OCTO : Seed Report (dem\_ever\_0)

Date: 2017-05-02

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

# Available models

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

|  |  |  |
| --- | --- | --- |
| process\_a | process\_b | n\_models |
| gait | block | 8 |
| gait | clock | 8 |
| gait | digit\_b | 8 |
| gait | digit\_f | 8 |
| gait | fig\_logic | 8 |
| gait | information | 8 |
| gait | mir | 8 |
| gait | mir\_recog | 8 |
| gait | mmse | 8 |
| gait | prose\_im | 8 |
| gait | psif | 8 |
| gait | symbol | 8 |
| gait | synonyms | 8 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| octo | female | a | gait | block | 1 |
| octo | female | a | gait | clock | 1 |
| octo | female | a | gait | digit\_b | 1 |
| octo | female | a | gait | digit\_f | 1 |
| octo | female | a | gait | fig\_logic | 1 |
| octo | female | a | gait | information | 1 |
| octo | female | a | gait | mir | 1 |
| octo | female | a | gait | mir\_recog | 1 |
| octo | female | a | gait | mmse | 1 |
| octo | female | a | gait | prose\_im | 1 |
| octo | female | a | gait | psif | 1 |
| octo | female | a | gait | symbol | 1 |
| octo | female | a | gait | synonyms | 1 |
| octo | female | ae | gait | block | 1 |
| octo | female | ae | gait | clock | 1 |
| octo | female | ae | gait | digit\_b | 1 |
| octo | female | ae | gait | digit\_f | 1 |
| octo | female | ae | gait | fig\_logic | 1 |
| octo | female | ae | gait | information | 1 |
| octo | female | ae | gait | mir | 1 |
| octo | female | ae | gait | mir\_recog | 1 |
| octo | female | ae | gait | mmse | 1 |
| octo | female | ae | gait | prose\_im | 1 |
| octo | female | ae | gait | psif | 1 |
| octo | female | ae | gait | symbol | 1 |
| octo | female | ae | gait | synonyms | 1 |
| octo | female | aeh | gait | block | 1 |
| octo | female | aeh | gait | clock | 1 |
| octo | female | aeh | gait | digit\_b | 1 |
| octo | female | aeh | gait | digit\_f | 1 |
| octo | female | aeh | gait | fig\_logic | 1 |
| octo | female | aeh | gait | information | 1 |
| octo | female | aeh | gait | mir | 1 |
| octo | female | aeh | gait | mir\_recog | 1 |
| octo | female | aeh | gait | mmse | 1 |
| octo | female | aeh | gait | prose\_im | 1 |
| octo | female | aeh | gait | psif | 1 |
| octo | female | aeh | gait | symbol | 1 |
| octo | female | aeh | gait | synonyms | 1 |
| octo | female | aehplus | gait | block | 1 |
| octo | female | aehplus | gait | clock | 1 |
| octo | female | aehplus | gait | digit\_b | 1 |
| octo | female | aehplus | gait | digit\_f | 1 |
| octo | female | aehplus | gait | fig\_logic | 1 |
| octo | female | aehplus | gait | information | 1 |
| octo | female | aehplus | gait | mir | 1 |
| octo | female | aehplus | gait | mir\_recog | 1 |
| octo | female | aehplus | gait | mmse | 1 |
| octo | female | aehplus | gait | prose\_im | 1 |
| octo | female | aehplus | gait | psif | 1 |
| octo | female | aehplus | gait | symbol | 1 |
| octo | female | aehplus | gait | synonyms | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| octo | male | a | gait | block | 1 |
| octo | male | a | gait | clock | 1 |
| octo | male | a | gait | digit\_b | 1 |
| octo | male | a | gait | digit\_f | 1 |
| octo | male | a | gait | fig\_logic | 1 |
| octo | male | a | gait | information | 1 |
| octo | male | a | gait | mir | 1 |
| octo | male | a | gait | mir\_recog | 1 |
| octo | male | a | gait | mmse | 1 |
| octo | male | a | gait | prose\_im | 1 |
| octo | male | a | gait | psif | 1 |
| octo | male | a | gait | symbol | 1 |
| octo | male | a | gait | synonyms | 1 |
| octo | male | ae | gait | block | 1 |
| octo | male | ae | gait | clock | 1 |
| octo | male | ae | gait | digit\_b | 1 |
| octo | male | ae | gait | digit\_f | 1 |
| octo | male | ae | gait | fig\_logic | 1 |
| octo | male | ae | gait | information | 1 |
| octo | male | ae | gait | mir | 1 |
| octo | male | ae | gait | mir\_recog | 1 |
| octo | male | ae | gait | mmse | 1 |
| octo | male | ae | gait | prose\_im | 1 |
| octo | male | ae | gait | psif | 1 |
| octo | male | ae | gait | symbol | 1 |
| octo | male | ae | gait | synonyms | 1 |
| octo | male | aeh | gait | block | 1 |
| octo | male | aeh | gait | clock | 1 |
| octo | male | aeh | gait | digit\_b | 1 |
| octo | male | aeh | gait | digit\_f | 1 |
| octo | male | aeh | gait | fig\_logic | 1 |
| octo | male | aeh | gait | information | 1 |
| octo | male | aeh | gait | mir | 1 |
| octo | male | aeh | gait | mir\_recog | 1 |
| octo | male | aeh | gait | mmse | 1 |
| octo | male | aeh | gait | prose\_im | 1 |
| octo | male | aeh | gait | psif | 1 |
| octo | male | aeh | gait | symbol | 1 |
| octo | male | aeh | gait | synonyms | 1 |
| octo | male | aehplus | gait | block | 1 |
| octo | male | aehplus | gait | clock | 1 |
| octo | male | aehplus | gait | digit\_b | 1 |
| octo | male | aehplus | gait | digit\_f | 1 |
| octo | male | aehplus | gait | fig\_logic | 1 |
| octo | male | aehplus | gait | information | 1 |
| octo | male | aehplus | gait | mir | 1 |
| octo | male | aehplus | gait | mir\_recog | 1 |
| octo | male | aehplus | gait | mmse | 1 |
| octo | male | aehplus | gait | prose\_im | 1 |
| octo | male | aehplus | gait | psif | 1 |
| octo | male | aehplus | gait | symbol | 1 |
| octo | male | aehplus | gait | synonyms | 1 |

