HRS : Seed Report

Date: 2016-10-31

Table of Contents

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

# grip : Available models

Study **HRS** 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 |
| hrs | female | aehplus | grip | gait | 1 |
| hrs | female | aehplus | grip | pef | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| hrs | male | aehplus | grip | gait | 1 |
| hrs | 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) | 0.09 (0.06) .12 | 53.68 (17.29) <.01 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .90 | -0.38 (0.73) .60 | --- |
| ab | Covar (Residuals) | 0.01 (0.02) .72 | 9.96 (8.03) .21 | --- |
| er | Corr (Levels) | 0.21 (0.13) .12 | 0.29 (0.09) <.01 | --- |
| er | Corr (Slopes) | 0.13 (1.00) .90 | -0.52 (1.12) .64 | --- |
| er | Corr (Residuals) | 0.02 (0.05) .72 | 0.08 (0.07) .22 | --- |
| a | Level | 22.77 (0.60) <.01 | 22.77 (0.59) <.01 | 22.77(0.00) |
| a | Slope | -0.29 (0.12) .01 | -0.28 (0.12) .02 | -0.29(0.01) |
| a | Level \* age | -0.27 (0.04) <.01 | -0.27 (0.04) <.01 | -0.27(0.00) |
| a | Level \* education | -0.06 (0.08) .43 | -0.06 (0.08) .42 | -0.06(0.00) |
| a | Level \* height | 9.51 (4.96) .06 | 9.50 (4.95) .06 | 9.50(0.01) |
| a | Level \* smoking | 0.06 (0.52) .90 | 0.06 (0.52) .90 | 0.06(0.00) |
| a | Level \* cardio | -0.66 (0.54) .22 | -0.65 (0.54) .23 | -0.66(0.00) |
| a | Level \* diabetes | -0.22 (0.65) .73 | -0.20 (0.65) .76 | -0.21(0.01) |
| a | Slope \* age | -0.01 (0.01) .29 | -0.01 (0.01) .32 | -0.01(0.00) |
| a | Slope \* education | -0.02 (0.02) .17 | -0.02 (0.02) .17 | -0.02(0.00) |
| a | Slope \* height | 1.38 (0.86) .11 | 1.39 (0.86) .10 | 1.39(0.01) |
| a | Slope \* smoking | 0.01 (0.10) .92 | 0.00 (0.10) .96 | 0.01(0.00) |
| a | Slope \* cardio | -0.05 (0.12) .68 | -0.04 (0.13) .73 | -0.05(0.00) |
| a | Slope \* diabetes | -0.17 (0.11) .12 | -0.19 (0.11) .10 | -0.18(0.01) |
| b | Level | 0.77 (0.02) <.01 | 253.71 (9.87) <.01 | --- |
| b | Slope | -0.04 (0.00) <.01 | -2.86 (1.81) .11 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | -3.23 (0.60) <.01 | --- |
| b | Level \* education | 0.02 (0.00) <.01 | 3.92 (1.35) <.01 | --- |
| b | Level \* height | 0.08 (0.18) .67 | 83.28 (53.59) .12 | --- |
| b | Level \* smoking | -0.03 (0.02) .17 | -18.82 (8.28) .02 | --- |
| b | Level \* cardio | -0.04 (0.03) .16 | -5.70 (9.46) .55 | --- |
| b | Level \* diabetes | -0.05 (0.03) .11 | 1.54 (10.49) .88 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | -0.47 (0.09) <.01 | --- |
| b | Slope \* education | 0.00 (0.00) .12 | -0.07 (0.27) .79 | --- |
| b | Slope \* height | -0.03 (0.04) .54 | 14.84 (8.36) .08 | --- |
| b | Slope \* smoking | -0.00 (0.01) .84 | -0.71 (1.29) .58 | --- |
| b | Slope \* cardio | 0.00 (0.01) .76 | 0.05 (1.72) .98 | --- |
| b | Slope \* diabetes | -0.00 (0.01) .87 | -1.32 (1.60) .41 | --- |
| a | Var (Level) | 11.07 (1.47) <.01 | 11.14 (1.47) <.01 | 11.11(0.06) |
| a | Var (Slope) | 0.05 (0.09) .55 | 0.06 (0.09) .49 | 0.05(0.01) |
| a | Var (Residual) | 8.35 (0.90) <.01 | 8.31 (0.90) <.01 | 8.33(0.02) |
| b | Var (Level) | 0.02 (0.00) <.01 | 3093.09 (397.97) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .64 | 9.11 (15.74) .56 | --- |
| b | Var (Residual) | 0.03 (0.00) <.01 | 1752.06 (206.22) <.01 | --- |
| a | Covar (Level, Slope) | 0.19 (0.28) .50 | 0.14 (0.29) .62 | 0.16(0.03) |
| b | Covar (Level, Slope) | 0.00 (0.00) .97 | -0.22 (54.81) .99 | --- |
|  | Correlation of Levels | 0.208 | 0.289 | 0.25(0.06) |
|  | Correlation of Slopes | NaN | -0.525 | -0.53(NA) |
|  | Correlation of Residuals | 0.019 | 0.083 | 0.05(0.04) |
|  | N | 285 | 285 | 285.00(0.00) |
|  | occasions | 3 | 3 | 3.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -1,969 | -6,466 | -4,218(3,180) |
|  | AIC | 4,021 | 13,014 | 8,518(6,359) |
|  | BIC | 4,171 | 13,164 | 8,667(6,359) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 0.09 (0.06) .12 |
