OCTO : Seed Report

Date: 2016-10-31

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

# grip : Available models

Study **OCTO** 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 |
| octo | female | aehplus | grip | gait | 1 |
| octo | female | aehplus | grip | pef | 1 |

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

# female

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| ab | Covar (Levels) | -2.08 (0.55) <.01 | 44.94 (10.25) <.01 | --- |
| ab | Covar (Slopes) | -0.01 (0.03) .84 | 0.23 (0.25) .36 | --- |
| ab | Covar (Residuals) | -0.17 (0.18) .35 | 1.29 (3.23) .69 | --- |
| er | Corr (Levels) | -0.33 (0.07) <.01 | 0.39 (0.07) <.01 | --- |
| er | Corr (Slopes) | -0.04 (0.24) .86 | 0.34 (0.37) .36 | --- |
| er | Corr (Residuals) | -0.04 (0.05) .33 | 0.02 (0.06) .69 | --- |
| a | Level | 9.18 (0.25) <.01 | 9.19 (0.25) <.01 | 9.18(0.00) |
| a | Slope | -0.33 (0.04) <.01 | -0.33 (0.04) <.01 | -0.33(0.00) |
| a | Level \* age | -0.15 (0.04) <.01 | -0.15 (0.04) <.01 | -0.15(0.00) |
| a | Level \* education | 0.17 (0.07) .01 | 0.17 (0.07) .01 | 0.17(0.00) |
| a | Level \* height | 0.09 (0.02) <.01 | 0.09 (0.02) <.01 | 0.09(0.00) |
| a | Level \* smoking | -0.52 (0.32) .10 | -0.51 (0.32) .10 | -0.51(0.00) |
| a | Level \* cardio | -0.16 (0.25) .52 | -0.16 (0.25) .52 | -0.16(0.00) |
| a | Level \* diabetes | -0.01 (0.52) .98 | -0.02 (0.53) .97 | -0.02(0.00) |
| a | Slope \* age | -0.00 (0.01) .64 | -0.00 (0.01) .64 | -0.00(0.00) |
| a | Slope \* education | -0.01 (0.01) .39 | -0.01 (0.01) .38 | -0.01(0.00) |
| a | Slope \* height | -0.00 (0.00) .46 | -0.00 (0.00) .52 | -0.00(0.00) |
| a | Slope \* smoking | 0.01 (0.05) .81 | 0.01 (0.04) .86 | 0.01(0.00) |
| a | Slope \* cardio | 0.00 (0.04) .99 | 0.00 (0.04) .99 | 0.00(0.00) |
| a | Slope \* diabetes | -0.05 (0.11) .64 | -0.04 (0.10) .71 | -0.04(0.01) |
| b | Level | 10.29 (0.47) <.01 | 327.88 (8.75) <.01 | --- |
| b | Slope | 0.53 (0.29) .07 | -7.07 (1.40) <.01 | --- |
| b | Level \* age | 0.32 (0.09) <.01 | -6.62 (1.90) <.01 | --- |
| b | Level \* education | -0.32 (0.13) .01 | 5.83 (2.65) .03 | --- |
| b | Level \* height | -0.04 (0.05) .41 | 2.60 (0.98) .01 | --- |
| b | Level \* smoking | 0.04 (0.75) .96 | -35.45 (12.80) .01 | --- |
| b | Level \* cardio | 0.71 (0.53) .18 | 2.34 (10.14) .82 | --- |
| b | Level \* diabetes | 1.70 (1.41) .23 | 1.19 (16.02) .94 | --- |
| b | Slope \* age | -0.00 (0.04) .91 | 0.94 (0.35) .01 | --- |
| b | Slope \* education | -0.03 (0.04) .48 | -0.26 (0.46) .57 | --- |
| b | Slope \* height | 0.01 (0.02) .66 | -0.21 (0.20) .28 | --- |
| b | Slope \* smoking | 0.07 (0.17) .68 | -3.38 (2.04) .10 | --- |
| b | Slope \* cardio | -0.18 (0.20) .38 | -2.72 (1.66) .10 | --- |
| b | Slope \* diabetes | 1.09 (0.84) .20 | 3.53 (3.46) .31 | --- |
| a | Var (Level) | 3.19 (0.43) <.01 | 3.18 (0.43) <.01 | 3.19(0.01) |
| a | Var (Slope) | 0.02 (0.01) .04 | 0.02 (0.01) .05 | 0.02(0.00) |
| a | Var (Residual) | 1.26 (0.12) <.01 | 1.27 (0.12) <.01 | 1.27(0.00) |
| b | Var (Level) | 12.37 (4.30) <.01 | 4263.73 (507.44) <.01 | --- |