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *block*, *clock*, *digit\_b*, *digit\_f*, *fig\_logic*, *information*, *mir*, *mir\_recog*, *mmse*, *prose\_im*, *psif*, *symbol*, *synonyms*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| process | label | block | clock | digit\_b | digit\_f | fig\_logic | information | mir | mir\_recog | mmse | prose\_im | psif | symbol | synonyms | mean(sd) |
| ab | Covar (Levels) | -8.55 (3.00) <.01 | -0.90 (0.55) .10 | -0.76 (0.31) .01 | -0.28 (0.22) .22 | -4.35 (2.81) .12 | -3.15 (2.80) .26 | -1.11 (0.47) .02 | --- | -1.33 (0.59) .02 | -1.31 (1.09) .23 | --- | -10.73 (5.36) .04 | -1.40 (2.17) .52 | --- |
| ab | Covar (Slopes) | -0.21 (0.63) .74 | -0.08 (0.17) .65 | 0.01 (0.04) .75 | -0.01 (0.01) .29 | 0.03 (0.16) .83 | 0.02 (0.04) .61 | 0.00 (0.05) .97 | --- | -0.04 (0.09) .66 | -0.08 (0.10) .44 | --- | -0.27 (0.65) .68 | -0.22 (0.53) .68 | --- |
| ab | Covar (Residuals) | -1.65 (0.67) .01 | -1.37 (0.94) .14 | 0.11 (0.21) .60 | -0.10 (0.10) .28 | -0.66 (0.65) .31 | -0.72 (0.51) .15 | -0.55 (0.23) .02 | --- | -0.06 (0.53) .91 | -0.40 (0.26) .13 | --- | -2.12 (1.52) .16 | -1.22 (0.69) .08 | --- |
| er | Corr (Levels) | -0.44 (0.13) <.01 | -0.19 (0.14) .16 | -0.30 (0.11) <.01 | -0.11 (0.08) .20 | -0.43 (0.21) .04 | -0.10 (0.09) .25 | -0.21 (0.08) .01 | --- | -0.27 (0.11) .01 | -0.14 (0.12) .25 | --- | -0.37 (0.14) .01 | -0.10 (0.15) .51 | --- |
| er | Corr (Slopes) | -0.49 (0.62) .42 | -0.25 (0.24) .29 | 0.23 (0.46) .61 | -0.12 (0.18) .51 | 0.12 (0.45) .79 | 0.04 (0.08) .61 | 0.01 (0.16) .97 | --- | -0.07 (0.23) .77 | -0.23 (0.08) <.01 | --- | -0.42 (0.44) .35 | -0.48 (0.48) .31 | --- |
| er | Corr (Residuals) | -0.15 (0.05) <.01 | -0.26 (0.15) .07 | 0.03 (0.06) .58 | -0.04 (0.04) .31 | -0.07 (0.07) .33 | -0.05 (0.04) .17 | -0.12 (0.05) .03 | --- | -0.01 (0.07) .91 | -0.06 (0.04) .13 | --- | -0.12 (0.08) .13 | -0.14 (0.07) .04 | --- |
| a | Level | 10.27 (0.46) <.01 | 10.31 (0.51) <.01 | 10.29 (0.46) <.01 | 10.30 (0.47) <.01 | 10.28 (0.47) <.01 | 10.30 (0.46) <.01 | 10.29 (0.47) <.01 | --- | 10.27 (0.47) <.01 | 10.32 (0.48) <.01 | --- | 10.27 (0.51) <.01 | 10.31 (0.48) <.01 | 10.29(0.02) |
| a | Slope | 14.62 (0.83) <.01 | 14.80 (0.25) <.01 | 3.86 (0.14) <.01 | 5.67 (0.13) <.01 | 17.05 (0.50) <.01 | 29.64 (1.17) <.01 | 7.73 (0.24) <.01 | --- | 29.14 (0.26) <.01 | 11.16 (0.41) <.01 | --- | 28.22 (1.27) <.01 | 17.09 (0.65) <.01 | 16.27(9.27) |
| a | Level \* age | 0.33 (0.09) <.01 | 0.32 (0.10) <.01 | 0.32 (0.09) <.01 | 0.31 (0.09) <.01 | 0.32 (0.09) <.01 | 0.31 (0.09) <.01 | 0.33 (0.09) <.01 | --- | 0.33 (0.09) <.01 | 0.31 (0.09) <.01 | --- | 0.32 (0.09) <.01 | 0.32 (0.09) <.01 | 0.32(0.01) |
| a | Level \* education | -0.30 (0.13) .02 | -0.30 (0.14) .03 | -0.31 (0.13) .02 | -0.31 (0.13) .02 | -0.32 (0.13) .02 | -0.32 (0.13) .02 | -0.32 (0.13) .02 | --- | -0.30 (0.13) .02 | -0.32 (0.13) .02 | --- | -0.31 (0.13) .02 | -0.32 (0.13) .02 | -0.31(0.01) |
| a | Level \* height | -4.50 (5.54) .42 | -3.68 (6.59) .58 | -4.21 (5.58) .45 | -4.32 (5.59) .44 | -4.00 (5.61) .47 | -4.40 (5.61) .43 | -4.38 (5.59) .43 | --- | -4.11 (5.53) .46 | -4.57 (5.65) .42 | --- | -4.55 (6.09) .46 | -4.04 (5.68) .48 | -4.25(0.27) |
| a | Level \* smoking | 0.03 (0.77) .96 | 0.04 (0.80) .96 | 0.02 (0.78) .97 | 0.03 (0.77) .97 | 0.03 (0.77) .97 | 0.04 (0.77) .96 | -0.02 (0.76) .98 | --- | 0.09 (0.78) .91 | 0.04 (0.78) .96 | --- | 0.02 (0.79) .98 | 0.01 (0.77) .99 | 0.03(0.03) |
| a | Level \* cardio | 0.79 (0.51) .12 | 0.69 (0.58) .24 | 0.75 (0.51) .14 | 0.73 (0.51) .15 | 0.75 (0.52) .15 | 0.74 (0.51) .15 | 0.70 (0.51) .17 | --- | 0.79 (0.52) .13 | 0.72 (0.52) .16 | --- | 0.77 (0.53) .15 | 0.70 (0.52) .18 | 0.74(0.04) |
| a | Level \* diabetes | 1.50 (1.44) .30 | 1.79 (1.51) .23 | 1.56 (1.45) .28 | 1.61 (1.47) .28 | 1.57 (1.44) .28 | 1.64 (1.43) .25 | 1.64 (1.43) .25 | --- | 1.55 (1.46) .29 | 1.63 (1.38) .24 | --- | 1.60 (1.45) .27 | 1.60 (1.44) .27 | 1.61(0.08) |
| a | Slope \* age | 0.01 (0.07) .91 | -0.00 (0.06) .98 | -0.01 (0.05) .86 | -0.01 (0.05) .91 | -0.00 (0.05) .96 | -0.01 (0.05) .86 | -0.01 (0.04) .82 | --- | -0.01 (0.04) .88 | -0.01 (0.04) .85 | --- | -0.01 (0.05) .87 | -0.00 (0.05) .92 | -0.01(0.00) |
| a | Slope \* education | -0.03 (0.06) .65 | -0.02 (0.03) .61 | -0.03 (0.07) .66 | -0.03 (0.06) .67 | -0.02 (0.05) .66 | -0.02 (0.06) .70 | -0.02 (0.05) .64 | --- | -0.02 (0.06) .66 | -0.03 (0.05) .57 | --- | -0.03 (0.04) .53 | -0.02 (0.05) .65 | -0.02(0.00) |
| a | Slope \* height | 0.91 (2.63) .73 | 1.18 (1.92) .54 | 1.02 (3.07) .74 | 0.83 (2.71) .76 | 1.01 (2.69) .71 | 0.73 (2.48) .77 | 1.04 (2.47) .67 | --- | 0.85 (2.37) .72 | 1.25 (2.56) .62 | --- | 0.74 (1.58) .64 | 0.78 (2.28) .73 | 0.94(0.18) |
| a | Slope \* smoking | 0.08 (0.20) .70 | 0.07 (0.18) .71 | 0.06 (0.22) .79 | 0.05 (0.20) .79 | 0.04 (0.18) .80 | 0.04 (0.19) .83 | 0.03 (0.17) .88 | --- | 0.06 (0.19) .74 | 0.04 (0.17) .84 | --- | 0.08 (0.14) .60 | 0.07 (0.19) .72 | 0.06(0.02) |
| a | Slope \* cardio | -0.17 (0.22) .44 | -0.13 (0.18) .47 | -0.20 (0.25) .42 | -0.21 (0.25) .40 | -0.17 (0.20) .41 | -0.21 (0.24) .39 | -0.19 (0.23) .41 | --- | -0.18 (0.23) .42 | -0.20 (0.24) .39 | --- | -0.17 (0.25) .49 | -0.19 (0.23) .41 | -0.18(0.02) |
| a | Slope \* diabetes | 0.98 (0.98) .31 | 0.94 (0.74) .20 | 1.04 (1.06) .33 | 1.03 (1.07) .34 | 1.01 (0.95) .28 | 0.95 (0.97) .32 | 0.95 (0.92) .30 | --- | 1.02 (0.98) .30 | 1.12 (1.01) .27 | --- | 0.95 (0.77) .22 | 1.00 (0.92) .28 | 1.00(0.05) |
| b | Level | 0.53 (0.38) .16 | 0.52 (0.24) .03 | 0.56 (0.44) .21 | 0.53 (0.42) .20 | 0.52 (0.35) .14 | 0.53 (0.39) .18 | 0.54 (0.37) .15 | --- | 0.53 (0.39) .18 | 0.56 (0.37) .12 | --- | 0.52 (0.24) .03 | 0.52 (0.34) .12 | --- |
| b | Slope | -0.22 (0.12) .07 | -0.13 (0.07) .05 | -0.09 (0.03) <.01 | -0.08 (0.02) <.01 | -0.11 (0.09) .20 | -0.12 (0.14) .40 | -0.01 (0.06) .90 | --- | -0.22 (0.09) .01 | -0.04 (0.07) .52 | --- | -0.13 (0.19) .48 | -0.05 (0.12) .68 | --- |
