 347.82 (88.89) <.01 | --- |
| b | Var (Slope) | 6.74 (3.85) .08 | --- |
| b | Var (Residual) | 60.03 (6.89) <.01 | --- |
| b | Covar (Level, Slope) | -15.13 (19.84) .45 | --- |
| ab | Covar (Levels) | 67.25 (237.19) .78 | --- |
| ab | Covar (Slopes) | -10.98 (12.32) .37 | --- |
| ab | Covar (Residuals) | 29.78 (37.80) .43 | --- |
|  | Correlation of Levels | 0.052 | 0.05(NA) |
|  | Correlation of Slopes | -0.554 | -0.55(NA) |
|  | Correlation of Residuals | 0.095 | 0.09(NA) |
|  | N | 150 | 150.00(NA) |
|  | occasions | 7 | 7.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -3,904 | -3,904(NA) |
|  | AIC | 7,890 | 7,890(NA) |
|  | BIC | 8,014 | 8,014(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 345.14 (25.01) <.01 |
| a | Slope | -28.95 (7.62) <.01 |
| a | Level \* age | -4.33 (1.67) .01 |
| a | Level \* education | -2.12 (2.55) .41 |
| a | Level \* height | 0.41 (1.27) .75 |
| a | Level \* smoking | -0.64 (15.26) .97 |
| a | Level \* cardio | -22.74 (25.25) .37 |
| a | Level \* diabetes | -25.57 (25.34) .31 |
| a | Slope \* age | 0.20 (0.49) .68 |
| a | Slope \* education | 0.72 (0.88) .41 |
| a | Slope \* height | 0.62 (0.32) .05 |
| a | Slope \* smoking | 1.95 (3.77) .61 |
| a | Slope \* cardio | 3.15 (8.63) .71 |
| a | Slope \* diabetes | -0.94 (7.94) .90 |
| b | Level | 110.61 (8.32) <.01 |
| b | Slope | -3.65 (2.38) .12 |
| b | Level \* age | -1.56 (0.48) <.01 |
| b | Level \* education | 0.31 (0.84) .71 |
| b | Level \* height | 0.04 (0.33) .90 |
| b | Level \* smoking | 2.99 (4.44) .50 |
| b | Level \* cardio | -5.17 (6.84) .45 |
| b | Level \* diabetes | -18.82 (6.26) <.01 |
| b | Slope \* age | -0.04 (0.12) .74 |
| b | Slope \* education | 0.12 (0.29) .68 |
| b | Slope \* height | 0.07 (0.08) .41 |
| b | Slope \* smoking | -0.31 (1.31) .81 |
| b | Slope \* cardio | 0.10 (2.05) .96 |
| b | Slope \* diabetes | 0.51 (2.04) .80 |
| a | Var (Level) | 4732.25 (1131.20) <.01 |
| a | Var (Slope) | 58.23 (43.97) .18 |
| a | Var (Residual) | 1650.99 (113.82) <.01 |
| a | Covar (Level, Slope) | -351.80 (181.86) .05 |
| b | Var (Level) | 347.82 (88.89) <.01 |
| b | Var (Slope) | 6.74 (3.85) .08 |
| b | Var (Residual) | 60.03 (6.89) <.01 |
| b | Covar (Level, Slope) | -15.13 (19.84) .45 |
| ab | Covar (Levels) | 67.25 (237.19) .78 |
| ab | Covar (Slopes) | -10.98 (12.32) .37 |
| ab | Covar (Residuals) | 29.78 (37.80) .43 |
|  | Correlation of Levels | 0.052 |
|  | Correlation of Slopes | -0.554 |
|  | Correlation of Residuals | 0.095 |
|  | N | 150 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -3,904 |
|  | AIC | 7,890 |
|  | BIC | 8,014 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.05 |

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

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | gait | 0.12 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.78 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.28 |

