ELSA : Seed report

Date: 2016-12-05

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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 |
| fev100 | word\_de | 2 |
| fev100 | word\_im | 2 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| elsa | female | aehplus | fev100 | word\_de | 1 |
| elsa | female | aehplus | fev100 | word\_im | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| elsa | male | aehplus | fev100 | word\_de | 1 |
| elsa | male | aehplus | fev100 | word\_im | 1 |

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *fev100*; Process (b): *word\_de*, *word\_im*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | word\_de | word\_im | mean(sd) |
| ab | Covar (Levels) | 2.57 (1.83) .16 | 2.90 (1.57) .06 | --- |
| ab | Covar (Slopes) | -0.01 (0.03) .80 | -0.01 (0.02) .79 | --- |
| ab | Covar (Residuals) | 0.41 (1.20) .73 | 0.90 (0.97) .35 | --- |
| er | Corr (Levels) | 0.06 (0.04) .16 | 0.08 (0.04) .06 | --- |
| er | Corr (Slopes) | -0.36 (1.64) .83 | -0.14 (0.56) .80 | --- |
| er | Corr (Residuals) | 0.01 (0.03) .73 | 0.02 (0.02) .35 | --- |
| a | Level | 188.74 (1.69) <.01 | 188.71 (1.70) <.01 | 188.73(0.02) |
| a | Slope | -2.08 (0.19) <.01 | -2.09 (0.19) <.01 | -2.09(0.00) |
| a | Level \* age | -2.62 (0.10) <.01 | -2.62 (0.10) <.01 | -2.62(0.00) |
| a | Level \* education | 9.83 (1.80) <.01 | 9.85 (1.80) <.01 | 9.84(0.01) |
| a | Level \* height | 2.74 (0.15) <.01 | 2.74 (0.15) <.01 | 2.74(0.00) |
| a | Level \* smoking | -10.77 (1.71) <.01 | -10.76 (1.71) <.01 | -10.76(0.01) |
| a | Level \* cardio | -12.53 (3.10) <.01 | -12.52 (3.10) <.01 | -12.53(0.01) |
| a | Level \* diabetes | -4.05 (3.83) .29 | -4.07 (3.83) .29 | -4.06(0.01) |
| a | Slope \* age | -0.01 (0.01) .37 | -0.01 (0.01) .37 | -0.01(0.00) |
| a | Slope \* education | 0.06 (0.21) .76 | 0.08 (0.21) .70 | 0.07(0.01) |
| a | Slope \* height | -0.04 (0.02) .02 | -0.04 (0.02) .01 | -0.04(0.00) |
| a | Slope \* smoking | -0.15 (0.20) .45 | -0.16 (0.20) .43 | -0.15(0.01) |
| a | Slope \* cardio | 0.14 (0.47) .76 | 0.14 (0.47) .77 | 0.14(0.01) |
| a | Slope \* diabetes | -0.16 (0.55) .76 | -0.16 (0.54) .77 | -0.16(0.01) |
| b | Level | 3.93 (0.06) <.01 | 5.33 (0.06) <.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 | 1.02 (0.07) <.01 | 0.72 (0.06) <.01 | --- |
| b | Level \* height | 0.01 (0.00) <.01 | 0.01 (0.00) .18 | --- |
| b | Level \* smoking | -0.22 (0.06) <.01 | -0.05 (0.06) .36 | --- |
| b | Level \* cardio | -0.11 (0.13) .39 | -0.17 (0.12) .15 | --- |
| b | Level \* diabetes | -0.29 (0.17) .09 | -0.21 (0.15) .15 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | -0.00 (0.00) <.01 | --- |
| b | Slope \* education | -0.01 (0.01) .29 | 0.01 (0.01) .20 | --- |
| b | Slope \* height | 0.00 (0.00) .78 | 0.00 (0.00) .13 | --- |
| b | Slope \* smoking | 0.02 (0.01) .04 | -0.00 (0.01) .66 | --- |
| b | Slope \* cardio | -0.01 (0.02) .52 | 0.01 (0.02) .73 | --- |
| b | Slope \* diabetes | 0.00 (0.02) .90 | 0.00 (0.02) .82 | --- |
| a | Var (Level) | 1360.77 (109.43) <.01 | 1360.58 (109.51) <.01 | 1360.67(0.13) |
| a | Var (Slope) | 0.89 (2.14) .68 | 0.86 (2.14) .69 | 0.87(0.02) |
| a | Var (Residual) | 1028.77 (102.06) <.01 | 1029.49 (102.16) <.01 | 1029.13(0.51) |
| b | Var (Level) | 1.41 (0.10) <.01 | 0.94 (0.09) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .80 | 0.00 (0.00) .12 | --- |
| b | Var (Residual) | 1.91 (0.07) <.01 | 1.62 (0.06) <.01 | --- |
| a | Covar (Level, Slope) | -6.30 (12.84) .62 | -5.92 (12.85) .64 | -6.11(0.26) |
| b | Covar (Level, Slope) | 0.02 (0.01) .15 | -0.01 (0.01) .46 | --- |
|  | Correlation of Levels | 0.0586 | 0.081 | 0.07(0.02) |
|  | Correlation of Slopes | -0.2683 | -0.138 | -0.20(0.09) |
|  | Correlation of Residuals | 0.0093 | 0.022 | 0.02(0.01) |
|  | N | 3,228 | 3,227 | 3227.50(0.71) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -50,805 | -49,896 | -5.035017e+04( 643) |
|  | AIC | 101,692 | 99,873 | 1.007823e+05(1,286) |
|  | BIC | 101,941 | 100,122 | 1.010316e+05(1,286) |