| b | Level \* age | -0.60 (0.16) <.01 | -0.13 (0.05) .01 | -0.10 (0.03) <.01 | -0.08 (0.02) <.01 | -0.29 (0.10) <.01 | -0.66 (0.24) <.01 | -0.16 (0.05) <.01 | --- | -0.24 (0.05) <.01 | -0.25 (0.09) <.01 | --- | -0.80 (0.29) <.01 | -0.11 (0.13) .39 | --- |
| b | Level \* education | 0.78 (0.21) <.01 | 0.06 (0.04) .11 | 0.12 (0.04) <.01 | 0.14 (0.03) <.01 | 0.29 (0.14) .03 | 2.14 (0.26) <.01 | 0.03 (0.07) .68 | --- | 0.27 (0.06) <.01 | 0.46 (0.11) <.01 | --- | 1.75 (0.41) <.01 | 1.28 (0.15) <.01 | --- |
| b | Level \* height | -2.12 (6.93) .76 | -1.30 (2.90) .66 | -0.39 (1.35) .77 | 0.77 (1.06) .47 | -1.87 (4.63) .69 | 0.74 (12.91) .95 | -1.49 (2.05) .47 | --- | 1.31 (2.62) .62 | 1.25 (4.01) .76 | --- | 7.08 (12.22) .56 | 10.98 (6.78) .10 | --- |
| b | Level \* smoking | -1.18 (1.01) .24 | 0.05 (0.20) .78 | -0.33 (0.19) .09 | -0.15 (0.15) .32 | -1.09 (0.65) .09 | 0.87 (1.32) .51 | 0.08 (0.31) .80 | --- | -0.52 (0.36) .15 | 0.21 (0.50) .68 | --- | -0.74 (1.84) .69 | 0.24 (0.78) .75 | --- |
| b | Level \* cardio | -0.07 (0.79) .92 | 0.29 (0.23) .21 | 0.06 (0.14) .68 | 0.05 (0.13) .71 | -0.45 (0.51) .38 | 1.38 (1.15) .23 | 0.07 (0.25) .77 | --- | -0.31 (0.29) .28 | 0.25 (0.42) .55 | --- | 1.22 (1.27) .34 | 0.45 (0.66) .50 | --- |
| b | Level \* diabetes | 1.00 (2.48) .68 | -0.60 (0.49) .22 | -0.09 (0.30) .76 | 0.09 (0.27) .74 | 0.67 (1.01) .50 | -0.72 (2.67) .79 | 0.22 (0.45) .62 | --- | -0.36 (0.66) .58 | -1.76 (1.19) .14 | --- | -3.05 (3.36) .36 | -2.34 (1.36) .08 | --- |
| b | Slope \* age | -0.00 (0.03) .90 | -0.02 (0.01) .13 | 0.01 (0.01) .13 | 0.00 (0.00) .44 | -0.00 (0.02) .92 | -0.04 (0.03) .25 | -0.02 (0.01) .19 | --- | -0.05 (0.02) .01 | 0.02 (0.02) .13 | --- | -0.01 (0.04) .84 | -0.01 (0.02) .74 | --- |
| b | Slope \* education | -0.04 (0.04) .28 | -0.00 (0.02) .87 | 0.00 (0.01) .98 | -0.01 (0.00) .02 | -0.03 (0.03) .36 | -0.04 (0.04) .34 | -0.00 (0.02) .86 | --- | 0.02 (0.03) .52 | -0.05 (0.02) .02 | --- | -0.04 (0.06) .51 | -0.01 (0.03) .76 | --- |
| b | Slope \* height | 1.17 (0.88) .18 | -0.62 (0.64) .34 | 0.12 (0.26) .66 | -0.18 (0.19) .33 | 0.60 (0.85) .48 | 1.67 (1.42) .24 | 0.46 (0.56) .42 | --- | -0.52 (0.91) .57 | 0.60 (0.78) .44 | --- | 1.10 (1.86) .55 | 0.23 (1.07) .83 | --- |
| b | Slope \* smoking | 0.01 (0.15) .95 | 0.00 (0.08) .99 | 0.05 (0.03) .09 | 0.04 (0.03) .12 | 0.13 (0.12) .29 | -0.05 (0.19) .81 | -0.06 (0.09) .46 | --- | -0.14 (0.15) .35 | -0.09 (0.10) .35 | --- | -0.39 (0.29) .18 | -0.11 (0.16) .51 | --- |
| b | Slope \* cardio | -0.14 (0.13) .28 | -0.06 (0.08) .42 | -0.03 (0.03) .26 | -0.00 (0.02) .88 | 0.06 (0.11) .57 | -0.46 (0.16) <.01 | -0.06 (0.07) .35 | --- | -0.04 (0.12) .75 | -0.07 (0.09) .40 | --- | -0.74 (0.20) <.01 | -0.01 (0.14) .92 | --- |
| b | Slope \* diabetes | -0.04 (0.27) .87 | -0.13 (0.13) .34 | 0.04 (0.05) .45 | -0.00 (0.05) .92 | -0.09 (0.18) .61 | 0.46 (0.41) .26 | 0.07 (0.14) .60 | --- | -0.04 (0.20) .83 | 0.10 (0.15) .52 | --- | 1.37 (0.50) .01 | -0.10 (0.37) .78 | --- |
| a | Var (Level) | 11.87 (2.31) <.01 | 12.16 (3.59) <.01 | 11.80 (2.38) <.01 | 11.98 (2.28) <.01 | 11.94 (2.51) <.01 | 11.86 (2.29) <.01 | 11.87 (2.56) <.01 | --- | 11.98 (2.33) <.01 | 11.87 (2.90) <.01 | --- | 12.09 (4.01) <.01 | 11.96 (2.92) <.01 | 11.94(0.11) |
| a | Var (Slope) | 1.00 (2.89) .73 | 0.83 (2.44) .73 | 1.19 (3.66) .75 | 1.02 (3.10) .74 | 0.94 (2.49) .71 | 1.07 (3.01) .72 | 1.02 (2.61) .69 | --- | 0.99 (2.89) .73 | 1.34 (2.79) .63 | --- | 0.88 (2.28) .70 | 0.95 (2.23) .67 | 1.02(0.14) |
| a | Var (Residual) | 11.33 (3.12) <.01 | 11.88 (2.97) <.01 | 10.97 (3.36) <.01 | 11.22 (3.33) <.01 | 11.39 (2.98) <.01 | 11.17 (3.02) <.01 | 11.27 (2.89) <.01 | --- | 11.32 (3.15) <.01 | 10.66 (2.81) <.01 | --- | 11.49 (2.52) <.01 | 11.39 (2.81) <.01 | 11.28(0.30) |
| b | Var (Level) | 32.47 (4.00) <.01 | 1.83 (0.98) .06 | 0.53 (0.16) <.01 | 0.55 (0.07) <.01 | 8.49 (2.26) <.01 | 76.75 (8.56) <.01 | 2.43 (0.48) <.01 | --- | 2.08 (0.57) <.01 | 7.87 (0.94) <.01 | --- | 70.58 (9.59) <.01 | 17.09 (2.24) <.01 | --- |
| b | Var (Slope) | 0.18 (0.16) .26 | 0.12 (0.04) <.01 | 0.00 (0.00) .61 | 0.01 (0.00) .06 | 0.09 (0.04) .06 | 0.30 (0.09) <.01 | 0.09 (0.02) <.01 | --- | 0.33 (0.08) <.01 | 0.08 (0.03) <.01 | --- | 0.47 (0.24) .05 | 0.22 (0.15) .14 | --- |
| b | Var (Residual) | 10.94 (0.84) <.01 | 2.34 (0.42) <.01 | 1.16 (0.11) <.01 | 0.61 (0.05) <.01 | 8.00 (0.60) <.01 | 16.45 (1.42) <.01 | 1.85 (0.17) <.01 | --- | 4.49 (0.68) <.01 | 4.28 (0.38) <.01 | --- | 27.76 (2.42) <.01 | 6.80 (0.59) <.01 | --- |
| a | Covar (Level, Slope) | 3.27 (4.91) .51 | 3.07 (3.93) .43 | 3.47 (5.47) .53 | 3.28 (5.19) .53 | 3.20 (4.60) .49 | 3.34 (5.03) .51 | 3.29 (4.65) .48 | --- | 3.28 (5.08) .52 | 3.47 (4.27) .42 | --- | 3.13 (3.62) .39 | 3.21 (4.24) .45 | 3.27(0.13) |
| b | Covar (Level, Slope) | -0.43 (0.84) .60 | 0.10 (0.12) .40 | -0.02 (0.02) .46 | -0.04 (0.01) .01 | -0.34 (0.25) .18 | 0.88 (0.66) .18 | -0.01 (0.07) .90 | --- | 0.30 (0.18) .09 | -0.40 (0.12) <.01 | --- | -1.47 (1.03) .15 | -0.09 (0.37) .81 | --- |
|  | Correlation of Levels | -0.44 | -0.19 | -0.305 | -0.11 | -0.432 | -0.104 | -0.2072 | NaN | -0.267 | -0.136 | NaN | -0.37 | -0.098 | -0.24(0.13) |
|  | Correlation of Slopes | -0.49 | -0.25 | 0.267 | -0.11 | 0.120 | 0.039 | 0.0067 | NaN | -0.067 | -0.227 | NaN | -0.42 | -0.485 | -0.15(0.25) |
|  | Correlation of Residuals | -0.15 | -0.26 | 0.031 | -0.04 | -0.069 | -0.053 | -0.1198 | NaN | -0.008 | -0.058 | NaN | -0.12 | -0.138 | -0.09(0.08) |
|  | N | 273 | 276 | 276 | 276 | 270 | 275 | 272 | NA | 276 | 269 | NA | 266 | 268 | 272.45(3.70) |
|  | occasions | 5 | 5 | 5 | 5 | 5 | 5 | 5 | NA | 5 | 5 | NA | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 41 | 41 | 41 | 41 | 41 | 41 | NA | 41 | 41 | NA | 41 | 41 | 41.00(0.00) |
|  | LL | -4,815 | -4,336 | -3,894 | -3,648 | -4,328 | -5,277 | -4,131 | NA | -4,757 | -4,306 | NA | -4,834 | -4,308 | -4,421(466) |
|  | AIC | 9,713 | 8,754 | 7,870 | 7,379 | 8,737 | 10,636 | 8,344 | NA | 9,596 | 8,694 | NA | 9,749 | 8,699 | 8,925(932) |
|  | BIC | 9,861 | 8,903 | 8,019 | 7,527 | 8,885 | 10,784 | 8,492 | NA | 9,745 | 8,842 | NA | 9,896 | 8,846 | 9,073(932) |