| b | Var (Slope) | 0.96 (1.77) .58 | 27.16 (15.02) .07 | --- |
| b | Var (Residual) | 11.25 (2.68) <.01 | 2119.94 (183.89) <.01 | --- |
| a | Covar (Level, Slope) | -0.04 (0.04) .38 | -0.03 (0.04) .45 | -0.03(0.00) |
| b | Covar (Level, Slope) | 3.18 (3.71) .39 | -154.09 (83.92) .07 | --- |
|  | Correlation of Levels | -0.331 | 0.386 | 0.03(0.51) |
|  | Correlation of Slopes | -0.046 | 0.340 | 0.15(0.27) |
|  | Correlation of Residuals | -0.045 | 0.025 | -0.01(0.05) |
|  | N | 270 | 270 | 270.00(0.00) |
|  | occasions | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -4,128 | -5,669 | -4,898(1,089) |
|  | AIC | 8,338 | 11,419 | 9,878(2,179) |
|  | BIC | 8,485 | 11,567 | 10,026(2,179) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | -2.08 (0.55) <.01 |
| ab | Covar (Slopes) | -0.01 (0.03) .84 |
| ab | Covar (Residuals) | -0.17 (0.18) .35 |
| er | Corr (Levels) | -0.33 (0.07) <.01 |
| er | Corr (Slopes) | -0.04 (0.24) .86 |
| er | Corr (Residuals) | -0.04 (0.05) .33 |
| a | Level | 9.18 (0.25) <.01 |
| a | Slope | -0.33 (0.04) <.01 |
| a | Level \* age | -0.15 (0.04) <.01 |
| a | Level \* education | 0.17 (0.07) .01 |
| a | Level \* height | 0.09 (0.02) <.01 |
| a | Level \* smoking | -0.52 (0.32) .10 |
| a | Level \* cardio | -0.16 (0.25) .52 |
| a | Level \* diabetes | -0.01 (0.52) .98 |
| a | Slope \* age | -0.00 (0.01) .64 |
| a | Slope \* education | -0.01 (0.01) .39 |
| a | Slope \* height | -0.00 (0.00) .46 |
| a | Slope \* smoking | 0.01 (0.05) .81 |
| a | Slope \* cardio | 0.00 (0.04) .99 |
| a | Slope \* diabetes | -0.05 (0.11) .64 |
| b | Level | 10.29 (0.47) <.01 |
| b | Slope | 0.53 (0.29) .07 |
| b | Level \* age | 0.32 (0.09) <.01 |
| b | Level \* education | -0.32 (0.13) .01 |
| b | Level \* height | -0.04 (0.05) .41 |
| b | Level \* smoking | 0.04 (0.75) .96 |
| b | Level \* cardio | 0.71 (0.53) .18 |
| b | Level \* diabetes | 1.70 (1.41) .23 |
| b | Slope \* age | -0.00 (0.04) .91 |
| b | Slope \* education | -0.03 (0.04) .48 |
| b | Slope \* height | 0.01 (0.02) .66 |
| b | Slope \* smoking | 0.07 (0.17) .68 |
| b | Slope \* cardio | -0.18 (0.20) .38 |
| b | Slope \* diabetes | 1.09 (0.84) .20 |
| a | Var (Level) | 3.19 (0.43) <.01 |
| a | Var (Slope) | 0.02 (0.01) .04 |
| a | Var (Residual) | 1.26 (0.12) <.01 |
| b | Var (Level) | 12.37 (4.30) <.01 |
| b | Var (Slope) | 0.96 (1.77) .58 |
| b | Var (Residual) | 11.25 (2.68) <.01 |
| a | Covar (Level, Slope) | -0.04 (0.04) .38 |
| b | Covar (Level, Slope) | 3.18 (3.71) .39 |
|  | Correlation of Levels | -0.331 |
|  | Correlation of Slopes | -0.046 |
|  | Correlation of Residuals | -0.045 |
|  | N | 270 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -4,128 |
|  | AIC | 8,338 |
|  | BIC | 8,485 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 44.94 (10.25) <.01 |
| ab | Covar (Slopes) | 0.23 (0.25) .36 |
| ab | Covar (Residuals) | 1.29 (3.23) .69 |
| er | Corr (Levels) | 0.39 (0.07) <.01 |
| er | Corr (Slopes) | 0.34 (0.37) .36 |
| er | Corr (Residuals) | 0.02 (0.06) .69 |
| a | Level | 9.19 (0.25) <.01 |