| ab | Covar (Slopes) | 0.00 (0.00) .90 |
| ab | Covar (Residuals) | 0.01 (0.02) .72 |
| er | Corr (Levels) | 0.21 (0.13) .12 |
| er | Corr (Slopes) | 0.13 (1.00) .90 |
| er | Corr (Residuals) | 0.02 (0.05) .72 |
| a | Level | 22.77 (0.60) <.01 |
| a | Slope | -0.29 (0.12) .01 |
| a | Level \* age | -0.27 (0.04) <.01 |
| a | Level \* education | -0.06 (0.08) .43 |
| a | Level \* height | 9.51 (4.96) .06 |
| a | Level \* smoking | 0.06 (0.52) .90 |
| a | Level \* cardio | -0.66 (0.54) .22 |
| a | Level \* diabetes | -0.22 (0.65) .73 |
| a | Slope \* age | -0.01 (0.01) .29 |
| a | Slope \* education | -0.02 (0.02) .17 |
| a | Slope \* height | 1.38 (0.86) .11 |
| a | Slope \* smoking | 0.01 (0.10) .92 |
| a | Slope \* cardio | -0.05 (0.12) .68 |
| a | Slope \* diabetes | -0.17 (0.11) .12 |
| b | Level | 0.77 (0.02) <.01 |
| b | Slope | -0.04 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.02 (0.00) <.01 |
| b | Level \* height | 0.08 (0.18) .67 |
| b | Level \* smoking | -0.03 (0.02) .17 |
| b | Level \* cardio | -0.04 (0.03) .16 |
| b | Level \* diabetes | -0.05 (0.03) .11 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .12 |
| b | Slope \* height | -0.03 (0.04) .54 |
| b | Slope \* smoking | -0.00 (0.01) .84 |
| b | Slope \* cardio | 0.00 (0.01) .76 |
| b | Slope \* diabetes | -0.00 (0.01) .87 |
| a | Var (Level) | 11.07 (1.47) <.01 |
| a | Var (Slope) | 0.05 (0.09) .55 |
| a | Var (Residual) | 8.35 (0.90) <.01 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .64 |
| b | Var (Residual) | 0.03 (0.00) <.01 |
| a | Covar (Level, Slope) | 0.19 (0.28) .50 |
| b | Covar (Level, Slope) | 0.00 (0.00) .97 |
|  | Correlation of Levels | 0.208 |
|  | Correlation of Slopes | NaN |
|  | Correlation of Residuals | 0.019 |
|  | N | 285 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -1,969 |
|  | AIC | 4,021 |
|  | BIC | 4,171 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 53.68 (17.29) <.01 |
| ab | Covar (Slopes) | -0.38 (0.73) .60 |
| ab | Covar (Residuals) | 9.96 (8.03) .21 |
| er | Corr (Levels) | 0.29 (0.09) <.01 |
| er | Corr (Slopes) | -0.52 (1.12) .64 |
| er | Corr (Residuals) | 0.08 (0.07) .22 |
| a | Level | 22.77 (0.59) <.01 |
| a | Slope | -0.28 (0.12) .02 |
| a | Level \* age | -0.27 (0.04) <.01 |
| a | Level \* education | -0.06 (0.08) .42 |
| a | Level \* height | 9.50 (4.95) .06 |
| a | Level \* smoking | 0.06 (0.52) .90 |
| a | Level \* cardio | -0.65 (0.54) .23 |
| a | Level \* diabetes | -0.20 (0.65) .76 |
| a | Slope \* age | -0.01 (0.01) .32 |
| a | Slope \* education | -0.02 (0.02) .17 |
| a | Slope \* height | 1.39 (0.86) .10 |
| a | Slope \* smoking | 0.00 (0.10) .96 |
| a | Slope \* cardio | -0.04 (0.13) .73 |
| a | Slope \* diabetes | -0.19 (0.11) .10 |
| b | Level | 253.71 (9.87) <.01 |
| b | Slope | -2.86 (1.81) .11 |
| b | Level \* age | -3.23 (0.60) <.01 |
| b | Level \* education | 3.92 (1.35) <.01 |
| b | Level \* height | 83.28 (53.59) .12 |
| b | Level \* smoking | -18.82 (8.28) .02 |
| b | Level \* cardio | -5.70 (9.46) .55 |
| b | Level \* diabetes | 1.54 (10.49) .88 |
| b | Slope \* age | -0.47 (0.09) <.01 |
| b | Slope \* education | -0.07 (0.27) .79 |
| b | Slope \* height | 14.84 (8.36) .08 |
| b | Slope \* smoking | -0.71 (1.29) .58 |
| b | Slope \* cardio | 0.05 (1.72) .98 |
| b | Slope \* diabetes | -1.32 (1.60) .41 |
| a | Var (Level) | 11.14 (1.47) <.01 |
| a | Var (Slope) | 0.06 (0.09) .49 |
| a | Var (Residual) | 8.31 (0.90) <.01 |
| b | Var (Level) | 3093.09 (397.97) <.01 |
| b | Var (Slope) | 9.11 (15.74) .56 |
| b | Var (Residual) | 1752.06 (206.22) <.01 |
| a | Covar (Level, Slope) | 0.14 (0.29) .62 |
| b | Covar (Level, Slope) | -0.22 (54.81) .99 |
|  | Correlation of Levels | 0.289 |
|  | Correlation of Slopes | -0.525 |
|  | Correlation of Residuals | 0.083 |
|  | N | 285 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -6,466 |
|  | AIC | 13,014 |
|  | BIC | 13,164 |