## word\_de

Gender = *female*; Process (a) = *fev100*; Process (b) = *word\_de*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 2.57 (1.83) .16 |
| ab | Covar (Slopes) | -0.01 (0.03) .80 |
| ab | Covar (Residuals) | 0.41 (1.20) .73 |
| er | Corr (Levels) | 0.06 (0.04) .16 |
| er | Corr (Slopes) | -0.36 (1.64) .83 |
| er | Corr (Residuals) | 0.01 (0.03) .73 |
| a | Level | 188.74 (1.69) <.01 |
| a | Slope | -2.08 (0.19) <.01 |
| a | Level \* age | -2.62 (0.10) <.01 |
| a | Level \* education | 9.83 (1.80) <.01 |
| a | Level \* height | 2.74 (0.15) <.01 |
| a | Level \* smoking | -10.77 (1.71) <.01 |
| a | Level \* cardio | -12.53 (3.10) <.01 |
| a | Level \* diabetes | -4.05 (3.83) .29 |
| a | Slope \* age | -0.01 (0.01) .37 |
| a | Slope \* education | 0.06 (0.21) .76 |
| a | Slope \* height | -0.04 (0.02) .02 |
| a | Slope \* smoking | -0.15 (0.20) .45 |
| a | Slope \* cardio | 0.14 (0.47) .76 |
| a | Slope \* diabetes | -0.16 (0.55) .76 |
| b | Level | 3.93 (0.06) <.01 |
| b | Slope | -0.04 (0.01) <.01 |
| b | Level \* age | -0.07 (0.00) <.01 |
| b | Level \* education | 1.02 (0.07) <.01 |
| b | Level \* height | 0.01 (0.00) <.01 |
| b | Level \* smoking | -0.22 (0.06) <.01 |
| b | Level \* cardio | -0.11 (0.13) .39 |
| b | Level \* diabetes | -0.29 (0.17) .09 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | -0.01 (0.01) .29 |
| b | Slope \* height | 0.00 (0.00) .78 |
| b | Slope \* smoking | 0.02 (0.01) .04 |
| b | Slope \* cardio | -0.01 (0.02) .52 |
| b | Slope \* diabetes | 0.00 (0.02) .90 |
| a | Var (Level) | 1360.77 (109.43) <.01 |
| a | Var (Slope) | 0.89 (2.14) .68 |
| a | Var (Residual) | 1028.77 (102.06) <.01 |
| b | Var (Level) | 1.41 (0.10) <.01 |
| b | Var (Slope) | 0.00 (0.00) .80 |
| b | Var (Residual) | 1.91 (0.07) <.01 |
| a | Covar (Level, Slope) | -6.30 (12.84) .62 |
| b | Covar (Level, Slope) | 0.02 (0.01) .15 |
|  | Correlation of Levels | 0.0586 |
|  | Correlation of Slopes | -0.2683 |
|  | Correlation of Residuals | 0.0093 |
|  | N | 3,228 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -50,805 |
|  | AIC | 101,692 |
|  | BIC | 101,941 |