| a | Slope | -0.33 (0.04) <.01 |
| a | Level \* age | -0.15 (0.04) <.01 |
| a | Level \* education | 0.17 (0.07) .01 |
| a | Level \* height | 0.09 (0.02) <.01 |
| a | Level \* smoking | -0.51 (0.32) .10 |
| a | Level \* cardio | -0.16 (0.25) .52 |
| a | Level \* diabetes | -0.02 (0.53) .97 |
| a | Slope \* age | -0.00 (0.01) .64 |
| a | Slope \* education | -0.01 (0.01) .38 |
| a | Slope \* height | -0.00 (0.00) .52 |
| a | Slope \* smoking | 0.01 (0.04) .86 |
| a | Slope \* cardio | 0.00 (0.04) .99 |
| a | Slope \* diabetes | -0.04 (0.10) .71 |
| b | Level | 327.88 (8.75) <.01 |
| b | Slope | -7.07 (1.40) <.01 |
| b | Level \* age | -6.62 (1.90) <.01 |
| b | Level \* education | 5.83 (2.65) .03 |
| b | Level \* height | 2.60 (0.98) .01 |
| b | Level \* smoking | -35.45 (12.80) .01 |
| b | Level \* cardio | 2.34 (10.14) .82 |
| b | Level \* diabetes | 1.19 (16.02) .94 |
| b | Slope \* age | 0.94 (0.35) .01 |
| b | Slope \* education | -0.26 (0.46) .57 |
| b | Slope \* height | -0.21 (0.20) .28 |
| b | Slope \* smoking | -3.38 (2.04) .10 |
| b | Slope \* cardio | -2.72 (1.66) .10 |
| b | Slope \* diabetes | 3.53 (3.46) .31 |
| a | Var (Level) | 3.18 (0.43) <.01 |
| a | Var (Slope) | 0.02 (0.01) .05 |
| a | Var (Residual) | 1.27 (0.12) <.01 |
| b | Var (Level) | 4263.73 (507.44) <.01 |
| b | Var (Slope) | 27.16 (15.02) .07 |
| b | Var (Residual) | 2119.94 (183.89) <.01 |
| a | Covar (Level, Slope) | -0.03 (0.04) .45 |
| b | Covar (Level, Slope) | -154.09 (83.92) .07 |
|  | Correlation of Levels | 0.386 |
|  | Correlation of Slopes | 0.340 |
|  | Correlation of Residuals | 0.025 |
|  | N | 270 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -5,669 |
|  | AIC | 11,419 |
|  | BIC | 11,567 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| ab | Covar (Levels) | -1.57 (0.68) .02 | 28.29 (27.56) .30 | --- |
| ab | Covar (Slopes) | -0.04 (0.05) .33 | 0.10 (0.58) .87 | --- |
| ab | Covar (Residuals) | -0.39 (0.27) .16 | 10.21 (6.67) .13 | --- |
| er | Corr (Levels) | -0.35 (0.14) .01 | 0.15 (0.14) .29 | --- |
| er | Corr (Slopes) | -0.70 (0.51) .17 | 0.10 (0.60) .87 | --- |
| er | Corr (Residuals) | -0.13 (0.09) .14 | 0.14 (0.09) .11 | --- |
| a | Level | 10.76 (0.60) <.01 | 12.07 (0.46) <.01 | 11.41(0.93) |
| a | Slope | -0.10 (0.10) .31 | -0.23 (0.08) <.01 | -0.17(0.09) |
| a | Level \* age | -0.16 (0.07) .02 | -0.16 (0.07) .01 | -0.16(0.00) |
| a | Level \* education | -0.13 (0.05) .01 | -0.13 (0.05) .01 | -0.13(0.00) |
| a | Level \* height | 0.11 (0.04) <.01 | 0.11 (0.04) <.01 | 0.11(0.00) |
| a | Level \* smoking | 0.12 (0.43) .78 | 0.12 (0.42) .78 | 0.12(0.00) |
| a | Level \* cardio | -0.42 (0.41) .31 | -0.42 (0.40) .30 | -0.42(0.00) |
| a | Level \* diabetes | -1.55 (0.70) .03 | -1.57 (0.70) .02 | -1.56(0.01) |
| a | Slope \* age | -0.06 (0.02) <.01 | -0.05 (0.02) .01 | -0.06(0.00) |
| a | Slope \* education | -0.00 (0.01) .91 | -0.00 (0.01) .96 | -0.00(0.00) |
| a | Slope \* height | -0.01 (0.01) .10 | -0.01 (0.01) .08 | -0.01(0.00) |
| a | Slope \* smoking | 0.02 (0.08) .84 | 0.02 (0.08) .83 | 0.02(0.00) |