# male

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | gait | pef | mean(sd) |
| ab | Covar (Levels) | 0.12 (0.09) .18 | 50.22 (36.70) .17 | --- |
| ab | Covar (Slopes) | 0.00 (0.00) .89 | -0.18 (1.15) .87 | --- |
| ab | Covar (Residuals) | 0.04 (0.04) .39 | 25.03 (15.29) .10 | --- |
| er | Corr (Levels) | 0.15 (0.11) .17 | 0.11 (0.08) .16 | --- |
| er | Corr (Slopes) | 0.10 (0.76) .89 | -0.16 (1.17) .89 | --- |
| er | Corr (Residuals) | 0.06 (0.07) .38 | 0.12 (0.07) .09 | --- |
| a | Level | 34.86 (1.16) <.01 | 34.88 (1.16) <.01 | 34.87(0.02) |
| a | Slope | -0.72 (0.19) <.01 | -0.72 (0.19) <.01 | -0.72(0.00) |
| a | Level \* age | -0.52 (0.08) <.01 | -0.52 (0.08) <.01 | -0.52(0.00) |
| a | Level \* education | 0.06 (0.13) .61 | 0.06 (0.13) .62 | 0.06(0.00) |
| a | Level \* height | 25.43 (6.70) <.01 | 25.27 (6.68) <.01 | 25.35(0.11) |
| a | Level \* smoking | 1.10 (0.87) .20 | 1.09 (0.87) .21 | 1.10(0.01) |
| a | Level \* cardio | 1.92 (0.81) .02 | 1.92 (0.81) .02 | 1.92(0.00) |
| a | Level \* diabetes | -3.04 (1.11) .01 | -3.06 (1.10) .01 | -3.05(0.01) |
| a | Slope \* age | -0.01 (0.01) .21 | -0.01 (0.01) .21 | -0.01(0.00) |
| a | Slope \* education | -0.02 (0.02) .32 | -0.02 (0.02) .30 | -0.02(0.00) |
| a | Slope \* height | 0.12 (0.90) .89 | 0.16 (0.90) .86 | 0.14(0.03) |
| a | Slope \* smoking | -0.09 (0.15) .56 | -0.08 (0.15) .56 | -0.09(0.00) |
| a | Slope \* cardio | -0.26 (0.13) .05 | -0.25 (0.13) .06 | -0.25(0.00) |
| a | Slope \* diabetes | 0.03 (0.18) .88 | 0.03 (0.18) .88 | 0.03(0.00) |
| b | Level | 0.83 (0.04) <.01 | 344.86 (18.02) <.01 | --- |
| b | Slope | -0.02 (0.01) <.01 | -5.85 (2.89) .04 | --- |
| b | Level \* age | -0.00 (0.00) .05 | -4.15 (1.06) <.01 | --- |
| b | Level \* education | 0.01 (0.00) .08 | 7.91 (1.95) <.01 | --- |
| b | Level \* height | 0.12 (0.20) .55 | 172.84 (83.36) .04 | --- |
| b | Level \* smoking | 0.02 (0.03) .43 | -6.61 (13.86) .63 | --- |
| b | Level \* cardio | -0.03 (0.03) .30 | 11.55 (13.49) .39 | --- |
| b | Level \* diabetes | -0.04 (0.03) .24 | -18.53 (15.70) .24 | --- |
| b | Slope \* age | -0.00 (0.00) .04 | -0.04 (0.15) .79 | --- |
| b | Slope \* education | 0.00 (0.00) .16 | -0.12 (0.35) .73 | --- |
| b | Slope \* height | -0.03 (0.05) .51 | 14.12 (12.62) .26 | --- |
| b | Slope \* smoking | -0.01 (0.01) .40 | 0.96 (2.09) .65 | --- |
| b | Slope \* cardio | 0.00 (0.01) .74 | -1.82 (1.99) .36 | --- |
| b | Slope \* diabetes | -0.01 (0.01) .15 | -0.54 (2.44) .82 | --- |
| a | Var (Level) | 27.59 (3.95) <.01 | 27.52 (3.95) <.01 | 27.56(0.05) |
| a | Var (Slope) | 0.03 (0.16) .83 | 0.04 (0.16) .81 | 0.04(0.00) |
| a | Var (Residual) | 15.21 (2.16) <.01 | 15.18 (2.17) <.01 | 15.19(0.02) |