## word\_im

Gender = *female*; Process (a) = *fev100*; Process (b) = *word\_im*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 2.90 (1.57) .06 |
| ab | Covar (Slopes) | -0.01 (0.02) .79 |
| ab | Covar (Residuals) | 0.90 (0.97) .35 |
| er | Corr (Levels) | 0.08 (0.04) .06 |
| er | Corr (Slopes) | -0.14 (0.56) .80 |
| er | Corr (Residuals) | 0.02 (0.02) .35 |
| a | Level | 188.71 (1.70) <.01 |
| a | Slope | -2.09 (0.19) <.01 |
| a | Level \* age | -2.62 (0.10) <.01 |
| a | Level \* education | 9.85 (1.80) <.01 |
| a | Level \* height | 2.74 (0.15) <.01 |
| a | Level \* smoking | -10.76 (1.71) <.01 |
| a | Level \* cardio | -12.52 (3.10) <.01 |
| a | Level \* diabetes | -4.07 (3.83) .29 |
| a | Slope \* age | -0.01 (0.01) .37 |
| a | Slope \* education | 0.08 (0.21) .70 |
| a | Slope \* height | -0.04 (0.02) .01 |
| a | Slope \* smoking | -0.16 (0.20) .43 |
| a | Slope \* cardio | 0.14 (0.47) .77 |
| a | Slope \* diabetes | -0.16 (0.54) .77 |
| b | Level | 5.33 (0.06) <.01 |
| b | Slope | -0.04 (0.01) <.01 |
| b | Level \* age | -0.06 (0.00) <.01 |
| b | Level \* education | 0.72 (0.06) <.01 |
| b | Level \* height | 0.01 (0.00) .18 |
| b | Level \* smoking | -0.05 (0.06) .36 |
| b | Level \* cardio | -0.17 (0.12) .15 |
| b | Level \* diabetes | -0.21 (0.15) .15 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.01 (0.01) .20 |
| b | Slope \* height | 0.00 (0.00) .13 |
| b | Slope \* smoking | -0.00 (0.01) .66 |
| b | Slope \* cardio | 0.01 (0.02) .73 |
| b | Slope \* diabetes | 0.00 (0.02) .82 |
| a | Var (Level) | 1360.58 (109.51) <.01 |
| a | Var (Slope) | 0.86 (2.14) .69 |
| a | Var (Residual) | 1029.49 (102.16) <.01 |
| b | Var (Level) | 0.94 (0.09) <.01 |
| b | Var (Slope) | 0.00 (0.00) .12 |
| b | Var (Residual) | 1.62 (0.06) <.01 |
| a | Covar (Level, Slope) | -5.92 (12.85) .64 |
| b | Covar (Level, Slope) | -0.01 (0.01) .46 |
|  | Correlation of Levels | 0.081 |
|  | Correlation of Slopes | -0.138 |
|  | Correlation of Residuals | 0.022 |
|  | N | 3,227 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -49,896 |
|  | AIC | 99,873 |
|  | BIC | 100,122 |

## Summary

Study = *ELSA*; Gender = *female*; Process (a) = *fev100*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | word\_de | 0.06 |
| Correlation of Levels | word\_im | 0.08 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | word\_de | -0.27 |
| Correlation of Slopes | word\_im | -0.14 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | word\_de | 0.01 |
| Correlation of Residuals | word\_im | 0.02 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | word\_de | 0.16 |
| Covariance of Levels | word\_im | 0.06 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | word\_de | 0.80 |
| Covariance of Slopes | word\_im | 0.79 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | word\_de | 0.73 |
| Covariance of Residuals | word\_im | 0.35 |