| a | Slope \* cardio | -0.23 (0.08) <.01 | -0.23 (0.07) <.01 | -0.23(0.00) |
| a | Slope \* diabetes | -0.08 (0.13) .54 | -0.07 (0.13) .60 | -0.07(0.01) |
| b | Level | 9.14 (0.64) <.01 | 466.52 (23.76) <.01 | --- |
| b | Slope | 0.19 (0.17) .27 | -4.51 (3.60) .21 | --- |
| b | Level \* age | 0.28 (0.10) <.01 | -11.41 (4.14) .01 | --- |
| b | Level \* education | -0.07 (0.10) .43 | 6.93 (2.09) <.01 | --- |
| b | Level \* height | -0.06 (0.04) .17 | 2.09 (1.48) .16 | --- |
| b | Level \* smoking | 1.05 (0.57) .07 | -35.09 (22.02) .11 | --- |
| b | Level \* cardio | 1.26 (0.53) .02 | -21.40 (19.54) .27 | --- |
| b | Level \* diabetes | 1.31 (0.82) .11 | 38.77 (27.77) .16 | --- |
| b | Slope \* age | -0.00 (0.03) .92 | -0.01 (1.04) .99 | --- |
| b | Slope \* education | 0.01 (0.03) .83 | -0.44 (0.59) .45 | --- |
| b | Slope \* height | 0.01 (0.01) .31 | 0.20 (0.27) .45 | --- |
| b | Slope \* smoking | -0.11 (0.14) .41 | -4.63 (3.49) .18 | --- |
| b | Slope \* cardio | 0.24 (0.16) .12 | -2.30 (2.97) .44 | --- |
| b | Slope \* diabetes | 0.12 (0.25) .64 | -5.17 (4.52) .25 | --- |
| a | Var (Level) | 4.47 (0.68) <.01 | 4.42 (0.68) <.01 | 4.45(0.04) |
| a | Var (Slope) | 0.04 (0.02) .06 | 0.04 (0.02) .08 | 0.04(0.00) |
| a | Var (Residual) | 1.54 (0.20) <.01 | 1.57 (0.21) <.01 | 1.56(0.02) |
| b | Var (Level) | 4.57 (1.60) <.01 | 8263.24 (1404.73) <.01 | --- |
| b | Var (Slope) | 0.09 (0.13) .49 | 23.60 (18.30) .20 | --- |
| b | Var (Residual) | 6.04 (1.05) <.01 | 3395.04 (431.72) <.01 | --- |
| a | Covar (Level, Slope) | -0.16 (0.10) .10 | -0.14 (0.10) .14 | -0.15(0.01) |
| b | Covar (Level, Slope) | -0.06 (0.42) .88 | -228.44 (145.86) .12 | --- |
|  | Correlation of Levels | -0.35 | 0.15 | -0.10(0.35) |
|  | Correlation of Slopes | -0.70 | 0.10 | -0.30(0.57) |
|  | Correlation of Residuals | -0.13 | 0.14 | 0.01(0.19) |
|  | N | 138 | 138 | 138.00(0.00) |
|  | occasions | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -1,835 | -2,924 | -2,380( 770) |
|  | AIC | 3,753 | 5,930 | 4,841(1,540) |
|  | BIC | 3,873 | 6,050 | 4,961(1,540) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | -1.57 (0.68) .02 |
| ab | Covar (Slopes) | -0.04 (0.05) .33 |
| ab | Covar (Residuals) | -0.39 (0.27) .16 |
| er | Corr (Levels) | -0.35 (0.14) .01 |
| er | Corr (Slopes) | -0.70 (0.51) .17 |
| er | Corr (Residuals) | -0.13 (0.09) .14 |
| a | Level | 10.76 (0.60) <.01 |
| a | Slope | -0.10 (0.10) .31 |
| a | Level \* age | -0.16 (0.07) .02 |
| a | Level \* education | -0.13 (0.05) .01 |
| a | Level \* height | 0.11 (0.04) <.01 |
| a | Level \* smoking | 0.12 (0.43) .78 |
| a | Level \* cardio | -0.42 (0.41) .31 |
| a | Level \* diabetes | -1.55 (0.70) .03 |
| a | Slope \* age | -0.06 (0.02) <.01 |
| a | Slope \* education | -0.00 (0.01) .91 |
| a | Slope \* height | -0.01 (0.01) .10 |
| a | Slope \* smoking | 0.02 (0.08) .84 |
| a | Slope \* cardio | -0.23 (0.08) <.01 |
| a | Slope \* diabetes | -0.08 (0.13) .54 |
| b | Level | 9.14 (0.64) <.01 |
| b | Slope | 0.19 (0.17) .27 |
| b | Level \* age | 0.28 (0.10) <.01 |