| b | Var (Level) | 0.02 (0.00) <.01 | 7604.97 (918.54) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .04 | 33.33 (34.28) .33 | --- |
| b | Var (Residual) | 0.03 (0.00) <.01 | 3000.28 (409.44) <.01 | --- |
| a | Covar (Level, Slope) | 0.46 (0.51) .36 | 0.46 (0.51) .37 | 0.46(0.00) |
| b | Covar (Level, Slope) | -0.00 (0.00) .21 | 50.15 (135.23) .71 | --- |
|  | Correlation of Levels | 0.154 | 0.11 | 0.13(0.03) |
|  | Correlation of Slopes | 0.000 | -0.16 | -0.08(0.11) |
|  | Correlation of Residuals | 0.057 | 0.12 | 0.09(0.04) |
|  | N | 236 | 236 | 236.00(0.00) |
|  | occasions | 3 | 3 | 3.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -1,936 | -5,908 | -3,922(2,809) |
|  | AIC | 3,953 | 11,898 | 7,926(5,618) |
|  | BIC | 4,095 | 12,040 | 8,068(5,618) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 0.12 (0.09) .18 |
| ab | Covar (Slopes) | 0.00 (0.00) .89 |
| ab | Covar (Residuals) | 0.04 (0.04) .39 |
| er | Corr (Levels) | 0.15 (0.11) .17 |
| er | Corr (Slopes) | 0.10 (0.76) .89 |
| er | Corr (Residuals) | 0.06 (0.07) .38 |
| a | Level | 34.86 (1.16) <.01 |
| a | Slope | -0.72 (0.19) <.01 |
| a | Level \* age | -0.52 (0.08) <.01 |
| a | Level \* education | 0.06 (0.13) .61 |
| a | Level \* height | 25.43 (6.70) <.01 |
| a | Level \* smoking | 1.10 (0.87) .20 |
| a | Level \* cardio | 1.92 (0.81) .02 |
| a | Level \* diabetes | -3.04 (1.11) .01 |
| a | Slope \* age | -0.01 (0.01) .21 |
| a | Slope \* education | -0.02 (0.02) .32 |
| a | Slope \* height | 0.12 (0.90) .89 |
| a | Slope \* smoking | -0.09 (0.15) .56 |
| a | Slope \* cardio | -0.26 (0.13) .05 |
| a | Slope \* diabetes | 0.03 (0.18) .88 |
| b | Level | 0.83 (0.04) <.01 |
| b | Slope | -0.02 (0.01) <.01 |
| b | Level \* age | -0.00 (0.00) .05 |
| b | Level \* education | 0.01 (0.00) .08 |
| b | Level \* height | 0.12 (0.20) .55 |
| b | Level \* smoking | 0.02 (0.03) .43 |
| b | Level \* cardio | -0.03 (0.03) .30 |
| b | Level \* diabetes | -0.04 (0.03) .24 |
| b | Slope \* age | -0.00 (0.00) .04 |
| b | Slope \* education | 0.00 (0.00) .16 |
| b | Slope \* height | -0.03 (0.05) .51 |
| b | Slope \* smoking | -0.01 (0.01) .40 |
| b | Slope \* cardio | 0.00 (0.01) .74 |
| b | Slope \* diabetes | -0.01 (0.01) .15 |
| a | Var (Level) | 27.59 (3.95) <.01 |
| a | Var (Slope) | 0.03 (0.16) .83 |
| a | Var (Residual) | 15.21 (2.16) <.01 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .04 |
| b | Var (Residual) | 0.03 (0.00) <.01 |
| a | Covar (Level, Slope) | 0.46 (0.51) .36 |
| b | Covar (Level, Slope) | -0.00 (0.00) .21 |
|  | Correlation of Levels | 0.154 |
|  | Correlation of Slopes | 0.000 |
|  | Correlation of Residuals | 0.057 |
|  | N | 236 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -1,936 |
|  | AIC | 3,953 |
|  | BIC | 4,095 |

