ELSA : Seed report

Date: 2016-10-19

Table of Contents

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

# Available models

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

|  |  |  |
| --- | --- | --- |
| process\_a | process\_b | n\_models |
| fev | word\_de | 2 |
| fev | word\_im | 2 |

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

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

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *fev*; Process (b): *word\_de*, *word\_im*

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

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | word\_de | word\_im | mean(sd) |
| a | Level | 1.88(0.02), <.01 | 1.88(0.02), <.01 | 1.88(0.00) |
| a | Slope | -0.02(0.00), <.01 | -0.02(0.00), <.01 | -0.02(0.00) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(0.00), <.01 | -0.03(0.00) |
| a | Level \* education | 0.10(0.02), <.01 | 0.10(0.02), <.01 | 0.10(0.00) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(0.00), <.01 | 0.03(0.00) |
| a | Level \* smoking | -0.11(0.02), <.01 | -0.11(0.02), <.01 | -0.11(0.00) |
| a | Level \* cardio | -0.11(0.03), <.01 | -0.11(0.03), <.01 | -0.11(0.00) |
| a | Level \* diabetes | -0.05(0.04), .19 | -0.05(0.04), .17 | -0.05(0.00) |
| a | Slope \* age | 0.00(0.00), .42 | 0.00(0.00), .41 | 0.00(0.00) |
| a | Slope \* education | 0.00(0.00), .68 | 0.00(0.00), .62 | 0.00(0.00) |
| a | Slope \* height | 0.00(0.00), .03 | 0.00(0.00), .02 | 0.00(0.00) |
| a | Slope \* smoking | -0.00(0.00), .47 | -0.00(0.00), .44 | -0.00(0.00) |
| a | Slope \* cardio | 0.00(0.00), .49 | 0.00(0.00), .50 | 0.00(0.00) |
| a | Slope \* diabetes | -0.00(0.01), .54 | -0.00(0.01), .53 | -0.00(0.00) |
| b | Level | 3.89(0.06), <.01 | 5.29(0.05), <.01 | --- |
| b | Slope | -0.04(0.01), <.01 | -0.04(0.01), <.01 | --- |
| b | Level \* age | -0.07(0.00), <.01 | -0.06(0.00), <.01 | --- |
| b | Level \* education | 1.00(0.07), <.01 | 0.73(0.06), <.01 | --- |
| b | Level \* height | 0.02(0.00), <.01 | 0.01(0.00), .05 | --- |
| b | Level \* smoking | -0.21(0.06), <.01 | -0.04(0.05), .49 | --- |
| b | Level \* cardio | -0.12(0.12), .32 | -0.20(0.10), .05 | --- |
| b | Level \* diabetes | -0.38(0.16), .02 | -0.33(0.14), .02 | --- |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(0.00), <.01 | --- |
| b | Slope \* education | -0.00(0.01), .56 | 0.01(0.01), .08 | --- |
| b | Slope \* height | 0.00(0.00), .72 | 0.00(0.00), .26 | --- |
| b | Slope \* smoking | 0.01(0.01), .05 | -0.00(0.01), .58 | --- |
| b | Slope \* cardio | -0.01(0.01), .54 | 0.00(0.01), .78 | --- |
| b | Slope \* diabetes | 0.01(0.02), .62 | 0.01(0.02), .55 | --- |
| a | Var (Level) | 0.14(0.01), <.01 | 0.14(0.01), <.01 | 0.14(0.00) |
| a | Var (Slope) | 0.00(0.00), .56 | 0.00(0.00), .56 | 0.00(0.00) |
| a | Var (Residual) | 0.10(0.01), <.01 | 0.10(0.01), <.01 | 0.10(0.00) |
| a | Covar (Level, Slope) | -0.00(0.00), .65 | -0.00(0.00), .67 | -0.00(0.00) |
| b | Var (Level) | 1.47(0.10), <.01 | 0.97(0.09), <.01 | --- |
| b | Var (Slope) | 0.00(0.00), .63 | 0.00(0.00), .07 | --- |
| b | Var (Residual) | 1.91(0.07), <.01 | 1.60(0.06), <.01 | --- |
| b | Covar (Level, Slope) | 0.01(0.01), .37 | -0.01(0.01), .34 | --- |
| ab | Covar (Levels) | 0.02(0.02), .25 | 0.03(0.02), .09 | --- |
| ab | Covar (Slopes) | 0.00(0.00), .63 | 0.00(0.00), .68 | --- |
| ab | Covar (Residuals) | 0.01(0.01), .57 | 0.01(0.01), .29 | --- |
|  | Correlation of Levels | 0.047 | 0.071 | 0.06(0.02) |
|  | Correlation of Slopes | NaN | NaN | --- |
|  | Correlation of Residuals | 0.016 | 0.025 | 0.02(0.01) |
|  | N | 3,511 | 3,511 | 3511.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -20,325 | -19,347 | -1.983632e+04( 692) |
|  | AIC | 40,733 | 38,776 | 3.975464e+04(1,383) |
|  | BIC | 40,986 | 39,029 | 4.000735e+04(1,383) |