## block

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -10.91 (4.10) .01 | -9.21 (3.54) .01 | -8.63 (3.23) .01 | -8.55 (3.00) <.01 |
| ab | Covar (Slopes) | -0.15 (0.37) .69 | -0.16 (0.40) .68 | -0.21 (0.46) .65 | -0.21 (0.63) .74 |
| ab | Covar (Residuals) | -1.71 (0.79) .03 | -1.71 (0.82) .04 | -1.71 (0.78) .03 | -1.65 (0.67) .01 |
| er | Corr (Levels) | -0.49 (0.13) <.01 | -0.44 (0.13) <.01 | -0.43 (0.12) <.01 | -0.44 (0.13) <.01 |
| er | Corr (Slopes) | -0.41 (0.49) .41 | -0.43 (0.48) .37 | -0.50 (0.48) .30 | -0.49 (0.62) .42 |
| er | Corr (Residuals) | -0.15 (0.06) .01 | -0.15 (0.06) .01 | -0.15 (0.06) .01 | -0.15 (0.05) <.01 |
| a | Level | 10.73 (0.40) <.01 | 10.76 (0.41) <.01 | 10.65 (0.41) <.01 | 10.27 (0.46) <.01 |
| a | Slope | 14.34 (0.65) <.01 | 14.14 (0.62) <.01 | 14.33 (0.66) <.01 | 14.62 (0.83) <.01 |
| a | Level \* age | 0.40 (0.09) <.01 | 0.39 (0.09) <.01 | 0.35 (0.09) <.01 | 0.33 (0.09) <.01 |
| a | Level \* education | --- | -0.33 (0.11) <.01 | -0.33 (0.11) <.01 | -0.30 (0.13) .02 |
| a | Level \* height | --- | --- | -4.58 (6.37) .47 | -4.50 (5.54) .42 |
| a | Level \* smoking | --- | --- | --- | 0.03 (0.77) .96 |
| a | Level \* cardio | --- | --- | --- | 0.79 (0.51) .12 |
| a | Level \* diabetes | --- | --- | --- | 1.50 (1.44) .30 |
| a | Slope \* age | 0.01 (0.06) .87 | 0.01 (0.06) .89 | 0.01 (0.05) .78 | 0.01 (0.07) .91 |
| a | Slope \* education | --- | -0.01 (0.03) .63 | -0.01 (0.03) .66 | -0.03 (0.06) .65 |
| a | Slope \* height | --- | --- | 0.73 (1.91) .70 | 0.91 (2.63) .73 |
| a | Slope \* smoking | --- | --- | --- | 0.08 (0.20) .70 |
| a | Slope \* cardio | --- | --- | --- | -0.17 (0.22) .44 |
| a | Slope \* diabetes | --- | --- | --- | 0.98 (0.98) .31 |
| b | Level | 0.46 (0.18) .01 | 0.46 (0.18) .01 | 0.49 (0.18) .01 | 0.53 (0.38) .16 |
| b | Slope | -0.30 (0.08) <.01 | -0.28 (0.08) <.01 | -0.28 (0.09) <.01 | -0.22 (0.12) .07 |
| b | Level \* age | -0.65 (0.15) <.01 | -0.59 (0.15) <.01 | -0.58 (0.16) <.01 | -0.60 (0.16) <.01 |
| b | Level \* education | --- | 0.68 (0.20) <.01 | 0.71 (0.21) <.01 | 0.78 (0.21) <.01 |
| b | Level \* height | --- | --- | -1.77 (6.75) .79 | -2.12 (6.93) .76 |
| b | Level \* smoking | --- | --- | --- | -1.18 (1.01) .24 |
| b | Level \* cardio | --- | --- | --- | -0.07 (0.79) .92 |
| b | Level \* diabetes | --- | --- | --- | 1.00 (2.48) .68 |
| b | Slope \* age | -0.01 (0.02) .78 | -0.01 (0.02) .71 | -0.00 (0.02) .82 | -0.00 (0.03) .90 |
| b | Slope \* education | --- | -0.02 (0.04) .48 | -0.03 (0.04) .33 | -0.04 (0.04) .28 |
| b | Slope \* height | --- | --- | 1.22 (0.86) .16 | 1.17 (0.88) .18 |
| b | Slope \* smoking | --- | --- | --- | 0.01 (0.15) .95 |
| b | Slope \* cardio | --- | --- | --- | -0.14 (0.13) .28 |
| b | Slope \* diabetes | --- | --- | --- | -0.04 (0.27) .87 |
| a | Var (Level) | 13.17 (4.30) <.01 | 12.64 (4.08) <.01 | 12.31 (4.05) <.01 | 11.87 (2.31) <.01 |
| a | Var (Slope) | 0.68 (1.80) .70 | 0.72 (1.92) .71 | 0.94 (2.14) .66 | 1.00 (2.89) .73 |
| a | Var (Residual) | 11.91 (2.79) <.01 | 11.81 (2.75) <.01 | 11.52 (2.58) <.01 | 11.33 (3.12) <.01 |
| b | Var (Level) | 37.03 (4.47) <.01 | 34.08 (4.20) <.01 | 32.70 (4.47) <.01 | 32.47 (4.00) <.01 |
| b | Var (Slope) | 0.19 (0.10) .06 | 0.19 (0.11) .07 | 0.19 (0.12) .12 | 0.18 (0.16) .26 |
| b | Var (Residual) | 10.73 (0.82) <.01 | 10.77 (0.83) <.01 | 10.94 (0.85) <.01 | 10.94 (0.84) <.01 |
| a | Covar (Level, Slope) | 2.86 (3.43) .40 | 2.89 (3.47) .40 | 3.23 (3.55) .36 | 3.27 (4.91) .51 |
| b | Covar (Level, Slope) | -0.57 (0.49) .24 | -0.54 (0.47) .26 | -0.43 (0.51) .39 | -0.43 (0.84) .60 |
|  | Correlation of Levels | -0.49 | -0.44 | -0.43 | -0.44 |
|  | Correlation of Slopes | -0.41 | -0.44 | -0.50 | -0.49 |
|  | Correlation of Residuals | -0.15 | -0.15 | -0.15 | -0.15 |
|  | N | 294 | 292 | 273 | 273 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,981 | -4,964 | -4,822 | -4,815 |
|  | AIC | 10,004 | 9,978 | 9,703 | 9,713 |
|  | BIC | 10,081 | 10,070 | 9,807 | 9,861 |

## clock

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.09 (2.97) .17 | -2.16 (1.32) .10 | -0.84 (0.53) .11 | -0.90 (0.55) .10 |
| ab | Covar (Slopes) | 0.02 (0.54) .97 | -0.01 (0.37) .98 | -0.07 (0.18) .68 | -0.08 (0.17) .65 |
| ab | Covar (Residuals) | -2.23 (1.64) .17 | -2.07 (1.99) .30 | -1.45 (0.98) .14 | -1.37 (0.94) .14 |
| er | Corr (Levels) | -0.43 (0.19) .03 | -0.31 (0.16) .05 | -0.17 (0.12) .16 | -0.19 (0.14) .16 |
| er | Corr (Slopes) | 0.08 (2.26) .97 | -0.03 (1.39) .98 | -0.25 (0.26) .35 | -0.25 (0.24) .29 |
| er | Corr (Residuals) | -0.37 (0.22) .09 | -0.35 (0.26) .19 | -0.27 (0.15) .07 | -0.26 (0.15) .07 |
| a | Level | 10.89 (0.47) <.01 | 10.84 (0.42) <.01 | 10.65 (0.41) <.01 | 10.31 (0.51) <.01 |
| a | Slope | 14.76 (0.24) <.01 | 14.86 (0.21) <.01 | 14.94 (0.15) <.01 | 14.80 (0.25) <.01 |
| a | Level \* age | 0.39 (0.10) <.01 | 0.38 (0.10) <.01 | 0.34 (0.10) <.01 | 0.32 (0.10) <.01 |
| a | Level \* education | --- | -0.33 (0.11) <.01 | -0.32 (0.11) <.01 | -0.30 (0.14) .03 |
| a | Level \* height | --- | --- | -3.81 (6.65) .57 | -3.68 (6.59) .58 |
| a | Level \* smoking | --- | --- | --- | 0.04 (0.80) .96 |
| a | Level \* cardio | --- | --- | --- | 0.69 (0.58) .24 |
| a | Level \* diabetes | --- | --- | --- | 1.79 (1.51) .23 |
| a | Slope \* age | 0.01 (0.09) .90 | 0.01 (0.09) .94 | 0.01 (0.06) .90 | -0.00 (0.06) .98 |
| a | Slope \* education | --- | -0.00 (0.02) .91 | -0.00 (0.02) .83 | -0.02 (0.03) .61 |
| a | Slope \* height | --- | --- | 0.99 (1.93) .61 | 1.18 (1.92) .54 |
| a | Slope \* smoking | --- | --- | --- | 0.07 (0.18) .71 |
| a | Slope \* cardio | --- | --- | --- | -0.13 (0.18) .47 |
| a | Slope \* diabetes | --- | --- | --- | 0.94 (0.74) .20 |
| b | Level | 0.45 (0.26) .09 | 0.44 (0.27) .10 | 0.49 (0.23) .03 | 0.52 (0.24) .03 |
| b | Slope | -0.13 (0.06) .04 | -0.13 (0.06) .03 | -0.16 (0.05) <.01 | -0.13 (0.07) .05 |
| b | Level \* age | -0.21 (0.07) <.01 | -0.18 (0.06) .01 | -0.14 (0.05) .01 | -0.13 (0.05) .01 |
| b | Level \* education | --- | 0.06 (0.05) .27 | 0.06 (0.04) .16 | 0.06 (0.04) .11 |
| b | Level \* height | --- | --- | -1.29 (2.89) .66 | -1.30 (2.90) .66 |
| b | Level \* smoking | --- | --- | --- | 0.05 (0.20) .78 |
| b | Level \* cardio | --- | --- | --- | 0.29 (0.23) .21 |
| b | Level \* diabetes | --- | --- | --- | -0.60 (0.49) .22 |
| b | Slope \* age | -0.02 (0.02) .29 | -0.02 (0.01) .23 | -0.02 (0.01) .07 | -0.02 (0.01) .13 |
| b | Slope \* education | --- | -0.00 (0.01) .70 | -0.00 (0.01) .91 | -0.00 (0.02) .87 |
| b | Slope \* height | --- | --- | -0.56 (0.65) .39 | -0.62 (0.64) .34 |
| b | Slope \* smoking | --- | --- | --- | 0.00 (0.08) .99 |
| b | Slope \* cardio | --- | --- | --- | -0.06 (0.08) .42 |
| b | Slope \* diabetes | --- | --- | --- | -0.13 (0.13) .34 |
| a | Var (Level) | 15.51 (8.86) .08 | 13.78 (4.12) <.01 | 12.62 (3.76) <.01 | 12.16 (3.59) <.01 |
| a | Var (Slope) | 0.50 (2.50) .84 | 0.51 (2.49) .84 | 0.77 (2.39) .75 | 0.83 (2.44) .73 |
| a | Var (Residual) | 13.04 (3.88) <.01 | 12.82 (4.02) <.01 | 12.12 (3.11) <.01 | 11.88 (2.97) <.01 |
| b | Var (Level) | 5.93 (1.62) <.01 | 3.57 (1.34) .01 | 1.88 (0.97) .05 | 1.83 (0.98) .06 |
| b | Var (Slope) | 0.13 (0.07) .08 | 0.13 (0.07) .08 | 0.12 (0.04) <.01 | 0.12 (0.04) <.01 |
| b | Var (Residual) | 2.75 (0.59) <.01 | 2.73 (0.64) <.01 | 2.35 (0.42) <.01 | 2.34 (0.42) <.01 |
| a | Covar (Level, Slope) | 2.66 (4.34) .54 | 2.55 (4.28) .55 | 2.99 (4.00) .45 | 3.07 (3.93) .43 |
| b | Covar (Level, Slope) | -0.18 (0.28) .52 | -0.08 (0.27) .78 | 0.10 (0.12) .39 | 0.10 (0.12) .40 |
|  | Correlation of Levels | -0.426 | -0.308 | -0.17 | -0.19 |
|  | Correlation of Slopes | 0.079 | -0.031 | -0.25 | -0.25 |
|  | Correlation of Residuals | -0.372 | -0.350 | -0.27 | -0.26 |
|  | N | 303 | 298 | 276 | 276 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,633 | -4,563 | -4,342 | -4,336 |
|  | AIC | 9,307 | 9,176 | 8,743 | 8,754 |
|  | BIC | 9,385 | 9,268 | 8,848 | 8,903 |