## pef

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 50.22 (36.70) .17 |
| ab | Covar (Slopes) | -0.18 (1.15) .87 |
| ab | Covar (Residuals) | 25.03 (15.29) .10 |
| er | Corr (Levels) | 0.11 (0.08) .16 |
| er | Corr (Slopes) | -0.16 (1.17) .89 |
| er | Corr (Residuals) | 0.12 (0.07) .09 |
| a | Level | 34.88 (1.16) <.01 |
| a | Slope | -0.72 (0.19) <.01 |
| a | Level \* age | -0.52 (0.08) <.01 |
| a | Level \* education | 0.06 (0.13) .62 |
| a | Level \* height | 25.27 (6.68) <.01 |
| a | Level \* smoking | 1.09 (0.87) .21 |
| a | Level \* cardio | 1.92 (0.81) .02 |
| a | Level \* diabetes | -3.06 (1.10) .01 |
| a | Slope \* age | -0.01 (0.01) .21 |
| a | Slope \* education | -0.02 (0.02) .30 |
| a | Slope \* height | 0.16 (0.90) .86 |
| a | Slope \* smoking | -0.08 (0.15) .56 |
| a | Slope \* cardio | -0.25 (0.13) .06 |
| a | Slope \* diabetes | 0.03 (0.18) .88 |
| b | Level | 344.86 (18.02) <.01 |
| b | Slope | -5.85 (2.89) .04 |
| b | Level \* age | -4.15 (1.06) <.01 |
| b | Level \* education | 7.91 (1.95) <.01 |
| b | Level \* height | 172.84 (83.36) .04 |
| b | Level \* smoking | -6.61 (13.86) .63 |
| b | Level \* cardio | 11.55 (13.49) .39 |
| b | Level \* diabetes | -18.53 (15.70) .24 |
| b | Slope \* age | -0.04 (0.15) .79 |
| b | Slope \* education | -0.12 (0.35) .73 |
| b | Slope \* height | 14.12 (12.62) .26 |
| b | Slope \* smoking | 0.96 (2.09) .65 |
| b | Slope \* cardio | -1.82 (1.99) .36 |
| b | Slope \* diabetes | -0.54 (2.44) .82 |
| a | Var (Level) | 27.52 (3.95) <.01 |
| a | Var (Slope) | 0.04 (0.16) .81 |
| a | Var (Residual) | 15.18 (2.17) <.01 |
| b | Var (Level) | 7604.97 (918.54) <.01 |
| b | Var (Slope) | 33.33 (34.28) .33 |
| b | Var (Residual) | 3000.28 (409.44) <.01 |
| a | Covar (Level, Slope) | 0.46 (0.51) .37 |
| b | Covar (Level, Slope) | 50.15 (135.23) .71 |
|  | Correlation of Levels | 0.11 |
|  | Correlation of Slopes | -0.16 |
|  | Correlation of Residuals | 0.12 |
|  | N | 236 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -5,908 |
|  | AIC | 11,898 |
|  | BIC | 12,040 |