## word\_de

Gender = *female*; Process (a) = *fev*; Process (b) = *word\_de*

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | aehplus | mean(sd) |
| a | Level | 1.88(0.02), <.01 | 1.88(NA) |
| a | Slope | -0.02(0.00), <.01 | -0.02(NA) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(NA) |
| a | Level \* education | 0.10(0.02), <.01 | 0.10(NA) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(NA) |
| a | Level \* smoking | -0.11(0.02), <.01 | -0.11(NA) |
| a | Level \* cardio | -0.11(0.03), <.01 | -0.11(NA) |
| a | Level \* diabetes | -0.05(0.04), .19 | -0.05(NA) |
| a | Slope \* age | 0.00(0.00), .42 | 0.00(NA) |
| a | Slope \* education | 0.00(0.00), .68 | 0.00(NA) |
| a | Slope \* height | 0.00(0.00), .03 | 0.00(NA) |
| a | Slope \* smoking | -0.00(0.00), .47 | -0.00(NA) |
| a | Slope \* cardio | 0.00(0.00), .49 | 0.00(NA) |
| a | Slope \* diabetes | -0.00(0.01), .54 | -0.00(NA) |
| b | Level | 3.89(0.06), <.01 | 3.89(NA) |
| b | Slope | -0.04(0.01), <.01 | -0.04(NA) |
| b | Level \* age | -0.07(0.00), <.01 | -0.07(NA) |
| b | Level \* education | 1.00(0.07), <.01 | 1.00(NA) |
| b | Level \* height | 0.02(0.00), <.01 | 0.02(NA) |
| b | Level \* smoking | -0.21(0.06), <.01 | -0.21(NA) |
| b | Level \* cardio | -0.12(0.12), .32 | -0.12(NA) |
| b | Level \* diabetes | -0.38(0.16), .02 | -0.38(NA) |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(NA) |
| b | Slope \* education | -0.00(0.01), .56 | -0.00(NA) |
| b | Slope \* height | 0.00(0.00), .72 | 0.00(NA) |
| b | Slope \* smoking | 0.01(0.01), .05 | 0.01(NA) |
| b | Slope \* cardio | -0.01(0.01), .54 | -0.01(NA) |
| b | Slope \* diabetes | 0.01(0.02), .62 | 0.01(NA) |
| a | Var (Level) | 0.14(0.01), <.01 | 0.14(NA) |
| a | Var (Slope) | 0.00(0.00), .56 | 0.00(NA) |
| a | Var (Residual) | 0.10(0.01), <.01 | 0.10(NA) |
| a | Covar (Level, Slope) | -0.00(0.00), .65 | -0.00(NA) |
| b | Var (Level) | 1.47(0.10), <.01 | 1.47(NA) |
| b | Var (Slope) | 0.00(0.00), .63 | 0.00(NA) |
| b | Var (Residual) | 1.91(0.07), <.01 | 1.91(NA) |
| b | Covar (Level, Slope) | 0.01(0.01), .37 | 0.01(NA) |
| ab | Covar (Levels) | 0.02(0.02), .25 | 0.02(NA) |
| ab | Covar (Slopes) | 0.00(0.00), .63 | 0.00(NA) |
| ab | Covar (Residuals) | 0.01(0.01), .57 | 0.01(NA) |
|  | Correlation of Levels | 0.047 | 0.05(NA) |
|  | Correlation of Slopes | NaN | --- |
|  | Correlation of Residuals | 0.016 | 0.02(NA) |
|  | N | 3,511 | 3511.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -20,325 | -2.032545e+04(NA) |
|  | AIC | 40,733 | 4.073290e+04(NA) |
|  | BIC | 40,986 | 4.098561e+04(NA) |