## digit\_b

Gender = *female*; Process (a) = *gait*; Process (b) = *digit\_b*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -0.89 (0.43) .04 | -0.74 (0.40) .06 | -0.77 (0.33) .02 | -0.76 (0.31) .01 |
| ab | Covar (Slopes) | 0.01 (0.03) .77 | 0.01 (0.03) .74 | 0.01 (0.05) .79 | 0.01 (0.04) .75 |
| ab | Covar (Residuals) | 0.12 (0.25) .62 | 0.12 (0.25) .61 | 0.11 (0.21) .59 | 0.11 (0.21) .60 |
| er | Corr (Levels) | -0.32 (0.13) .01 | -0.29 (0.13) .03 | -0.30 (0.12) .01 | -0.30 (0.11) <.01 |
| er | Corr (Slopes) | 0.19 (0.49) .70 | 0.22 (0.52) .67 | 0.22 (0.48) .64 | 0.23 (0.46) .61 |
| er | Corr (Residuals) | 0.03 (0.07) .62 | 0.03 (0.07) .61 | 0.03 (0.06) .58 | 0.03 (0.06) .58 |
| a | Level | 10.68 (0.41) <.01 | 10.71 (0.41) <.01 | 10.64 (0.41) <.01 | 10.29 (0.46) <.01 |
| a | Slope | 3.73 (0.12) <.01 | 3.71 (0.12) <.01 | 3.79 (0.12) <.01 | 3.86 (0.14) <.01 |
| a | Level \* age | 0.38 (0.08) <.01 | 0.38 (0.09) <.01 | 0.34 (0.09) <.01 | 0.32 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.34 (0.11) <.01 | -0.31 (0.13) .02 |
| a | Level \* height | --- | --- | -4.33 (5.68) .44 | -4.21 (5.58) .45 |
| a | Level \* smoking | --- | --- | --- | 0.02 (0.78) .97 |
| a | Level \* cardio | --- | --- | --- | 0.75 (0.51) .14 |
| a | Level \* diabetes | --- | --- | --- | 1.56 (1.45) .28 |
| a | Slope \* age | -0.01 (0.05) .90 | -0.01 (0.05) .91 | 0.00 (0.06) .99 | -0.01 (0.05) .86 |
| a | Slope \* education | --- | -0.01 (0.03) .63 | -0.02 (0.06) .76 | -0.03 (0.07) .66 |
| a | Slope \* height | --- | --- | 0.91 (3.33) .78 | 1.02 (3.07) .74 |
| a | Slope \* smoking | --- | --- | --- | 0.06 (0.22) .79 |
| a | Slope \* cardio | --- | --- | --- | -0.20 (0.25) .42 |
| a | Slope \* diabetes | --- | --- | --- | 1.04 (1.06) .33 |
| b | Level | 0.46 (0.18) .01 | 0.46 (0.18) .01 | 0.50 (0.46) .27 | 0.56 (0.44) .21 |
| b | Slope | -0.08 (0.02) <.01 | -0.08 (0.02) <.01 | -0.09 (0.02) <.01 | -0.09 (0.03) <.01 |
| b | Level \* age | -0.07 (0.03) .01 | -0.07 (0.03) .01 | -0.09 (0.03) <.01 | -0.10 (0.03) <.01 |
| b | Level \* education | --- | 0.10 (0.03) <.01 | 0.10 (0.04) .01 | 0.12 (0.04) <.01 |
| b | Level \* height | --- | --- | -0.43 (1.36) .75 | -0.39 (1.35) .77 |
| b | Level \* smoking | --- | --- | --- | -0.33 (0.19) .09 |
| b | Level \* cardio | --- | --- | --- | 0.06 (0.14) .68 |
| b | Level \* diabetes | --- | --- | --- | -0.09 (0.30) .76 |
| b | Slope \* age | 0.00 (0.01) .40 | 0.01 (0.01) .33 | 0.01 (0.01) .13 | 0.01 (0.01) .13 |
| b | Slope \* education | --- | 0.00 (0.01) .42 | 0.00 (0.01) .50 | 0.00 (0.01) .98 |
| b | Slope \* height | --- | --- | 0.12 (0.27) .67 | 0.12 (0.26) .66 |
| b | Slope \* smoking | --- | --- | --- | 0.05 (0.03) .09 |
| b | Slope \* cardio | --- | --- | --- | -0.03 (0.03) .26 |
| b | Slope \* diabetes | --- | --- | --- | 0.04 (0.05) .45 |
| a | Var (Level) | 12.91 (3.94) <.01 | 12.42 (3.78) <.01 | 12.15 (3.04) <.01 | 11.80 (2.38) <.01 |
| a | Var (Slope) | 0.90 (2.28) .69 | 0.92 (2.30) .69 | 1.19 (4.16) .78 | 1.19 (3.66) .75 |
| a | Var (Residual) | 11.43 (2.91) <.01 | 11.38 (2.87) <.01 | 11.05 (3.83) <.01 | 10.97 (3.36) <.01 |
| b | Var (Level) | 0.60 (0.16) <.01 | 0.54 (0.15) <.01 | 0.54 (0.16) <.01 | 0.53 (0.16) <.01 |
| b | Var (Slope) | 0.00 (0.00) .53 | 0.00 (0.00) .61 | 0.00 (0.00) .54 | 0.00 (0.00) .61 |
| b | Var (Residual) | 1.16 (0.11) <.01 | 1.16 (0.11) <.01 | 1.17 (0.11) <.01 | 1.16 (0.11) <.01 |
| a | Covar (Level, Slope) | 3.13 (3.67) .39 | 3.15 (3.65) .39 | 3.49 (6.04) .56 | 3.47 (5.47) .53 |
| b | Covar (Level, Slope) | -0.01 (0.02) .48 | -0.02 (0.02) .42 | -0.02 (0.02) .38 | -0.02 (0.02) .46 |
|  | Correlation of Levels | -0.321 | -0.287 | -0.300 | -0.305 |
|  | Correlation of Slopes | 0.193 | 0.233 | 0.218 | 0.267 |
|  | Correlation of Residuals | 0.033 | 0.034 | 0.032 | 0.031 |
|  | N | 299 | 297 | 276 | 276 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,025 | -4,006 | -3,901 | -3,894 |
|  | AIC | 8,093 | 8,062 | 7,860 | 7,870 |
|  | BIC | 8,170 | 8,154 | 7,965 | 8,019 |

## digit\_f

Gender = *female*; Process (a) = *gait*; Process (b) = *digit\_f*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -0.46 (0.35) .18 | -0.25 (0.31) .42 | -0.25 (0.29) .40 | -0.28 (0.22) .22 |
| ab | Covar (Slopes) | -0.01 (0.01) .52 | -0.01 (0.01) .50 | -0.01 (0.01) .46 | -0.01 (0.01) .29 |
| ab | Covar (Residuals) | -0.10 (0.15) .52 | -0.09 (0.14) .52 | -0.10 (0.14) .49 | -0.10 (0.10) .28 |
| er | Corr (Levels) | -0.15 (0.11) .17 | -0.09 (0.11) .42 | -0.10 (0.11) .40 | -0.11 (0.08) .20 |
| er | Corr (Slopes) | -0.12 (0.15) .41 | -0.13 (0.15) .36 | -0.14 (0.14) .34 | -0.12 (0.18) .51 |
| er | Corr (Residuals) | -0.04 (0.05) .50 | -0.04 (0.05) .50 | -0.04 (0.05) .47 | -0.04 (0.04) .31 |
| a | Level | 10.67 (0.41) <.01 | 10.70 (0.42) <.01 | 10.66 (0.41) <.01 | 10.30 (0.47) <.01 |
| a | Slope | 5.60 (0.11) <.01 | 5.58 (0.11) <.01 | 5.66 (0.11) <.01 | 5.67 (0.13) <.01 |
| a | Level \* age | 0.38 (0.09) <.01 | 0.38 (0.09) <.01 | 0.34 (0.09) <.01 | 0.31 (0.09) <.01 |
| a | Level \* education | --- | -0.33 (0.11) <.01 | -0.34 (0.11) <.01 | -0.31 (0.13) .02 |
| a | Level \* height | --- | --- | -4.40 (6.25) .48 | -4.32 (5.59) .44 |
| a | Level \* smoking | --- | --- | --- | 0.03 (0.77) .97 |
| a | Level \* cardio | --- | --- | --- | 0.73 (0.51) .15 |
| a | Level \* diabetes | --- | --- | --- | 1.61 (1.47) .28 |
| a | Slope \* age | -0.00 (0.06) .98 | -0.00 (0.06) .98 | 0.00 (0.05) .94 | -0.01 (0.05) .91 |
| a | Slope \* education | --- | -0.01 (0.03) .64 | -0.01 (0.03) .61 | -0.03 (0.06) .67 |
| a | Slope \* height | --- | --- | 0.69 (2.03) .73 | 0.83 (2.71) .76 |
| a | Slope \* smoking | --- | --- | --- | 0.05 (0.20) .79 |
| a | Slope \* cardio | --- | --- | --- | -0.21 (0.25) .40 |
| a | Slope \* diabetes | --- | --- | --- | 1.03 (1.07) .34 |
| b | Level | 0.43 (0.17) .01 | 0.44 (0.18) .01 | 0.48 (0.18) .01 | 0.53 (0.42) .20 |
| b | Slope | -0.06 (0.02) <.01 | -0.06 (0.02) <.01 | -0.07 (0.02) <.01 | -0.08 (0.02) <.01 |
| b | Level \* age | -0.07 (0.02) <.01 | -0.06 (0.02) <.01 | -0.08 (0.02) <.01 | -0.08 (0.02) <.01 |
| b | Level \* education | --- | 0.13 (0.03) <.01 | 0.13 (0.03) <.01 | 0.14 (0.03) <.01 |
| b | Level \* height | --- | --- | 0.74 (1.05) .48 | 0.77 (1.06) .47 |
| b | Level \* smoking | --- | --- | --- | -0.15 (0.15) .32 |
| b | Level \* cardio | --- | --- | --- | 0.05 (0.13) .71 |
| b | Level \* diabetes | --- | --- | --- | 0.09 (0.27) .74 |
| b | Slope \* age | 0.00 (0.00) .63 | 0.00 (0.00) .68 | 0.00 (0.00) .54 | 0.00 (0.00) .44 |
| b | Slope \* education | --- | -0.01 (0.00) .04 | -0.01 (0.00) .07 | -0.01 (0.00) .02 |
| b | Slope \* height | --- | --- | -0.18 (0.19) .34 | -0.18 (0.19) .33 |
| b | Slope \* smoking | --- | --- | --- | 0.04 (0.03) .12 |
| b | Slope \* cardio | --- | --- | --- | -0.00 (0.02) .88 |
| b | Slope \* diabetes | --- | --- | --- | -0.00 (0.05) .92 |
| a | Var (Level) | 13.12 (4.13) <.01 | 12.62 (3.98) <.01 | 12.35 (3.97) <.01 | 11.98 (2.28) <.01 |
| a | Var (Slope) | 0.74 (2.19) .74 | 0.76 (2.21) .73 | 0.99 (2.37) .68 | 1.02 (3.10) .74 |
| a | Var (Residual) | 11.72 (3.00) <.01 | 11.67 (2.98) <.01 | 11.36 (2.69) <.01 | 11.22 (3.33) <.01 |
| b | Var (Level) | 0.72 (0.10) <.01 | 0.60 (0.08) <.01 | 0.55 (0.07) <.01 | 0.55 (0.07) <.01 |
| b | Var (Slope) | 0.01 (0.00) .02 | 0.01 (0.00) .02 | 0.01 (0.00) .05 | 0.01 (0.00) .06 |
| b | Var (Residual) | 0.62 (0.05) <.01 | 0.60 (0.04) <.01 | 0.61 (0.05) <.01 | 0.61 (0.05) <.01 |
| a | Covar (Level, Slope) | 2.90 (3.73) .44 | 2.92 (3.71) .43 | 3.26 (3.75) .38 | 3.28 (5.19) .53 |
| b | Covar (Level, Slope) | -0.05 (0.02) <.01 | -0.04 (0.01) <.01 | -0.04 (0.01) .01 | -0.04 (0.01) .01 |
|  | Correlation of Levels | -0.150 | -0.091 | -0.095 | -0.11 |
|  | Correlation of Slopes | -0.125 | -0.137 | -0.130 | -0.11 |
|  | Correlation of Residuals | -0.036 | -0.035 | -0.037 | -0.04 |
|  | N | 300 | 297 | 276 | 276 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -3,792 | -3,758 | -3,654 | -3,648 |
|  | AIC | 7,626 | 7,566 | 7,367 | 7,379 |
|  | BIC | 7,704 | 7,659 | 7,472 | 7,527 |