# pef : Available models

Study **HRS** 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 |
| hrs | female | aehplus | pef | gait | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| hrs | 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) | 2.10 (0.88) .02 | --- |
| ab | Covar (Slopes) | 0.02 (0.04) .63 | --- |
| ab | Covar (Residuals) | 0.96 (0.42) .02 | --- |
| er | Corr (Levels) | 0.29 (0.11) .01 | --- |
| er | Corr (Slopes) | 0.58 (1.21) .63 | --- |
| er | Corr (Residuals) | 0.14 (0.06) .02 | --- |
| a | Level | 253.63 (9.88) <.01 | 253.63(NA) |
| a | Slope | -2.91 (1.82) .11 | -2.91(NA) |
| a | Level \* age | -3.24 (0.60) <.01 | -3.24(NA) |
| a | Level \* education | 3.94 (1.36) <.01 | 3.94(NA) |
| a | Level \* height | 82.39 (53.72) .12 | 82.39(NA) |
| a | Level \* smoking | -18.76 (8.29) .02 | -18.76(NA) |
| a | Level \* cardio | -5.48 (9.48) .56 | -5.48(NA) |
| a | Level \* diabetes | 1.38 (10.51) .90 | 1.38(NA) |
| a | Slope \* age | -0.47 (0.09) <.01 | -0.47(NA) |
| a | Slope \* education | -0.06 (0.27) .82 | -0.06(NA) |
| a | Slope \* height | 14.70 (8.37) .08 | 14.70(NA) |
| a | Slope \* smoking | -0.74 (1.30) .57 | -0.74(NA) |
| a | Slope \* cardio | 0.01 (1.72) .99 | 0.01(NA) |
| a | Slope \* diabetes | -1.36 (1.61) .40 | -1.36(NA) |
| b | Level | 0.77 (0.02) <.01 | --- |
| b | Slope | -0.04 (0.00) <.01 | --- |
| b | Level \* age | -0.01 (0.00) <.01 | --- |
| b | Level \* education | 0.02 (0.00) <.01 | --- |
| b | Level \* height | 0.09 (0.18) .64 | --- |
| b | Level \* smoking | -0.03 (0.02) .17 | --- |
| b | Level \* cardio | -0.04 (0.03) .16 | --- |
| b | Level \* diabetes | -0.04 (0.03) .11 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | --- |
| b | Slope \* education | 0.00 (0.00) .08 | --- |
| b | Slope \* height | -0.03 (0.04) .44 | --- |
| b | Slope \* smoking | -0.00 (0.01) .80 | --- |
| b | Slope \* cardio | 0.00 (0.01) .69 | --- |
| b | Slope \* diabetes | -0.00 (0.01) .78 | --- |
| a | Var (Level) | 3092.00 (396.56) <.01 | 3092.00(NA) |
| a | Var (Slope) | 8.32 (15.77) .60 | 8.32(NA) |
| a | Var (Residual) | 1757.84 (206.47) <.01 | 1757.84(NA) |
| b | Var (Level) | 0.02 (0.00) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .61 | --- |
| b | Var (Residual) | 0.03 (0.00) <.01 | --- |
| a | Covar (Level, Slope) | 1.16 (54.47) .98 | 1.16(NA) |
| b | Covar (Level, Slope) | 0.00 (0.00) .97 | --- |
|  | Correlation of Levels | 0.29 | 0.29(NA) |
|  | Correlation of Slopes | Inf | Inf(NA) |
|  | Correlation of Residuals | 0.14 | 0.14(NA) |
|  | N | 285 | 285.00(NA) |
|  | occasions | 3 | 3.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -4,187 | -4,187(NA) |
|  | AIC | 8,456 | 8,456(NA) |
|  | BIC | 8,605 | 8,605(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 2.10 (0.88) .02 |
| ab | Covar (Slopes) | 0.02 (0.04) .63 |
| ab | Covar (Residuals) | 0.96 (0.42) .02 |
| er | Corr (Levels) | 0.29 (0.11) .01 |
| er | Corr (Slopes) | 0.58 (1.21) .63 |
| er | Corr (Residuals) | 0.14 (0.06) .02 |
| a | Level | 253.63 (9.88) <.01 |
| a | Slope | -2.91 (1.82) .11 |
| a | Level \* age | -3.24 (0.60) <.01 |
| a | Level \* education | 3.94 (1.36) <.01 |
| a | Level \* height | 82.39 (53.72) .12 |
| a | Level \* smoking | -18.76 (8.29) .02 |
| a | Level \* cardio | -5.48 (9.48) .56 |
| a | Level \* diabetes | 1.38 (10.51) .90 |
| a | Slope \* age | -0.47 (0.09) <.01 |
| a | Slope \* education | -0.06 (0.27) .82 |
| a | Slope \* height | 14.70 (8.37) .08 |
| a | Slope \* smoking | -0.74 (1.30) .57 |
| a | Slope \* cardio | 0.01 (1.72) .99 |
| a | Slope \* diabetes | -1.36 (1.61) .40 |
| b | Level | 0.77 (0.02) <.01 |
| b | Slope | -0.04 (0.00) <.01 |
| b | Level \* age | -0.01 (0.00) <.01 |
| b | Level \* education | 0.02 (0.00) <.01 |
| b | Level \* height | 0.09 (0.18) .64 |
| b | Level \* smoking | -0.03 (0.02) .17 |
| b | Level \* cardio | -0.04 (0.03) .16 |
| b | Level \* diabetes | -0.04 (0.03) .11 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.00) .08 |
| b | Slope \* height | -0.03 (0.04) .44 |
| b | Slope \* smoking | -0.00 (0.01) .80 |
| b | Slope \* cardio | 0.00 (0.01) .69 |
| b | Slope \* diabetes | -0.00 (0.01) .78 |
| a | Var (Level) | 3092.00 (396.56) <.01 |
| a | Var (Slope) | 8.32 (15.77) .60 |
| a | Var (Residual) | 1757.84 (206.47) <.01 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .61 |
| b | Var (Residual) | 0.03 (0.00) <.01 |
| a | Covar (Level, Slope) | 1.16 (54.47) .98 |
| b | Covar (Level, Slope) | 0.00 (0.00) .97 |
|  | Correlation of Levels | 0.29 |
|  | Correlation of Slopes | Inf |
|  | Correlation of Residuals | 0.14 |
|  | N | 285 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -4,187 |
|  | AIC | 8,456 |
|  | BIC | 8,605 |