| b | Level \* education | -0.07 (0.10) .43 |
| b | Level \* height | -0.06 (0.04) .17 |
| b | Level \* smoking | 1.05 (0.57) .07 |
| b | Level \* cardio | 1.26 (0.53) .02 |
| b | Level \* diabetes | 1.31 (0.82) .11 |
| b | Slope \* age | -0.00 (0.03) .92 |
| b | Slope \* education | 0.01 (0.03) .83 |
| b | Slope \* height | 0.01 (0.01) .31 |
| b | Slope \* smoking | -0.11 (0.14) .41 |
| b | Slope \* cardio | 0.24 (0.16) .12 |
| b | Slope \* diabetes | 0.12 (0.25) .64 |
| a | Var (Level) | 4.47 (0.68) <.01 |
| a | Var (Slope) | 0.04 (0.02) .06 |
| a | Var (Residual) | 1.54 (0.20) <.01 |
| b | Var (Level) | 4.57 (1.60) <.01 |
| b | Var (Slope) | 0.09 (0.13) .49 |
| b | Var (Residual) | 6.04 (1.05) <.01 |
| a | Covar (Level, Slope) | -0.16 (0.10) .10 |
| b | Covar (Level, Slope) | -0.06 (0.42) .88 |
|  | Correlation of Levels | -0.35 |
|  | Correlation of Slopes | -0.70 |
|  | Correlation of Residuals | -0.13 |
|  | N | 138 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -1,835 |
|  | AIC | 3,753 |
|  | BIC | 3,873 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 28.29 (27.56) .30 |
| ab | Covar (Slopes) | 0.10 (0.58) .87 |
| ab | Covar (Residuals) | 10.21 (6.67) .13 |
| er | Corr (Levels) | 0.15 (0.14) .29 |
| er | Corr (Slopes) | 0.10 (0.60) .87 |
| er | Corr (Residuals) | 0.14 (0.09) .11 |
| a | Level | 12.07 (0.46) <.01 |
| a | Slope | -0.23 (0.08) <.01 |
| a | Level \* age | -0.16 (0.07) .01 |
| a | Level \* education | -0.13 (0.05) .01 |
| a | Level \* height | 0.11 (0.04) <.01 |
| a | Level \* smoking | 0.12 (0.42) .78 |
| a | Level \* cardio | -0.42 (0.40) .30 |
| a | Level \* diabetes | -1.57 (0.70) .02 |
| a | Slope \* age | -0.05 (0.02) .01 |
| a | Slope \* education | -0.00 (0.01) .96 |
| a | Slope \* height | -0.01 (0.01) .08 |
| a | Slope \* smoking | 0.02 (0.08) .83 |
| a | Slope \* cardio | -0.23 (0.07) <.01 |
| a | Slope \* diabetes | -0.07 (0.13) .60 |
| b | Level | 466.52 (23.76) <.01 |
| b | Slope | -4.51 (3.60) .21 |
| b | Level \* age | -11.41 (4.14) .01 |
| b | Level \* education | 6.93 (2.09) <.01 |
| b | Level \* height | 2.09 (1.48) .16 |
| b | Level \* smoking | -35.09 (22.02) .11 |
| b | Level \* cardio | -21.40 (19.54) .27 |
| b | Level \* diabetes | 38.77 (27.77) .16 |
| b | Slope \* age | -0.01 (1.04) .99 |
| b | Slope \* education | -0.44 (0.59) .45 |
| b | Slope \* height | 0.20 (0.27) .45 |
| b | Slope \* smoking | -4.63 (3.49) .18 |
| b | Slope \* cardio | -2.30 (2.97) .44 |
| b | Slope \* diabetes | -5.17 (4.52) .25 |
| a | Var (Level) | 4.42 (0.68) <.01 |
| a | Var (Slope) | 0.04 (0.02) .08 |
| a | Var (Residual) | 1.57 (0.21) <.01 |
| b | Var (Level) | 8263.24 (1404.73) <.01 |
| b | Var (Slope) | 23.60 (18.30) .20 |
| b | Var (Residual) | 3395.04 (431.72) <.01 |
| a | Covar (Level, Slope) | -0.14 (0.10) .14 |
| b | Covar (Level, Slope) | -228.44 (145.86) .12 |
|  | Correlation of Levels | 0.15 |
|  | Correlation of Slopes | 0.10 |
|  | Correlation of Residuals | 0.14 |
|  | N | 138 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -2,924 |
|  | AIC | 5,930 |
|  | BIC | 6,050 |