## fig\_logic

Gender = *female*; Process (a) = *gait*; Process (b) = *fig\_logic*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -5.61 (3.02) .06 | -4.80 (2.64) .07 | -4.43 (2.50) .08 | -4.35 (2.81) .12 |
| ab | Covar (Slopes) | 0.03 (0.16) .84 | 0.03 (0.17) .86 | 0.05 (0.16) .77 | 0.03 (0.16) .83 |
| ab | Covar (Residuals) | -0.69 (0.83) .40 | -0.68 (0.82) .40 | -0.68 (0.82) .40 | -0.66 (0.65) .31 |
| er | Corr (Levels) | -0.49 (0.18) .01 | -0.44 (0.18) .01 | -0.42 (0.18) .02 | -0.43 (0.21) .04 |
| er | Corr (Slopes) | 0.14 (0.85) .87 | 0.12 (0.81) .88 | 0.16 (0.68) .81 | 0.12 (0.45) .79 |
| er | Corr (Residuals) | -0.07 (0.08) .40 | -0.07 (0.08) .40 | -0.07 (0.08) .41 | -0.07 (0.07) .33 |
| a | Level | 10.72 (0.40) <.01 | 10.74 (0.41) <.01 | 10.64 (0.41) <.01 | 10.28 (0.47) <.01 |
| a | Slope | 16.52 (0.40) <.01 | 16.48 (0.40) <.01 | 16.61 (0.41) <.01 | 17.05 (0.50) <.01 |
| a | Level \* age | 0.38 (0.09) <.01 | 0.38 (0.09) <.01 | 0.35 (0.09) <.01 | 0.32 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.34 (0.11) <.01 | -0.32 (0.13) .02 |
| a | Level \* height | --- | --- | -4.07 (6.43) .53 | -4.00 (5.61) .47 |
| a | Level \* smoking | --- | --- | --- | 0.03 (0.77) .97 |
| a | Level \* cardio | --- | --- | --- | 0.75 (0.52) .15 |
| a | Level \* diabetes | --- | --- | --- | 1.57 (1.44) .28 |
| a | Slope \* age | -0.00 (0.05) .99 | -0.00 (0.05) .98 | 0.01 (0.05) .88 | -0.00 (0.05) .96 |
| a | Slope \* education | --- | -0.01 (0.03) .65 | -0.01 (0.03) .65 | -0.02 (0.05) .66 |
| a | Slope \* height | --- | --- | 0.84 (2.10) .69 | 1.01 (2.69) .71 |
| a | Slope \* smoking | --- | --- | --- | 0.04 (0.18) .80 |
| a | Slope \* cardio | --- | --- | --- | -0.17 (0.20) .41 |
| a | Slope \* diabetes | --- | --- | --- | 1.01 (0.95) .28 |
| b | Level | 0.45 (0.20) .03 | 0.46 (0.20) .02 | 0.48 (0.18) .01 | 0.52 (0.35) .14 |
| b | Slope | -0.08 (0.07) .28 | -0.07 (0.07) .32 | -0.06 (0.08) .45 | -0.11 (0.09) .20 |
| b | Level \* age | -0.27 (0.09) <.01 | -0.26 (0.09) .01 | -0.27 (0.10) <.01 | -0.29 (0.10) <.01 |
| b | Level \* education | --- | 0.24 (0.12) .04 | 0.23 (0.12) .05 | 0.29 (0.14) .03 |
| b | Level \* height | --- | --- | -1.56 (4.57) .73 | -1.87 (4.63) .69 |
| b | Level \* smoking | --- | --- | --- | -1.09 (0.65) .09 |
| b | Level \* cardio | --- | --- | --- | -0.45 (0.51) .38 |
| b | Level \* diabetes | --- | --- | --- | 0.67 (1.01) .50 |
| b | Slope \* age | -0.00 (0.02) .87 | -0.00 (0.02) .83 | -0.00 (0.02) .87 | -0.00 (0.02) .92 |
| b | Slope \* education | --- | -0.02 (0.03) .55 | -0.02 (0.03) .50 | -0.03 (0.03) .36 |
| b | Slope \* height | --- | --- | 0.56 (0.88) .52 | 0.60 (0.85) .48 |
| b | Slope \* smoking | --- | --- | --- | 0.13 (0.12) .29 |
| b | Slope \* cardio | --- | --- | --- | 0.06 (0.11) .57 |
| b | Slope \* diabetes | --- | --- | --- | -0.09 (0.18) .61 |
| a | Var (Level) | 13.17 (4.34) <.01 | 12.59 (4.11) <.01 | 12.31 (4.09) <.01 | 11.94 (2.51) <.01 |
| a | Var (Slope) | 0.68 (1.89) .72 | 0.74 (2.00) .71 | 0.92 (2.19) .67 | 0.94 (2.49) .71 |
| a | Var (Residual) | 11.91 (3.14) <.01 | 11.76 (3.06) <.01 | 11.51 (2.78) <.01 | 11.39 (2.98) <.01 |
| b | Var (Level) | 10.02 (1.93) <.01 | 9.26 (1.68) <.01 | 8.82 (1.61) <.01 | 8.49 (2.26) <.01 |
| b | Var (Slope) | 0.08 (0.04) .06 | 0.08 (0.04) .06 | 0.09 (0.05) .05 | 0.09 (0.04) .06 |
| b | Var (Residual) | 7.97 (0.60) <.01 | 7.92 (0.60) <.01 | 8.00 (0.60) <.01 | 8.00 (0.60) <.01 |
| a | Covar (Level, Slope) | 2.86 (3.56) .42 | 2.91 (3.55) .41 | 3.20 (3.66) .38 | 3.20 (4.60) .49 |
| b | Covar (Level, Slope) | -0.37 (0.28) .19 | -0.35 (0.26) .17 | -0.38 (0.25) .13 | -0.34 (0.25) .18 |
|  | Correlation of Levels | -0.488 | -0.44 | -0.425 | -0.432 |
|  | Correlation of Slopes | 0.135 | 0.12 | 0.160 | 0.120 |
|  | Correlation of Residuals | -0.071 | -0.07 | -0.071 | -0.069 |
|  | N | 286 | 285 | 270 | 270 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,453 | -4,442 | -4,334 | -4,328 |
|  | AIC | 8,947 | 8,934 | 8,727 | 8,737 |
|  | BIC | 9,024 | 9,026 | 8,831 | 8,885 |