## word\_im

Gender = *female*; Process (a) = *fev*; Process (b) = *word\_im*

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

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | aehplus | mean(sd) |
| a | Level | 1.88(0.02), <.01 | 1.88(NA) |
| a | Slope | -0.02(0.00), <.01 | -0.02(NA) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(NA) |
| a | Level \* education | 0.10(0.02), <.01 | 0.10(NA) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(NA) |
| a | Level \* smoking | -0.11(0.02), <.01 | -0.11(NA) |
| a | Level \* cardio | -0.11(0.03), <.01 | -0.11(NA) |
| a | Level \* diabetes | -0.05(0.04), .17 | -0.05(NA) |
| a | Slope \* age | 0.00(0.00), .41 | 0.00(NA) |
| a | Slope \* education | 0.00(0.00), .62 | 0.00(NA) |
| a | Slope \* height | 0.00(0.00), .02 | 0.00(NA) |
| a | Slope \* smoking | -0.00(0.00), .44 | -0.00(NA) |
| a | Slope \* cardio | 0.00(0.00), .50 | 0.00(NA) |
| a | Slope \* diabetes | -0.00(0.01), .53 | -0.00(NA) |
| b | Level | 5.29(0.05), <.01 | 5.29(NA) |
| b | Slope | -0.04(0.01), <.01 | -0.04(NA) |
| b | Level \* age | -0.06(0.00), <.01 | -0.06(NA) |
| b | Level \* education | 0.73(0.06), <.01 | 0.73(NA) |
| b | Level \* height | 0.01(0.00), .05 | 0.01(NA) |
| b | Level \* smoking | -0.04(0.05), .49 | -0.04(NA) |
| b | Level \* cardio | -0.20(0.10), .05 | -0.20(NA) |
| b | Level \* diabetes | -0.33(0.14), .02 | -0.33(NA) |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(NA) |
| b | Slope \* education | 0.01(0.01), .08 | 0.01(NA) |
| b | Slope \* height | 0.00(0.00), .26 | 0.00(NA) |
| b | Slope \* smoking | -0.00(0.01), .58 | -0.00(NA) |
| b | Slope \* cardio | 0.00(0.01), .78 | 0.00(NA) |
| b | Slope \* diabetes | 0.01(0.02), .55 | 0.01(NA) |
| a | Var (Level) | 0.14(0.01), <.01 | 0.14(NA) |
| a | Var (Slope) | 0.00(0.00), .56 | 0.00(NA) |
| a | Var (Residual) | 0.10(0.01), <.01 | 0.10(NA) |
| a | Covar (Level, Slope) | -0.00(0.00), .67 | -0.00(NA) |
| b | Var (Level) | 0.97(0.09), <.01 | 0.97(NA) |
| b | Var (Slope) | 0.00(0.00), .07 | 0.00(NA) |
| b | Var (Residual) | 1.60(0.06), <.01 | 1.60(NA) |
| b | Covar (Level, Slope) | -0.01(0.01), .34 | -0.01(NA) |
| ab | Covar (Levels) | 0.03(0.02), .09 | 0.03(NA) |
| ab | Covar (Slopes) | 0.00(0.00), .68 | 0.00(NA) |
| ab | Covar (Residuals) | 0.01(0.01), .29 | 0.01(NA) |
|  | Correlation of Levels | 0.071 | 0.07(NA) |
|  | Correlation of Slopes | NaN | --- |
|  | Correlation of Residuals | 0.025 | 0.02(NA) |
|  | N | 3,511 | 3511.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -19,347 | -1.934719e+04(NA) |
|  | AIC | 38,776 | 3.877638e+04(NA) |
|  | BIC | 39,029 | 3.902909e+04(NA) |

## Summary

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

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | word\_de | 0.05 |
| Correlation of Levels | word\_im | 0.07 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | word\_de | NaN |
| Correlation of Slopes | word\_im | NaN |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | word\_de | 0.02 |
| Correlation of Residuals | word\_im | 0.02 |