# pef : Available models

Study **OCTO** 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 |
| octo | female | aehplus | pef | gait | 1 |

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

# female

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| ab | Covar (Levels) | -79.93 (19.18) <.01 | --- |
| ab | Covar (Slopes) | -3.79 (12.86) .77 | --- |
| ab | Covar (Residuals) | -3.43 (10.65) .75 | --- |
| er | Corr (Levels) | -0.35 (0.08) <.01 | --- |
| er | Corr (Slopes) | -0.58 (0.91) .52 | --- |
| er | Corr (Residuals) | -0.02 (0.07) .75 | --- |
| a | Level | 327.17 (8.63) <.01 | 327.17(NA) |
| a | Slope | -7.54 (2.19) <.01 | -7.54(NA) |
| a | Level \* age | -6.12 (1.86) <.01 | -6.12(NA) |
| a | Level \* education | 5.66 (2.64) .03 | 5.66(NA) |
| a | Level \* height | 2.62 (0.98) .01 | 2.62(NA) |
| a | Level \* smoking | -34.61 (12.78) .01 | -34.61(NA) |
| a | Level \* cardio | 3.25 (10.29) .75 | 3.25(NA) |
| a | Level \* diabetes | 1.86 (16.37) .91 | 1.86(NA) |
| a | Slope \* age | 0.82 (0.46) .07 | 0.82(NA) |
| a | Slope \* education | -0.16 (0.57) .78 | -0.16(NA) |
| a | Slope \* height | -0.25 (0.23) .28 | -0.25(NA) |
| a | Slope \* smoking | -3.87 (2.36) .10 | -3.87(NA) |
| a | Slope \* cardio | -2.27 (2.08) .27 | -2.27(NA) |
| a | Slope \* diabetes | 1.14 (6.35) .86 | 1.14(NA) |
| b | Level | 10.30 (0.47) <.01 | --- |
| b | Slope | 0.54 (0.32) .09 | --- |
| b | Level \* age | 0.32 (0.09) <.01 | --- |
| b | Level \* education | -0.31 (0.13) .01 | --- |
| b | Level \* height | -0.04 (0.05) .42 | --- |
| b | Level \* smoking | 0.01 (0.74) .99 | --- |
| b | Level \* cardio | 0.74 (0.52) .15 | --- |
| b | Level \* diabetes | 1.68 (1.41) .23 | --- |
| b | Slope \* age | -0.01 (0.04) .86 | --- |
| b | Slope \* education | -0.03 (0.05) .56 | --- |
| b | Slope \* height | 0.01 (0.02) .65 | --- |
| b | Slope \* smoking | 0.08 (0.19) .67 | --- |
| b | Slope \* cardio | -0.19 (0.23) .40 | --- |
| b | Slope \* diabetes | 1.01 (0.89) .26 | --- |
| a | Var (Level) | 4215.38 (488.82) <.01 | 4215.38(NA) |
| a | Var (Slope) | 39.57 (68.79) .56 | 39.57(NA) |
| a | Var (Residual) | 2105.13 (197.62) <.01 | 2105.13(NA) |
| b | Var (Level) | 12.11 (3.72) <.01 | --- |
| b | Var (Slope) | 1.07 (2.13) .62 | --- |
| b | Var (Residual) | 11.12 (2.69) <.01 | --- |
| a | Covar (Level, Slope) | -126.12 (106.82) .24 | -126.12(NA) |
| b | Covar (Level, Slope) | 3.30 (3.87) .39 | --- |
|  | Correlation of Levels | -0.354 | -0.35(NA) |
|  | Correlation of Slopes | -0.583 | -0.58(NA) |
|  | Correlation of Residuals | -0.022 | -0.02(NA) |
|  | N | 263 | 263.00(NA) |
|  | occasions | 5 | 5.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -6,297 | -6,297(NA) |
|  | AIC | 12,676 | 12,676(NA) |
|  | BIC | 12,823 | 12,823(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | -79.93 (19.18) <.01 |
| ab | Covar (Slopes) | -3.79 (12.86) .77 |
| ab | Covar (Residuals) | -3.43 (10.65) .75 |
| er | Corr (Levels) | -0.35 (0.08) <.01 |
| er | Corr (Slopes) | -0.58 (0.91) .52 |
| er | Corr (Residuals) | -0.02 (0.07) .75 |
| a | Level | 327.17 (8.63) <.01 |
| a | Slope | -7.54 (2.19) <.01 |
| a | Level \* age | -6.12 (1.86) <.01 |
| a | Level \* education | 5.66 (2.64) .03 |
| a | Level \* height | 2.62 (0.98) .01 |
| a | Level \* smoking | -34.61 (12.78) .01 |
| a | Level \* cardio | 3.25 (10.29) .75 |
| a | Level \* diabetes | 1.86 (16.37) .91 |
| a | Slope \* age | 0.82 (0.46) .07 |
| a | Slope \* education | -0.16 (0.57) .78 |
| a | Slope \* height | -0.25 (0.23) .28 |
| a | Slope \* smoking | -3.87 (2.36) .10 |
| a | Slope \* cardio | -2.27 (2.08) .27 |
| a | Slope \* diabetes | 1.14 (6.35) .86 |
| b | Level | 10.30 (0.47) <.01 |
| b | Slope | 0.54 (0.32) .09 |
| b | Level \* age | 0.32 (0.09) <.01 |
| b | Level \* education | -0.31 (0.13) .01 |
| b | Level \* height | -0.04 (0.05) .42 |
| b | Level \* smoking | 0.01 (0.74) .99 |
| b | Level \* cardio | 0.74 (0.52) .15 |
| b | Level \* diabetes | 1.68 (1.41) .23 |
| b | Slope \* age | -0.01 (0.04) .86 |
| b | Slope \* education | -0.03 (0.05) .56 |
| b | Slope \* height | 0.01 (0.02) .65 |
| b | Slope \* smoking | 0.08 (0.19) .67 |
| b | Slope \* cardio | -0.19 (0.23) .40 |
| b | Slope \* diabetes | 1.01 (0.89) .26 |
| a | Var (Level) | 4215.38 (488.82) <.01 |
| a | Var (Slope) | 39.57 (68.79) .56 |
| a | Var (Residual) | 2105.13 (197.62) <.01 |
| b | Var (Level) | 12.11 (3.72) <.01 |
| b | Var (Slope) | 1.07 (2.13) .62 |
| b | Var (Residual) | 11.12 (2.69) <.01 |
| a | Covar (Level, Slope) | -126.12 (106.82) .24 |
| b | Covar (Level, Slope) | 3.30 (3.87) .39 |
|  | Correlation of Levels | -0.354 |
|  | Correlation of Slopes | -0.583 |
|  | Correlation of Residuals | -0.022 |
|  | N | 263 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -6,297 |
|  | AIC | 12,676 |
|  | BIC | 12,823 |