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *fev100*; Process (b): *word\_de*, *word\_im*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| process | label | word\_de | word\_im | mean(sd) |
| ab | Covar (Levels) | 3.57 (2.66) .18 | 3.39 (2.21) .12 | --- |
| ab | Covar (Slopes) | -0.02 (0.03) .54 | -0.02 (0.03) .54 | --- |
| ab | Covar (Residuals) | 1.41 (1.42) .32 | 2.09 (1.22) .09 | --- |
| er | Corr (Levels) | 0.05 (0.04) .18 | 0.06 (0.04) .13 | --- |
| er | Corr (Slopes) | -0.18 (0.32) .57 | -0.11 (0.18) .55 | --- |
| er | Corr (Residuals) | 0.02 (0.02) .33 | 0.04 (0.02) .09 | --- |
| a | Level | 263.49 (3.21) <.01 | 263.55 (3.21) <.01 | 263.52(0.04) |
| a | Slope | -2.12 (0.45) <.01 | -2.11 (0.44) <.01 | -2.11(0.01) |
| a | Level \* age | -3.40 (0.15) <.01 | -3.40 (0.15) <.01 | -3.40(0.00) |
| a | Level \* education | 19.88 (2.90) <.01 | 19.81 (2.90) <.01 | 19.84(0.05) |
| a | Level \* height | 3.37 (0.21) <.01 | 3.38 (0.21) <.01 | 3.37(0.00) |
| a | Level \* smoking | -21.31 (2.84) <.01 | -21.30 (2.85) <.01 | -21.31(0.00) |
| a | Level \* cardio | -19.89 (3.90) <.01 | -19.91 (3.90) <.01 | -19.90(0.01) |
| a | Level \* diabetes | -6.24 (4.70) .18 | -6.27 (4.70) .18 | -6.26(0.02) |
| a | Slope \* age | -0.01 (0.02) .61 | -0.01 (0.02) .60 | -0.01(0.00) |
| a | Slope \* education | -0.68 (0.36) .06 | -0.68 (0.36) .06 | -0.68(0.00) |
| a | Slope \* height | 0.00 (0.02) .89 | 0.00 (0.02) .94 | 0.00(0.00) |
| a | Slope \* smoking | 0.28 (0.34) .41 | 0.29 (0.34) .40 | 0.29(0.01) |
| a | Slope \* cardio | 0.26 (0.50) .60 | 0.26 (0.50) .60 | 0.26(0.00) |
| a | Slope \* diabetes | -1.47 (0.62) .02 | -1.46 (0.62) .02 | -1.47(0.01) |
| b | Level | 3.27 (0.08) <.01 | 4.88 (0.07) <.01 | --- |
| b | Slope | 0.01 (0.01) .50 | -0.03 (0.01) .01 | --- |
| b | Level \* age | -0.07 (0.00) <.01 | -0.05 (0.00) <.01 | --- |
| b | Level \* education | 0.94 (0.07) <.01 | 0.77 (0.06) <.01 | --- |
| b | Level \* height | 0.02 (0.00) <.01 | 0.01 (0.00) .01 | --- |
| b | Level \* smoking | 0.04 (0.07) .61 | 0.01 (0.06) .88 | --- |
| b | Level \* cardio | -0.06 (0.10) .58 | -0.19 (0.09) .04 | --- |
| b | Level \* diabetes | -0.32 (0.11) <.01 | -0.16 (0.11) .12 | --- |
| b | Slope \* age | -0.00 (0.00) <.01 | -0.00 (0.00) <.01 | --- |
| b | Slope \* education | -0.01 (0.01) .20 | 0.00 (0.01) .89 | --- |
| b | Slope \* height | 0.00 (0.00) .84 | 0.00 (0.00) .05 | --- |
| b | Slope \* smoking | -0.02 (0.01) .02 | -0.02 (0.01) .02 | --- |
| b | Slope \* cardio | -0.03 (0.01) .04 | 0.00 (0.01) .98 | --- |
| b | Slope \* diabetes | -0.01 (0.02) .50 | -0.00 (0.02) .88 | --- |
| a | Var (Level) | 3273.17 (227.38) <.01 | 3273.50 (227.50) <.01 | 3273.33(0.24) |
| a | Var (Slope) | 9.53 (4.20) .02 | 9.59 (4.21) .02 | 9.56(0.04) |
| a | Var (Residual) | 1872.57 (177.52) <.01 | 1872.26 (177.47) <.01 | 1872.42(0.22) |
| b | Var (Level) | 1.32 (0.10) <.01 | 0.97 (0.08) <.01 | --- |
| b | Var (Slope) | 0.00 (0.00) .47 | 0.00 (0.00) .02 | --- |
| b | Var (Residual) | 1.77 (0.06) <.01 | 1.39 (0.06) <.01 | --- |
| a | Covar (Level, Slope) | -78.40 (25.96) <.01 | -78.90 (26.04) <.01 | -78.65(0.35) |
| b | Covar (Level, Slope) | -0.00 (0.01) .89 | -0.02 (0.01) .07 | --- |
|  | Correlation of Levels | 0.054 | 0.060 | 0.06(0.00) |
|  | Correlation of Slopes | -0.205 | -0.107 | -0.16(0.07) |
|  | Correlation of Residuals | 0.024 | 0.041 | 0.03(0.01) |
|  | N | 2,904 | 2,902 | 2903.00(1.41) |
|  | occasions | 6 | 6 | 6.00(0.00) |
|  | parameters | 41 | 41 | 41.00(0.00) |
|  | LL | -47,112 | -46,253 | -4.668271e+04( 607) |
|  | AIC | 94,306 | 92,588 | 9.344743e+04(1,215) |
|  | BIC | 94,551 | 92,833 | 9.369234e+04(1,215) |