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *fev*; Process (b): *word\_de*, *word\_im*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | word\_de | word\_im | mean(sd) |
| a | Level | 2.63(0.03), <.01 | 2.63(0.03), <.01 | 2.63(0.00) |
| a | Slope | -0.02(0.00), <.01 | -0.02(0.00), <.01 | -0.02(0.00) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(0.00), <.01 | -0.03(0.00) |
| a | Level \* education | 0.20(0.03), <.01 | 0.20(0.03), <.01 | 0.20(0.00) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(0.00), <.01 | 0.03(0.00) |
| a | Level \* smoking | -0.21(0.03), <.01 | -0.21(0.03), <.01 | -0.21(0.00) |
| a | Level \* cardio | -0.20(0.04), <.01 | -0.20(0.04), <.01 | -0.20(0.00) |
| a | Level \* diabetes | -0.06(0.05), .18 | -0.06(0.05), .19 | -0.06(0.00) |
| a | Slope \* age | 0.00(0.00), .49 | 0.00(0.00), .52 | 0.00(0.00) |
| a | Slope \* education | -0.01(0.00), .08 | -0.01(0.00), .08 | -0.01(0.00) |
| a | Slope \* height | 0.00(0.00), .94 | 0.00(0.00), .91 | 0.00(0.00) |
| a | Slope \* smoking | 0.00(0.00), .36 | 0.00(0.00), .35 | 0.00(0.00) |
| a | Slope \* cardio | 0.00(0.00), .56 | 0.00(0.00), .57 | 0.00(0.00) |
| a | Slope \* diabetes | -0.02(0.01), .01 | -0.02(0.01), .01 | -0.02(0.00) |
| b | Level | 3.27(0.08), <.01 | 4.87(0.07), <.01 | --- |
| b | Slope | 0.00(0.01), .61 | -0.03(0.01), <.01 | --- |
| b | Level \* age | -0.07(0.00), <.01 | -0.05(0.00), <.01 | --- |
| b | Level \* education | 0.92(0.07), <.01 | 0.76(0.06), <.01 | --- |
| b | Level \* height | 0.02(0.00), <.01 | 0.01(0.00), <.01 | --- |
| b | Level \* smoking | 0.02(0.07), .71 | -0.00(0.06), .95 | --- |
| b | Level \* cardio | -0.06(0.10), .52 | -0.16(0.09), .07 | --- |
| b | Level \* diabetes | -0.28(0.11), .01 | -0.10(0.10), .32 | --- |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(0.00), <.01 | --- |
| b | Slope \* education | -0.01(0.01), .18 | -0.00(0.01), .95 | --- |
| b | Slope \* height | 0.00(0.00), .96 | 0.00(0.00), .10 | --- |
| b | Slope \* smoking | -0.02(0.01), .02 | -0.02(0.01), .04 | --- |
| b | Slope \* cardio | -0.03(0.01), .03 | -0.01(0.01), .66 | --- |
| b | Slope \* diabetes | -0.01(0.02), .41 | -0.01(0.02), .53 | --- |
| a | Var (Level) | 0.33(0.02), <.01 | 0.33(0.02), <.01 | 0.33(0.00) |
| a | Var (Slope) | 0.00(0.00), .03 | 0.00(0.00), .03 | 0.00(0.00) |
| a | Var (Residual) | 0.19(0.02), <.01 | 0.19(0.02), <.01 | 0.19(0.00) |
| a | Covar (Level, Slope) | -0.01(0.00), <.01 | -0.01(0.00), <.01 | -0.01(0.00) |
| b | Var (Level) | 1.36(0.10), <.01 | 1.00(0.08), <.01 | --- |
| b | Var (Slope) | 0.00(0.00), .53 | 0.00(0.00), .01 | --- |
| b | Var (Residual) | 1.75(0.07), <.01 | 1.40(0.06), <.01 | --- |
| b | Covar (Level, Slope) | -0.00(0.01), .73 | -0.02(0.01), .05 | --- |
| ab | Covar (Levels) | 0.04(0.03), .16 | 0.03(0.02), .15 | --- |
| ab | Covar (Slopes) | 0.00(0.00), .54 | 0.00(0.00), .52 | --- |
| ab | Covar (Residuals) | 0.02(0.01), .27 | 0.02(0.01), .06 | --- |
|  | Correlation of Levels | 0.057 | 0.056 | 0.06(0.00) |
|  | Correlation of Slopes | 0.000 | 0.000 | 0.00(0.00) |
|  | Correlation of Residuals | 0.028 | 0.045 | 0.04(0.01) |
|  | N | 3,091 | 3,091 | 3091.00(0.00) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -19,478 | -18,631 | -1.905493e+04( 599) |
|  | AIC | 39,039 | 37,345 | 3.819186e+04(1,198) |
|  | BIC | 39,286 | 37,592 | 3.843934e+04(1,198) |