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

# male

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| a | Level | 404.36 (113.72) <.01 | 404.36(NA) |
| a | Slope | -26.81 (52.66) .61 | -26.81(NA) |
| a | Level \* age | -4.75 (5.54) .39 | -4.75(NA) |
| a | Level \* education | 4.51 (8.77) .61 | 4.51(NA) |
| a | Level \* height | 3.32 (4.38) .45 | 3.32(NA) |
| a | Level \* smoking | -23.83 (86.98) .78 | -23.83(NA) |
| a | Level \* cardio | -19.67 (74.06) .79 | -19.67(NA) |
| a | Level \* diabetes | -15.87 (79.07) .84 | -15.87(NA) |
| a | Slope \* age | 0.22 (2.18) .92 | 0.22(NA) |
| a | Slope \* education | 0.72 (2.54) .78 | 0.72(NA) |
| a | Slope \* height | -0.24 (1.71) .89 | -0.24(NA) |
| a | Slope \* smoking | 0.19 (25.48) .99 | 0.19(NA) |
| a | Slope \* cardio | -4.61 (38.42) .90 | -4.61(NA) |
| a | Slope \* diabetes | -0.50 (32.22) .99 | -0.50(NA) |
| b | Level | 106.48 (14.51) <.01 | --- |
| b | Slope | -2.07 (6.16) .74 | --- |
| b | Level \* age | -0.47 (0.58) .42 | --- |
| b | Level \* education | 0.67 (1.06) .53 | --- |
| b | Level \* height | 0.05 (0.46) .92 | --- |
| b | Level \* smoking | -1.45 (7.03) .84 | --- |
| b | Level \* cardio | -2.65 (13.60) .84 | --- |
| b | Level \* diabetes | -4.94 (11.15) .66 | --- |
| b | Slope \* age | -0.08 (0.29) .78 | --- |
| b | Slope \* education | -0.27 (0.42) .51 | --- |
| b | Slope \* height | 0.05 (0.21) .83 | --- |
| b | Slope \* smoking | 0.95 (3.06) .76 | --- |
| b | Slope \* cardio | 0.35 (5.89) .95 | --- |
| b | Slope \* diabetes | -0.11 (4.81) .98 | --- |
| a | Var (Level) | 12233.08 (6432.02) .06 | 12233.08(NA) |
| a | Var (Slope) | 269.59 (447.93) .55 | 269.59(NA) |
| a | Var (Residual) | 4251.44 (862.69) <.01 | 4251.44(NA) |
| a | Covar (Level, Slope) | -826.29 (1495.31) .58 | -826.29(NA) |
| b | Var (Level) | 227.47 (127.34) .07 | --- |
| b | Var (Slope) | 1.17 (5.37) .83 | --- |
| b | Var (Residual) | 73.71 (17.69) <.01 | --- |
| b | Covar (Level, Slope) | -3.42 (33.86) .92 | --- |
| ab | Covar (Levels) | -64.30 (734.65) .93 | --- |
| ab | Covar (Slopes) | -7.98 (29.04) .78 | --- |
| ab | Covar (Residuals) | 101.38 (125.95) .42 | --- |
|  | Correlation of Levels | -0.039 | -0.04(NA) |
|  | Correlation of Slopes | -0.448 | -0.45(NA) |
|  | Correlation of Residuals | 0.181 | 0.18(NA) |
|  | N | 72 | 72.00(NA) |
|  | occasions | 7 | 7.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -2,231 | -2,231(NA) |
|  | AIC | 4,544 | 4,544(NA) |
|  | BIC | 4,637 | 4,637(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| a | Level | 404.36 (113.72) <.01 |
| a | Slope | -26.81 (52.66) .61 |
| a | Level \* age | -4.75 (5.54) .39 |
| a | Level \* education | 4.51 (8.77) .61 |
| a | Level \* height | 3.32 (4.38) .45 |
| a | Level \* smoking | -23.83 (86.98) .78 |
| a | Level \* cardio | -19.67 (74.06) .79 |
| a | Level \* diabetes | -15.87 (79.07) .84 |
| a | Slope \* age | 0.22 (2.18) .92 |
| a | Slope \* education | 0.72 (2.54) .78 |
| a | Slope \* height | -0.24 (1.71) .89 |
| a | Slope \* smoking | 0.19 (25.48) .99 |
| a | Slope \* cardio | -4.61 (38.42) .90 |
| a | Slope \* diabetes | -0.50 (32.22) .99 |
| b | Level | 106.48 (14.51) <.01 |
| b | Slope | -2.07 (6.16) .74 |
| b | Level \* age | -0.47 (0.58) .42 |
| b | Level \* education | 0.67 (1.06) .53 |
| b | Level \* height | 0.05 (0.46) .92 |
| b | Level \* smoking | -1.45 (7.03) .84 |
| b | Level \* cardio | -2.65 (13.60) .84 |
| b | Level \* diabetes | -4.94 (11.15) .66 |
| b | Slope \* age | -0.08 (0.29) .78 |
| b | Slope \* education | -0.27 (0.42) .51 |
| b | Slope \* height | 0.05 (0.21) .83 |
| b | Slope \* smoking | 0.95 (3.06) .76 |
| b | Slope \* cardio | 0.35 (5.89) .95 |
| b | Slope \* diabetes | -0.11 (4.81) .98 |
| a | Var (Level) | 12233.08 (6432.02) .06 |
| a | Var (Slope) | 269.59 (447.93) .55 |
| a | Var (Residual) | 4251.44 (862.69) <.01 |
| a | Covar (Level, Slope) | -826.29 (1495.31) .58 |
| b | Var (Level) | 227.47 (127.34) .07 |
| b | Var (Slope) | 1.17 (5.37) .83 |
| b | Var (Residual) | 73.71 (17.69) <.01 |
| b | Covar (Level, Slope) | -3.42 (33.86) .92 |
| ab | Covar (Levels) | -64.30 (734.65) .93 |
| ab | Covar (Slopes) | -7.98 (29.04) .78 |
| ab | Covar (Residuals) | 101.38 (125.95) .42 |
|  | Correlation of Levels | -0.039 |
|  | Correlation of Slopes | -0.448 |
|  | Correlation of Residuals | 0.181 |
|  | N | 72 |
|  | occasions | 7 |
|  | parameters | 41 |
|  | LL | -2,231 |
|  | AIC | 4,544 |
|  | BIC | 4,637 |

## Summary

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

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | -0.04 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | -0.45 |

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

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | gait | 0.93 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | gait | 0.81 |

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

#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