# male

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | gait | mean(sd) |
| ab | Covar (Levels) | 3.90 (1.37) <.01 | --- |
| ab | Covar (Slopes) | 0.13 (0.06) .05 | --- |
| ab | Covar (Residuals) | 0.45 (0.67) .50 | --- |
| er | Corr (Levels) | 0.30 (0.10) <.01 | --- |
| er | Corr (Slopes) | 0.84 (0.48) .08 | --- |
| er | Corr (Residuals) | 0.05 (0.08) .50 | --- |
| a | Level | 345.23 (17.94) <.01 | 345.23(NA) |
| a | Slope | -5.93 (2.88) .04 | -5.93(NA) |
| a | Level \* age | -4.18 (1.06) <.01 | -4.18(NA) |
| a | Level \* education | 7.88 (1.94) <.01 | 7.88(NA) |
| a | Level \* height | 170.27 (83.41) .04 | 170.27(NA) |
| a | Level \* smoking | -6.36 (13.83) .64 | -6.36(NA) |
| a | Level \* cardio | 11.89 (13.46) .38 | 11.89(NA) |
| a | Level \* diabetes | -18.98 (15.71) .23 | -18.98(NA) |
| a | Slope \* age | -0.03 (0.15) .85 | -0.03(NA) |
| a | Slope \* education | -0.13 (0.35) .71 | -0.13(NA) |
| a | Slope \* height | 15.62 (12.64) .22 | 15.62(NA) |
| a | Slope \* smoking | 1.02 (2.09) .62 | 1.02(NA) |
| a | Slope \* cardio | -2.04 (2.00) .31 | -2.04(NA) |
| a | Slope \* diabetes | -0.36 (2.43) .88 | -0.36(NA) |
| b | Level | 0.83 (0.04) <.01 | --- |
| b | Slope | -0.02 (0.01) .01 | --- |
| b | Level \* age | -0.00 (0.00) .05 | --- |
| b | Level \* education | 0.01 (0.00) .08 | --- |
| b | Level \* height | 0.11 (0.20) .57 | --- |
| b | Level \* smoking | 0.02 (0.03) .44 | --- |
| b | Level \* cardio | -0.03 (0.03) .31 | --- |
| b | Level \* diabetes | -0.04 (0.04) .24 | --- |
| b | Slope \* age | -0.00 (0.00) .04 | --- |
| b | Slope \* education | 0.00 (0.00) .21 | --- |
| b | Slope \* height | -0.03 (0.05) .53 | --- |
| b | Slope \* smoking | -0.01 (0.01) .45 | --- |
| b | Slope \* cardio | 0.00 (0.01) .83 | --- |
| b | Slope \* diabetes | -0.01 (0.01) .14 | --- |
| a | Var (Level) | 7548.57 (910.50) <.01 | 7548.57(NA) |
| a | Var (Slope) | 32.80 (34.45) .34 | 32.80(NA) |
| a | Var (Residual) | 3016.01 (413.52) <.01 | 3016.01(NA) |
| b | Var (Level) | 0.02 (0.00) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .02 | --- |
| b | Var (Residual) | 0.02 (0.00) <.01 | --- |
| a | Covar (Level, Slope) | 53.72 (134.00) .69 | 53.72(NA) |
| b | Covar (Level, Slope) | -0.00 (0.00) .16 | --- |
|  | Correlation of Levels | 0.302 | 0.30(NA) |
|  | Correlation of Slopes | 0.701 | 0.70(NA) |
|  | Correlation of Residuals | 0.051 | 0.05(NA) |
|  | N | 236 | 236.00(NA) |
|  | occasions | 3 | 3.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -3,765 | -3,765(NA) |
|  | AIC | 7,612 | 7,612(NA) |
|  | BIC | 7,754 | 7,754(NA) |