## word\_de

Gender = *male*; Process (a) = *fev*; Process (b) = *word\_de*

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | aehplus | mean(sd) |
| a | Level | 2.63(0.03), <.01 | 2.63(NA) |
| a | Slope | -0.02(0.00), <.01 | -0.02(NA) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(NA) |
| a | Level \* education | 0.20(0.03), <.01 | 0.20(NA) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(NA) |
| a | Level \* smoking | -0.21(0.03), <.01 | -0.21(NA) |
| a | Level \* cardio | -0.20(0.04), <.01 | -0.20(NA) |
| a | Level \* diabetes | -0.06(0.05), .18 | -0.06(NA) |
| a | Slope \* age | 0.00(0.00), .49 | 0.00(NA) |
| a | Slope \* education | -0.01(0.00), .08 | -0.01(NA) |
| a | Slope \* height | 0.00(0.00), .94 | 0.00(NA) |
| a | Slope \* smoking | 0.00(0.00), .36 | 0.00(NA) |
| a | Slope \* cardio | 0.00(0.00), .56 | 0.00(NA) |
| a | Slope \* diabetes | -0.02(0.01), .01 | -0.02(NA) |
| b | Level | 3.27(0.08), <.01 | 3.27(NA) |
| b | Slope | 0.00(0.01), .61 | 0.00(NA) |
| b | Level \* age | -0.07(0.00), <.01 | -0.07(NA) |
| b | Level \* education | 0.92(0.07), <.01 | 0.92(NA) |
| b | Level \* height | 0.02(0.00), <.01 | 0.02(NA) |
| b | Level \* smoking | 0.02(0.07), .71 | 0.02(NA) |
| b | Level \* cardio | -0.06(0.10), .52 | -0.06(NA) |
| b | Level \* diabetes | -0.28(0.11), .01 | -0.28(NA) |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(NA) |
| b | Slope \* education | -0.01(0.01), .18 | -0.01(NA) |
| b | Slope \* height | 0.00(0.00), .96 | 0.00(NA) |
| b | Slope \* smoking | -0.02(0.01), .02 | -0.02(NA) |
| b | Slope \* cardio | -0.03(0.01), .03 | -0.03(NA) |
| b | Slope \* diabetes | -0.01(0.02), .41 | -0.01(NA) |
| a | Var (Level) | 0.33(0.02), <.01 | 0.33(NA) |
| a | Var (Slope) | 0.00(0.00), .03 | 0.00(NA) |
| a | Var (Residual) | 0.19(0.02), <.01 | 0.19(NA) |
| a | Covar (Level, Slope) | -0.01(0.00), <.01 | -0.01(NA) |
| b | Var (Level) | 1.36(0.10), <.01 | 1.36(NA) |
| b | Var (Slope) | 0.00(0.00), .53 | 0.00(NA) |
| b | Var (Residual) | 1.75(0.07), <.01 | 1.75(NA) |
| b | Covar (Level, Slope) | -0.00(0.01), .73 | -0.00(NA) |
| ab | Covar (Levels) | 0.04(0.03), .16 | 0.04(NA) |
| ab | Covar (Slopes) | 0.00(0.00), .54 | 0.00(NA) |
| ab | Covar (Residuals) | 0.02(0.01), .27 | 0.02(NA) |
|  | Correlation of Levels | 0.057 | 0.06(NA) |
|  | Correlation of Slopes | 0.000 | 0.00(NA) |
|  | Correlation of Residuals | 0.028 | 0.03(NA) |
|  | N | 3,091 | 3091.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -19,478 | -1.947849e+04(NA) |
|  | AIC | 39,039 | 3.903899e+04(NA) |
|  | BIC | 39,286 | 3.928647e+04(NA) |