## information

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -5.83 (4.97) .24 | -2.87 (4.58) .53 | -2.84 (2.87) .32 | -3.15 (2.80) .26 |
| ab | Covar (Slopes) | 0.04 (0.09) .62 | 0.04 (0.10) .64 | 0.05 (0.08) .57 | 0.02 (0.04) .61 |
| ab | Covar (Residuals) | -0.70 (0.75) .35 | -0.70 (0.76) .35 | -0.71 (0.52) .17 | -0.72 (0.51) .15 |
| er | Corr (Levels) | -0.16 (0.15) .28 | -0.09 (0.15) .55 | -0.09 (0.09) .31 | -0.10 (0.09) .25 |
| er | Corr (Slopes) | 0.08 (0.11) .43 | 0.08 (0.11) .45 | 0.08 (0.07) .28 | 0.04 (0.08) .61 |
| er | Corr (Residuals) | -0.05 (0.05) .33 | -0.05 (0.05) .33 | -0.05 (0.04) .20 | -0.05 (0.04) .17 |
| a | Level | 10.65 (0.41) <.01 | 10.70 (0.42) <.01 | 10.66 (0.41) <.01 | 10.30 (0.46) <.01 |
| a | Slope | 30.84 (1.08) <.01 | 30.32 (0.92) <.01 | 30.46 (1.01) <.01 | 29.64 (1.17) <.01 |
| a | Level \* age | 0.39 (0.09) <.01 | 0.38 (0.09) <.01 | 0.34 (0.09) <.01 | 0.31 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.34 (0.11) <.01 | -0.32 (0.13) .02 |
| a | Level \* height | --- | --- | -4.47 (5.71) .43 | -4.40 (5.61) .43 |
| a | Level \* smoking | --- | --- | --- | 0.04 (0.77) .96 |
| a | Level \* cardio | --- | --- | --- | 0.74 (0.51) .15 |
| a | Level \* diabetes | --- | --- | --- | 1.64 (1.43) .25 |
| a | Slope \* age | -0.01 (0.05) .89 | -0.01 (0.05) .89 | -0.00 (0.05) .97 | -0.01 (0.05) .86 |
| a | Slope \* education | --- | -0.01 (0.03) .79 | -0.01 (0.04) .83 | -0.02 (0.06) .70 |
| a | Slope \* height | --- | --- | 0.54 (2.57) .83 | 0.73 (2.48) .77 |
| a | Slope \* smoking | --- | --- | --- | 0.04 (0.19) .83 |
| a | Slope \* cardio | --- | --- | --- | -0.21 (0.24) .39 |
| a | Slope \* diabetes | --- | --- | --- | 0.95 (0.97) .32 |
| b | Level | 0.43 (0.19) .02 | 0.43 (0.19) .02 | 0.47 (0.38) .22 | 0.53 (0.39) .18 |
| b | Slope | -0.32 (0.09) <.01 | -0.32 (0.09) <.01 | -0.31 (0.11) <.01 | -0.12 (0.14) .40 |
| b | Level \* age | -0.86 (0.23) <.01 | -0.74 (0.19) <.01 | -0.68 (0.23) <.01 | -0.66 (0.24) <.01 |
| b | Level \* education | --- | 2.23 (0.24) <.01 | 2.14 (0.24) <.01 | 2.14 (0.26) <.01 |
| b | Level \* height | --- | --- | 1.16 (12.92) .93 | 0.74 (12.91) .95 |
| b | Level \* smoking | --- | --- | --- | 0.87 (1.32) .51 |
| b | Level \* cardio | --- | --- | --- | 1.38 (1.15) .23 |
| b | Level \* diabetes | --- | --- | --- | -0.72 (2.67) .79 |
| b | Slope \* age | -0.04 (0.03) .21 | -0.04 (0.03) .20 | -0.03 (0.03) .27 | -0.04 (0.03) .25 |
| b | Slope \* education | --- | -0.01 (0.03) .85 | -0.02 (0.04) .61 | -0.04 (0.04) .34 |
| b | Slope \* height | --- | --- | 1.45 (1.47) .32 | 1.67 (1.42) .24 |
| b | Slope \* smoking | --- | --- | --- | -0.05 (0.19) .81 |
| b | Slope \* cardio | --- | --- | --- | -0.46 (0.16) <.01 |
| b | Slope \* diabetes | --- | --- | --- | 0.46 (0.41) .26 |
| a | Var (Level) | 12.96 (4.02) <.01 | 12.51 (3.94) <.01 | 12.28 (2.44) <.01 | 11.86 (2.29) <.01 |
| a | Var (Slope) | 0.80 (2.23) .72 | 0.81 (2.23) .72 | 1.00 (3.10) .74 | 1.07 (3.01) .72 |
| a | Var (Residual) | 11.62 (2.88) <.01 | 11.61 (2.91) <.01 | 11.37 (3.22) <.01 | 11.17 (3.02) <.01 |
| b | Var (Level) | 103.11 (9.57) <.01 | 79.87 (8.14) <.01 | 77.33 (8.64) <.01 | 76.75 (8.56) <.01 |
| b | Var (Slope) | 0.36 (0.10) <.01 | 0.36 (0.09) <.01 | 0.34 (0.10) <.01 | 0.30 (0.09) <.01 |
| b | Var (Residual) | 16.10 (1.36) <.01 | 16.11 (1.37) <.01 | 16.48 (1.41) <.01 | 16.45 (1.42) <.01 |
| a | Covar (Level, Slope) | 3.00 (3.84) .43 | 3.00 (3.80) .43 | 3.30 (5.36) .54 | 3.34 (5.03) .51 |
| b | Covar (Level, Slope) | 0.50 (0.77) .52 | 0.56 (0.65) .39 | 0.72 (0.67) .28 | 0.88 (0.66) .18 |
|  | Correlation of Levels | -0.159 | -0.091 | -0.092 | -0.104 |
|  | Correlation of Slopes | 0.084 | 0.084 | 0.080 | 0.039 |
|  | Correlation of Residuals | -0.051 | -0.051 | -0.052 | -0.053 |
|  | N | 301 | 299 | 275 | 275 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -5,522 | -5,480 | -5,287 | -5,277 |
|  | AIC | 11,087 | 11,009 | 10,632 | 10,636 |
|  | BIC | 11,165 | 11,102 | 10,737 | 10,784 |

## mir

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -1.45 (0.78) .06 | -1.29 (0.68) .06 | -1.08 (0.57) .06 | -1.11 (0.47) .02 |
| ab | Covar (Slopes) | 0.01 (0.07) .94 | 0.01 (0.07) .91 | 0.01 (0.07) .93 | 0.00 (0.05) .97 |
| ab | Covar (Residuals) | -0.59 (0.40) .13 | -0.59 (0.39) .13 | -0.58 (0.37) .11 | -0.55 (0.23) .02 |
| er | Corr (Levels) | -0.22 (0.10) .03 | -0.21 (0.10) .03 | -0.20 (0.09) .04 | -0.21 (0.08) .01 |
| er | Corr (Slopes) | 0.02 (0.26) .93 | 0.03 (0.24) .90 | 0.02 (0.21) .92 | 0.01 (0.16) .97 |
| er | Corr (Residuals) | -0.13 (0.07) .08 | -0.13 (0.07) .07 | -0.13 (0.07) .07 | -0.12 (0.05) .03 |
| a | Level | 10.70 (0.41) <.01 | 10.73 (0.41) <.01 | 10.62 (0.41) <.01 | 10.29 (0.47) <.01 |
| a | Slope | 7.63 (0.20) <.01 | 7.61 (0.20) <.01 | 7.79 (0.19) <.01 | 7.73 (0.24) <.01 |
| a | Level \* age | 0.39 (0.09) <.01 | 0.39 (0.09) <.01 | 0.35 (0.09) <.01 | 0.33 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.35 (0.11) <.01 | -0.32 (0.13) .02 |
| a | Level \* height | --- | --- | -4.43 (6.34) .48 | -4.38 (5.59) .43 |
| a | Level \* smoking | --- | --- | --- | -0.02 (0.76) .98 |
| a | Level \* cardio | --- | --- | --- | 0.70 (0.51) .17 |
| a | Level \* diabetes | --- | --- | --- | 1.64 (1.43) .25 |
| a | Slope \* age | -0.01 (0.05) .87 | -0.01 (0.05) .88 | -0.00 (0.05) .97 | -0.01 (0.04) .82 |
| a | Slope \* education | --- | -0.01 (0.03) .65 | -0.01 (0.03) .61 | -0.02 (0.05) .64 |
| a | Slope \* height | --- | --- | 0.89 (1.88) .64 | 1.04 (2.47) .67 |
| a | Slope \* smoking | --- | --- | --- | 0.03 (0.17) .88 |
| a | Slope \* cardio | --- | --- | --- | -0.19 (0.23) .41 |
| a | Slope \* diabetes | --- | --- | --- | 0.95 (0.92) .30 |
| b | Level | 0.42 (0.17) .01 | 0.43 (0.18) .01 | 0.48 (0.18) .01 | 0.54 (0.37) .15 |
| b | Slope | -0.05 (0.05) .27 | -0.05 (0.05) .32 | -0.05 (0.05) .31 | -0.01 (0.06) .90 |
| b | Level \* age | -0.16 (0.05) <.01 | -0.13 (0.05) <.01 | -0.16 (0.05) <.01 | -0.16 (0.05) <.01 |
| b | Level \* education | --- | 0.02 (0.07) .76 | 0.03 (0.07) .67 | 0.03 (0.07) .68 |
| b | Level \* height | --- | --- | -1.52 (2.07) .46 | -1.49 (2.05) .47 |
| b | Level \* smoking | --- | --- | --- | 0.08 (0.31) .80 |
| b | Level \* cardio | --- | --- | --- | 0.07 (0.25) .77 |
| b | Level \* diabetes | --- | --- | --- | 0.22 (0.45) .62 |
| b | Slope \* age | -0.02 (0.01) .15 | -0.02 (0.01) .14 | -0.02 (0.01) .22 | -0.02 (0.01) .19 |
| b | Slope \* education | --- | -0.00 (0.02) .81 | -0.01 (0.02) .77 | -0.00 (0.02) .86 |
| b | Slope \* height | --- | --- | 0.45 (0.56) .43 | 0.46 (0.56) .42 |
| b | Slope \* smoking | --- | --- | --- | -0.06 (0.09) .46 |
| b | Slope \* cardio | --- | --- | --- | -0.06 (0.07) .35 |
| b | Slope \* diabetes | --- | --- | --- | 0.07 (0.14) .60 |
| a | Var (Level) | 13.19 (4.19) <.01 | 12.59 (4.02) <.01 | 12.25 (4.05) <.01 | 11.87 (2.56) <.01 |
| a | Var (Slope) | 0.71 (2.15) .74 | 0.78 (2.21) .72 | 0.98 (2.36) .68 | 1.02 (2.61) .69 |
| a | Var (Residual) | 11.84 (3.31) <.01 | 11.69 (3.20) <.01 | 11.43 (2.87) <.01 | 11.27 (2.89) <.01 |
| b | Var (Level) | 3.19 (0.54) <.01 | 2.91 (0.50) <.01 | 2.45 (0.48) <.01 | 2.43 (0.48) <.01 |
| b | Var (Slope) | 0.09 (0.02) <.01 | 0.09 (0.02) <.01 | 0.09 (0.02) <.01 | 0.09 (0.02) <.01 |
| b | Var (Residual) | 1.88 (0.17) <.01 | 1.87 (0.16) <.01 | 1.84 (0.17) <.01 | 1.85 (0.17) <.01 |
| a | Covar (Level, Slope) | 2.85 (3.64) .43 | 2.94 (3.62) .42 | 3.28 (3.72) .38 | 3.29 (4.65) .48 |
| b | Covar (Level, Slope) | -0.04 (0.08) .66 | -0.05 (0.07) .48 | -0.02 (0.07) .77 | -0.01 (0.07) .90 |
|  | Correlation of Levels | -0.223 | -0.21 | -0.20 | -0.2072 |
|  | Correlation of Slopes | 0.023 | 0.03 | 0.02 | 0.0067 |
|  | Correlation of Residuals | -0.126 | -0.13 | -0.13 | -0.1198 |
|  | N | 295 | 291 | 272 | 272 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,285 | -4,258 | -4,136 | -4,131 |
|  | AIC | 8,612 | 8,566 | 8,331 | 8,344 |
|  | BIC | 8,690 | 8,658 | 8,435 | 8,492 |