## gait

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

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 3.90 (1.37) <.01 |
| ab | Covar (Slopes) | 0.13 (0.06) .05 |
| ab | Covar (Residuals) | 0.45 (0.67) .50 |
| er | Corr (Levels) | 0.30 (0.10) <.01 |
| er | Corr (Slopes) | 0.84 (0.48) .08 |
| er | Corr (Residuals) | 0.05 (0.08) .50 |
| a | Level | 345.23 (17.94) <.01 |
| a | Slope | -5.93 (2.88) .04 |
| a | Level \* age | -4.18 (1.06) <.01 |
| a | Level \* education | 7.88 (1.94) <.01 |
| a | Level \* height | 170.27 (83.41) .04 |
| a | Level \* smoking | -6.36 (13.83) .64 |
| a | Level \* cardio | 11.89 (13.46) .38 |
| a | Level \* diabetes | -18.98 (15.71) .23 |
| a | Slope \* age | -0.03 (0.15) .85 |
| a | Slope \* education | -0.13 (0.35) .71 |
| a | Slope \* height | 15.62 (12.64) .22 |
| a | Slope \* smoking | 1.02 (2.09) .62 |
| a | Slope \* cardio | -2.04 (2.00) .31 |
| a | Slope \* diabetes | -0.36 (2.43) .88 |
| b | Level | 0.83 (0.04) <.01 |
| b | Slope | -0.02 (0.01) .01 |
| b | Level \* age | -0.00 (0.00) .05 |
| b | Level \* education | 0.01 (0.00) .08 |
| b | Level \* height | 0.11 (0.20) .57 |
| b | Level \* smoking | 0.02 (0.03) .44 |
| b | Level \* cardio | -0.03 (0.03) .31 |
| b | Level \* diabetes | -0.04 (0.04) .24 |
| b | Slope \* age | -0.00 (0.00) .04 |
| b | Slope \* education | 0.00 (0.00) .21 |
| b | Slope \* height | -0.03 (0.05) .53 |
| b | Slope \* smoking | -0.01 (0.01) .45 |
| b | Slope \* cardio | 0.00 (0.01) .83 |
| b | Slope \* diabetes | -0.01 (0.01) .14 |
| a | Var (Level) | 7548.57 (910.50) <.01 |
| a | Var (Slope) | 32.80 (34.45) .34 |
| a | Var (Residual) | 3016.01 (413.52) <.01 |
| b | Var (Level) | 0.02 (0.00) <.01 |
| b | Var (Slope) | 0.00 (0.00) .02 |
| b | Var (Residual) | 0.02 (0.00) <.01 |
| a | Covar (Level, Slope) | 53.72 (134.00) .69 |
| b | Covar (Level, Slope) | -0.00 (0.00) .16 |
|  | Correlation of Levels | 0.302 |
|  | Correlation of Slopes | 0.701 |
|  | Correlation of Residuals | 0.051 |
|  | N | 236 |
|  | occasions | 3 |
|  | parameters | 41 |
|  | LL | -3,765 |
|  | AIC | 7,612 |
|  | BIC | 7,754 |

#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