# male

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| ab | Covar (Levels) | -70.87 (34.39) .04 | --- |
| ab | Covar (Slopes) | -1.34 (0.94) .15 | --- |
| ab | Covar (Residuals) | -6.48 (11.36) .57 | --- |
| er | Corr (Levels) | -0.38 (0.15) .01 | --- |
| er | Corr (Slopes) | -0.79 (0.17) <.01 | --- |
| er | Corr (Residuals) | -0.05 (0.08) .56 | --- |
| a | Level | 443.45 (28.24) <.01 | 443.45(NA) |
| a | Slope | -7.54 (4.43) .09 | -7.54(NA) |
| a | Level \* age | -11.40 (4.15) .01 | -11.40(NA) |
| a | Level \* education | 7.04 (2.11) <.01 | 7.04(NA) |
| a | Level \* height | 2.13 (1.48) .15 | 2.13(NA) |
| a | Level \* smoking | -38.37 (21.57) .07 | -38.37(NA) |
| a | Level \* cardio | -19.93 (19.56) .31 | -19.93(NA) |
| a | Level \* diabetes | 39.27 (27.97) .16 | 39.27(NA) |
| a | Slope \* age | 0.17 (0.99) .87 | 0.17(NA) |
| a | Slope \* education | -0.58 (0.57) .31 | -0.58(NA) |
| a | Slope \* height | 0.22 (0.26) .39 | 0.22(NA) |
| a | Slope \* smoking | -4.06 (3.54) .25 | -4.06(NA) |
| a | Slope \* cardio | -2.70 (3.13) .39 | -2.70(NA) |
| a | Slope \* diabetes | -5.70 (3.88) .14 | -5.70(NA) |
| b | Level | 9.17 (0.64) <.01 | --- |
| b | Slope | 0.18 (0.18) .31 | --- |
| b | Level \* age | 0.27 (0.10) .01 | --- |
| b | Level \* education | -0.09 (0.10) .36 | --- |
| b | Level \* height | -0.06 (0.04) .18 | --- |
| b | Level \* smoking | 1.06 (0.56) .06 | --- |
| b | Level \* cardio | 1.24 (0.52) .02 | --- |
| b | Level \* diabetes | 1.25 (0.80) .12 | --- |
| b | Slope \* age | -0.01 (0.03) .85 | --- |
| b | Slope \* education | 0.01 (0.02) .78 | --- |
| b | Slope \* height | 0.01 (0.01) .53 | --- |
| b | Slope \* smoking | -0.10 (0.14) .49 | --- |
| b | Slope \* cardio | 0.25 (0.15) .09 | --- |
| b | Slope \* diabetes | 0.11 (0.23) .62 | --- |
| a | Var (Level) | 8329.51 (1416.88) <.01 | 8329.51(NA) |
| a | Var (Slope) | 36.14 (20.55) .08 | 36.14(NA) |
| a | Var (Residual) | 3319.17 (416.82) <.01 | 3319.17(NA) |
| b | Var (Level) | 4.25 (1.30) <.01 | --- |
| b | Var (Slope) | 0.08 (0.07) .24 | --- |
| b | Var (Residual) | 6.10 (1.04) <.01 | --- |
| a | Covar (Level, Slope) | -268.96 (157.76) .09 | -268.96(NA) |
| b | Covar (Level, Slope) | 0.01 (0.30) .97 | --- |
|  | Correlation of Levels | -0.377 | -0.38(NA) |
|  | Correlation of Slopes | -0.793 | -0.79(NA) |
|  | Correlation of Residuals | -0.046 | -0.05(NA) |
|  | N | 132 | 132.00(NA) |
|  | occasions | 5 | 5.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -3,031 | -3,031(NA) |
|  | AIC | 6,143 | 6,143(NA) |
|  | BIC | 6,262 | 6,262(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | -70.87 (34.39) .04 |
| ab | Covar (Slopes) | -1.34 (0.94) .15 |
| ab | Covar (Residuals) | -6.48 (11.36) .57 |