## word\_de

Gender = *male*; Process (a) = *fev100*; Process (b) = *word\_de*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 3.57 (2.66) .18 |
| ab | Covar (Slopes) | -0.02 (0.03) .54 |
| ab | Covar (Residuals) | 1.41 (1.42) .32 |
| er | Corr (Levels) | 0.05 (0.04) .18 |
| er | Corr (Slopes) | -0.18 (0.32) .57 |
| er | Corr (Residuals) | 0.02 (0.02) .33 |
| a | Level | 263.49 (3.21) <.01 |
| a | Slope | -2.12 (0.45) <.01 |
| a | Level \* age | -3.40 (0.15) <.01 |
| a | Level \* education | 19.88 (2.90) <.01 |
| a | Level \* height | 3.37 (0.21) <.01 |
| a | Level \* smoking | -21.31 (2.84) <.01 |
| a | Level \* cardio | -19.89 (3.90) <.01 |
| a | Level \* diabetes | -6.24 (4.70) .18 |
| a | Slope \* age | -0.01 (0.02) .61 |
| a | Slope \* education | -0.68 (0.36) .06 |
| a | Slope \* height | 0.00 (0.02) .89 |
| a | Slope \* smoking | 0.28 (0.34) .41 |
| a | Slope \* cardio | 0.26 (0.50) .60 |
| a | Slope \* diabetes | -1.47 (0.62) .02 |
| b | Level | 3.27 (0.08) <.01 |
| b | Slope | 0.01 (0.01) .50 |
| b | Level \* age | -0.07 (0.00) <.01 |
| b | Level \* education | 0.94 (0.07) <.01 |
| b | Level \* height | 0.02 (0.00) <.01 |
| b | Level \* smoking | 0.04 (0.07) .61 |
| b | Level \* cardio | -0.06 (0.10) .58 |
| b | Level \* diabetes | -0.32 (0.11) <.01 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | -0.01 (0.01) .20 |
| b | Slope \* height | 0.00 (0.00) .84 |
| b | Slope \* smoking | -0.02 (0.01) .02 |
| b | Slope \* cardio | -0.03 (0.01) .04 |
| b | Slope \* diabetes | -0.01 (0.02) .50 |
| a | Var (Level) | 3273.17 (227.38) <.01 |
| a | Var (Slope) | 9.53 (4.20) .02 |
| a | Var (Residual) | 1872.57 (177.52) <.01 |
| b | Var (Level) | 1.32 (0.10) <.01 |
| b | Var (Slope) | 0.00 (0.00) .47 |
| b | Var (Residual) | 1.77 (0.06) <.01 |
| a | Covar (Level, Slope) | -78.40 (25.96) <.01 |
| b | Covar (Level, Slope) | -0.00 (0.01) .89 |
|  | Correlation of Levels | 0.054 |
|  | Correlation of Slopes | -0.205 |
|  | Correlation of Residuals | 0.024 |
|  | N | 2,904 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -47,112 |
|  | AIC | 94,306 |
|  | BIC | 94,551 |