## word\_im

Gender = *male*; Process (a) = *fev*; Process (b) = *word\_im*

|  |  |  |  |
| --- | --- | --- | --- |
| process | label | aehplus | mean(sd) |
| a | Level | 2.63(0.03), <.01 | 2.63(NA) |
| a | Slope | -0.02(0.00), <.01 | -0.02(NA) |
| a | Level \* age | -0.03(0.00), <.01 | -0.03(NA) |
| a | Level \* education | 0.20(0.03), <.01 | 0.20(NA) |
| a | Level \* height | 0.03(0.00), <.01 | 0.03(NA) |
| a | Level \* smoking | -0.21(0.03), <.01 | -0.21(NA) |
| a | Level \* cardio | -0.20(0.04), <.01 | -0.20(NA) |
| a | Level \* diabetes | -0.06(0.05), .19 | -0.06(NA) |
| a | Slope \* age | 0.00(0.00), .52 | 0.00(NA) |
| a | Slope \* education | -0.01(0.00), .08 | -0.01(NA) |
| a | Slope \* height | 0.00(0.00), .91 | 0.00(NA) |
| a | Slope \* smoking | 0.00(0.00), .35 | 0.00(NA) |
| a | Slope \* cardio | 0.00(0.00), .57 | 0.00(NA) |
| a | Slope \* diabetes | -0.02(0.01), .01 | -0.02(NA) |
| b | Level | 4.87(0.07), <.01 | 4.87(NA) |
| b | Slope | -0.03(0.01), <.01 | -0.03(NA) |
| b | Level \* age | -0.05(0.00), <.01 | -0.05(NA) |
| b | Level \* education | 0.76(0.06), <.01 | 0.76(NA) |
| b | Level \* height | 0.01(0.00), <.01 | 0.01(NA) |
| b | Level \* smoking | -0.00(0.06), .95 | -0.00(NA) |
| b | Level \* cardio | -0.16(0.09), .07 | -0.16(NA) |
| b | Level \* diabetes | -0.10(0.10), .32 | -0.10(NA) |
| b | Slope \* age | -0.00(0.00), <.01 | -0.00(NA) |
| b | Slope \* education | -0.00(0.01), .95 | -0.00(NA) |
| b | Slope \* height | 0.00(0.00), .10 | 0.00(NA) |
| b | Slope \* smoking | -0.02(0.01), .04 | -0.02(NA) |
| b | Slope \* cardio | -0.01(0.01), .66 | -0.01(NA) |
| b | Slope \* diabetes | -0.01(0.02), .53 | -0.01(NA) |
| a | Var (Level) | 0.33(0.02), <.01 | 0.33(NA) |
| a | Var (Slope) | 0.00(0.00), .03 | 0.00(NA) |
| a | Var (Residual) | 0.19(0.02), <.01 | 0.19(NA) |
| a | Covar (Level, Slope) | -0.01(0.00), <.01 | -0.01(NA) |
| b | Var (Level) | 1.00(0.08), <.01 | 1.00(NA) |
| b | Var (Slope) | 0.00(0.00), .01 | 0.00(NA) |
| b | Var (Residual) | 1.40(0.06), <.01 | 1.40(NA) |
| b | Covar (Level, Slope) | -0.02(0.01), .05 | -0.02(NA) |
| ab | Covar (Levels) | 0.03(0.02), .15 | 0.03(NA) |
| ab | Covar (Slopes) | 0.00(0.00), .52 | 0.00(NA) |
| ab | Covar (Residuals) | 0.02(0.01), .06 | 0.02(NA) |
|  | Correlation of Levels | 0.056 | 0.06(NA) |
|  | Correlation of Slopes | 0.000 | 0.00(NA) |
|  | Correlation of Residuals | 0.045 | 0.05(NA) |
|  | N | 3,091 | 3091.00(NA) |
|  | occasions | 6 | 6.00(NA) |
|  | parameters | 41 | 41.00(NA) |
|  | LL | -18,631 | -1.863136e+04(NA) |
|  | AIC | 37,345 | 3.734473e+04(NA) |
|  | BIC | 37,592 | 3.759221e+04(NA) |

## Summary

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

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | word\_de | 0.06 |
| Correlation of Levels | word\_im | 0.06 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | word\_de | 0.00 |
| Correlation of Slopes | word\_im | 0.00 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | word\_de | 0.03 |
| Correlation of Residuals | word\_im | 0.05 |

#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] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 ggplot2\_2.1.0 magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 munsell\_0.4.3 testit\_0.5 colorspace\_1.2-7 R6\_2.2.0 stringr\_1.1.0   
 [7] highr\_0.6 plyr\_1.8.4 dplyr\_0.5.0 tools\_3.3.1 DT\_0.2 grid\_3.3.1   
[13] gtable\_0.2.0 DBI\_0.5-1 htmltools\_0.3.5 yaml\_2.1.13 lazyeval\_0.2.0 assertthat\_0.1   
[19] digest\_0.6.10 tibble\_1.2 formatR\_1.4 readr\_1.0.0 tidyr\_0.6.0 htmlwidgets\_0.7   
[25] rsconnect\_0.5 evaluate\_0.10 rmarkdown\_1.1 stringi\_1.1.2 scales\_0.4.0