| er | Corr (Levels) | -0.38 (0.15) .01 |
| er | Corr (Slopes) | -0.79 (0.17) <.01 |
| er | Corr (Residuals) | -0.05 (0.08) .56 |
| a | Level | 443.45 (28.24) <.01 |
| a | Slope | -7.54 (4.43) .09 |
| a | Level \* age | -11.40 (4.15) .01 |
| a | Level \* education | 7.04 (2.11) <.01 |
| a | Level \* height | 2.13 (1.48) .15 |
| a | Level \* smoking | -38.37 (21.57) .07 |
| a | Level \* cardio | -19.93 (19.56) .31 |
| a | Level \* diabetes | 39.27 (27.97) .16 |
| a | Slope \* age | 0.17 (0.99) .87 |
| a | Slope \* education | -0.58 (0.57) .31 |
| a | Slope \* height | 0.22 (0.26) .39 |
| a | Slope \* smoking | -4.06 (3.54) .25 |
| a | Slope \* cardio | -2.70 (3.13) .39 |
| a | Slope \* diabetes | -5.70 (3.88) .14 |
| b | Level | 9.17 (0.64) <.01 |
| b | Slope | 0.18 (0.18) .31 |
| b | Level \* age | 0.27 (0.10) .01 |
| b | Level \* education | -0.09 (0.10) .36 |
| b | Level \* height | -0.06 (0.04) .18 |
| b | Level \* smoking | 1.06 (0.56) .06 |
| b | Level \* cardio | 1.24 (0.52) .02 |
| b | Level \* diabetes | 1.25 (0.80) .12 |
| b | Slope \* age | -0.01 (0.03) .85 |
| b | Slope \* education | 0.01 (0.02) .78 |
| b | Slope \* height | 0.01 (0.01) .53 |
| b | Slope \* smoking | -0.10 (0.14) .49 |
| b | Slope \* cardio | 0.25 (0.15) .09 |
| b | Slope \* diabetes | 0.11 (0.23) .62 |
| a | Var (Level) | 8329.51 (1416.88) <.01 |
| a | Var (Slope) | 36.14 (20.55) .08 |
| a | Var (Residual) | 3319.17 (416.82) <.01 |
| b | Var (Level) | 4.25 (1.30) <.01 |
| b | Var (Slope) | 0.08 (0.07) .24 |
| b | Var (Residual) | 6.10 (1.04) <.01 |
| a | Covar (Level, Slope) | -268.96 (157.76) .09 |
| b | Covar (Level, Slope) | 0.01 (0.30) .97 |
|  | Correlation of Levels | -0.377 |
|  | Correlation of Slopes | -0.793 |
|  | Correlation of Residuals | -0.046 |
|  | N | 132 |
|  | occasions | 5 |
|  | parameters | 41 |
|  | LL | -3,031 |
|  | AIC | 6,143 |
|  | BIC | 6,262 |

#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] knitr\_1.14 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4 ggplot2\_2.1.0   
[9] magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 formatR\_1.4 highr\_0.6 plyr\_1.8.4 zlibbioc\_1.18.0 tools\_3.3.1   
 [7] boot\_1.3-18 digest\_0.6.10 jsonlite\_1.1 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0   
[13] lattice\_0.20-34 texreg\_1.36.7 DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 Rttf2pt1\_1.3.4   
[19] coda\_0.18-1 dplyr\_0.5.0 stringr\_1.1.0 htmlwidgets\_0.7 cowplot\_0.6.3 DT\_0.2   
[25] R6\_2.2.0 rmarkdown\_1.1 gsubfn\_0.6-6 extrafontdb\_1.0 pander\_0.6.0 tidyr\_0.6.0   
[31] readr\_1.0.0 scales\_0.4.0 htmltools\_0.3.5 rsconnect\_0.5 assertthat\_0.1 testit\_0.5   
[37] colorspace\_1.2-7 xtable\_1.8-2 labeling\_0.3 stringi\_1.1.2 lazyeval\_0.2.0 munsell\_0.4.3