## word\_im

Gender = *male*; Process (a) = *fev100*; Process (b) = *word\_im*

|  |  |  |
| --- | --- | --- |
| process | label | aehplus |
| ab | Covar (Levels) | 3.39 (2.21) .12 |
| ab | Covar (Slopes) | -0.02 (0.03) .54 |
| ab | Covar (Residuals) | 2.09 (1.22) .09 |
| er | Corr (Levels) | 0.06 (0.04) .13 |
| er | Corr (Slopes) | -0.11 (0.18) .55 |
| er | Corr (Residuals) | 0.04 (0.02) .09 |
| a | Level | 263.55 (3.21) <.01 |
| a | Slope | -2.11 (0.44) <.01 |
| a | Level \* age | -3.40 (0.15) <.01 |
| a | Level \* education | 19.81 (2.90) <.01 |
| a | Level \* height | 3.38 (0.21) <.01 |
| a | Level \* smoking | -21.30 (2.85) <.01 |
| a | Level \* cardio | -19.91 (3.90) <.01 |
| a | Level \* diabetes | -6.27 (4.70) .18 |
| a | Slope \* age | -0.01 (0.02) .60 |
| a | Slope \* education | -0.68 (0.36) .06 |
| a | Slope \* height | 0.00 (0.02) .94 |
| a | Slope \* smoking | 0.29 (0.34) .40 |
| a | Slope \* cardio | 0.26 (0.50) .60 |
| a | Slope \* diabetes | -1.46 (0.62) .02 |
| b | Level | 4.88 (0.07) <.01 |
| b | Slope | -0.03 (0.01) .01 |
| b | Level \* age | -0.05 (0.00) <.01 |
| b | Level \* education | 0.77 (0.06) <.01 |
| b | Level \* height | 0.01 (0.00) .01 |
| b | Level \* smoking | 0.01 (0.06) .88 |
| b | Level \* cardio | -0.19 (0.09) .04 |
| b | Level \* diabetes | -0.16 (0.11) .12 |
| b | Slope \* age | -0.00 (0.00) <.01 |
| b | Slope \* education | 0.00 (0.01) .89 |
| b | Slope \* height | 0.00 (0.00) .05 |
| b | Slope \* smoking | -0.02 (0.01) .02 |
| b | Slope \* cardio | 0.00 (0.01) .98 |
| b | Slope \* diabetes | -0.00 (0.02) .88 |
| a | Var (Level) | 3273.50 (227.50) <.01 |
| a | Var (Slope) | 9.59 (4.21) .02 |
| a | Var (Residual) | 1872.26 (177.47) <.01 |
| b | Var (Level) | 0.97 (0.08) <.01 |
| b | Var (Slope) | 0.00 (0.00) .02 |
| b | Var (Residual) | 1.39 (0.06) <.01 |
| a | Covar (Level, Slope) | -78.90 (26.04) <.01 |
| b | Covar (Level, Slope) | -0.02 (0.01) .07 |
|  | Correlation of Levels | 0.060 |
|  | Correlation of Slopes | -0.107 |
|  | Correlation of Residuals | 0.041 |
|  | N | 2,902 |
|  | occasions | 6 |
|  | parameters | 41 |
|  | LL | -46,253 |
|  | AIC | 92,588 |
|  | BIC | 92,833 |

## Summary

Study = *ELSA*; Gender = *male*; Process (a) = *fev100*

Computed correlations:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Levels | word\_de | 0.05 |
| Correlation of Levels | word\_im | 0.06 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Slopes | word\_de | -0.20 |
| Correlation of Slopes | word\_im | -0.11 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Correlation of Residuals | word\_de | 0.02 |
| Correlation of Residuals | word\_im | 0.04 |

P-values for corresponding covariances:

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Levels | word\_de | 0.18 |
| Covariance of Levels | word\_im | 0.12 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Slopes | word\_de | 0.54 |
| Covariance of Slopes | word\_im | 0.54 |

|  |  |  |
| --- | --- | --- |
| label | process\_b | aehplus |
| Covariance of Residuals | word\_de | 0.32 |
| Covariance of Residuals | word\_im | 0.09 |

#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\_2.2.0 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4   
[5] 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 tools\_3.3.1 boot\_1.3-18   
 [7] digest\_0.6.10 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34 texreg\_1.36.7   
[13] DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 coda\_0.18-1 dplyr\_0.5.0 stringr\_1.1.0   
[19] htmlwidgets\_0.7 grid\_3.3.1 DT\_0.2 data.table\_1.9.6 R6\_2.2.0 rmarkdown\_1.1   
[25] gsubfn\_0.6-6 pander\_0.6.0 tidyr\_0.6.0 reshape2\_1.4.1 readr\_1.0.0 scales\_0.4.1   
[31] htmltools\_0.3.5 rsconnect\_0.5 assertthat\_0.1 testit\_0.5 colorspace\_1.2-7 xtable\_1.8-2   
[37] stringi\_1.1.2 lazyeval\_0.2.0 munsell\_0.4.3 chron\_2.3-47