## mir\_recog

Gender = *female*; Process (a) = *gait*; Process (b) = *mir\_recog*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -0.61 (1.11) .58 | -0.15 (0.19) .41 | --- | --- |
| ab | Covar (Slopes) | -0.01 (0.12) .94 | 0.00 (0.01) .96 | --- | --- |
| ab | Covar (Residuals) | -0.05 (0.15) .74 | -0.05 (0.11) .65 | --- | --- |
| er | Corr (Levels) | -0.15 (0.23) .51 | -0.06 (0.08) .44 | --- | --- |
| er | Corr (Slopes) | -0.12 (1.43) .93 | 0.01 (0.18) .95 | --- | --- |
| er | Corr (Residuals) | -0.02 (0.07) .75 | -0.02 (0.05) .65 | --- | --- |
| a | Level | 10.65 (0.40) <.01 | 10.68 (0.41) <.01 | --- | --- |
| a | Slope | 9.89 (0.10) <.01 | 9.86 (0.08) <.01 | --- | --- |
| a | Level \* age | 0.40 (0.09) <.01 | 0.39 (0.09) <.01 | --- | --- |
| a | Level \* education | --- | -0.33 (0.11) <.01 | --- | --- |
| a | Level \* height | --- | --- | --- | --- |
| a | Level \* smoking | --- | --- | --- | --- |
| a | Level \* cardio | --- | --- | --- | --- |
| a | Level \* diabetes | --- | --- | --- | --- |
| a | Slope \* age | -0.00 (0.05) .97 | -0.01 (0.06) .92 | --- | --- |
| a | Slope \* education | --- | -0.01 (0.03) .64 | --- | --- |
| a | Slope \* height | --- | --- | --- | --- |
| a | Slope \* smoking | --- | --- | --- | --- |
| a | Slope \* cardio | --- | --- | --- | --- |
| a | Slope \* diabetes | --- | --- | --- | --- |
| b | Level | 0.43 (0.17) .01 | 0.44 (0.19) .02 | --- | --- |
| b | Slope | 0.01 (0.04) .87 | 0.01 (0.02) .69 | --- | --- |
| b | Level \* age | -0.06 (0.04) .07 | -0.03 (0.02) .22 | --- | --- |
| b | Level \* education | --- | 0.04 (0.02) .02 | --- | --- |
| b | Level \* height | --- | --- | --- | --- |
| b | Level \* smoking | --- | --- | --- | --- |
| b | Level \* cardio | --- | --- | --- | --- |
| b | Level \* diabetes | --- | --- | --- | --- |
| b | Slope \* age | -0.01 (0.02) .46 | -0.01 (0.01) .10 | --- | --- |
| b | Slope \* education | --- | 0.00 (0.00) .54 | --- | --- |
| b | Slope \* height | --- | --- | --- | --- |
| b | Slope \* smoking | --- | --- | --- | --- |
| b | Slope \* cardio | --- | --- | --- | --- |
| b | Slope \* diabetes | --- | --- | --- | --- |
| a | Var (Level) | 13.35 (4.63) <.01 | 12.70 (4.13) <.01 | --- | --- |
| a | Var (Slope) | 0.62 (2.01) .76 | 0.66 (2.13) .76 | --- | --- |
| a | Var (Residual) | 12.05 (2.96) <.01 | 11.92 (3.06) <.01 | --- | --- |
| b | Var (Level) | 1.24 (1.64) .45 | 0.45 (0.32) .16 | --- | --- |
| b | Var (Slope) | 0.01 (0.03) .71 | 0.00 (0.01) .68 | --- | --- |
| b | Var (Residual) | 0.38 (0.19) .04 | 0.37 (0.13) <.01 | --- | --- |
| a | Covar (Level, Slope) | 2.80 (3.76) .46 | 2.82 (3.82) .46 | --- | --- |
| b | Covar (Level, Slope) | 0.11 (0.52) .83 | 0.05 (0.11) .68 | --- | --- |
|  | Correlation of Levels | -0.151 | -0.064 | NaN | NaN |
|  | Correlation of Slopes | -0.121 | 0.017 | NaN | NaN |
|  | Correlation of Residuals | -0.024 | -0.024 | NaN | NaN |
|  | N | 296 | 292 | NA | NA |
|  | occasions | 5 | 5 | NA | NA |
|  | parameters | 21 | 25 | NA | NA |
|  | LL | -3,631 | -3,499 | NA | NA |
|  | AIC | 7,303 | 7,047 | NA | NA |
|  | BIC | 7,381 | 7,139 | NA | NA |

## mmse

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.70 (3.27) .15 | -2.05 (1.27) .11 | -1.41 (0.89) .12 | -1.33 (0.59) .02 |
| ab | Covar (Slopes) | -0.02 (0.18) .90 | -0.02 (0.15) .88 | -0.02 (0.14) .85 | -0.04 (0.09) .66 |
| ab | Covar (Residuals) | -0.04 (0.65) .95 | -0.03 (0.63) .96 | -0.10 (0.59) .86 | -0.06 (0.53) .91 |
| er | Corr (Levels) | -0.40 (0.21) .06 | -0.30 (0.16) .06 | -0.27 (0.15) .08 | -0.27 (0.11) .01 |
| er | Corr (Slopes) | -0.05 (0.45) .91 | -0.04 (0.35) .90 | -0.04 (0.29) .88 | -0.07 (0.23) .77 |
| er | Corr (Residuals) | -0.00 (0.08) .95 | -0.00 (0.08) .96 | -0.01 (0.08) .86 | -0.01 (0.07) .91 |
| a | Level | 10.80 (0.44) <.01 | 10.74 (0.42) <.01 | 10.67 (0.41) <.01 | 10.27 (0.47) <.01 |
| a | Slope | 28.42 (0.31) <.01 | 28.63 (0.23) <.01 | 28.85 (0.21) <.01 | 29.14 (0.26) <.01 |
| a | Level \* age | 0.42 (0.09) <.01 | 0.41 (0.09) <.01 | 0.35 (0.09) <.01 | 0.33 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.33 (0.11) <.01 | -0.30 (0.13) .02 |
| a | Level \* height | --- | --- | -4.27 (6.12) .49 | -4.11 (5.53) .46 |
| a | Level \* smoking | --- | --- | --- | 0.09 (0.78) .91 |
| a | Level \* cardio | --- | --- | --- | 0.79 (0.52) .13 |
| a | Level \* diabetes | --- | --- | --- | 1.55 (1.46) .29 |
| a | Slope \* age | -0.00 (0.04) .95 | -0.00 (0.04) .95 | 0.00 (0.04) .97 | -0.01 (0.04) .88 |
| a | Slope \* education | --- | -0.01 (0.03) .63 | -0.01 (0.03) .68 | -0.02 (0.06) .66 |
| a | Slope \* height | --- | --- | 0.70 (1.81) .70 | 0.85 (2.37) .72 |
| a | Slope \* smoking | --- | --- | --- | 0.06 (0.19) .74 |
| a | Slope \* cardio | --- | --- | --- | -0.18 (0.23) .42 |
| a | Slope \* diabetes | --- | --- | --- | 1.02 (0.98) .30 |
| b | Level | 0.45 (0.16) <.01 | 0.45 (0.18) .01 | 0.48 (0.18) .01 | 0.53 (0.39) .18 |
| b | Slope | -0.23 (0.07) <.01 | -0.23 (0.07) <.01 | -0.28 (0.07) <.01 | -0.22 (0.09) .01 |
| b | Level \* age | -0.31 (0.06) <.01 | -0.28 (0.05) <.01 | -0.24 (0.05) <.01 | -0.24 (0.05) <.01 |
| b | Level \* education | --- | 0.28 (0.06) <.01 | 0.25 (0.06) <.01 | 0.27 (0.06) <.01 |
| b | Level \* height | --- | --- | 1.29 (2.64) .63 | 1.31 (2.62) .62 |
| b | Level \* smoking | --- | --- | --- | -0.52 (0.36) .15 |
| b | Level \* cardio | --- | --- | --- | -0.31 (0.29) .28 |
| b | Level \* diabetes | --- | --- | --- | -0.36 (0.66) .58 |
| b | Slope \* age | -0.06 (0.02) <.01 | -0.06 (0.02) .01 | -0.05 (0.02) .01 | -0.05 (0.02) .01 |
| b | Slope \* education | --- | 0.02 (0.02) .42 | 0.01 (0.03) .69 | 0.02 (0.03) .52 |
| b | Slope \* height | --- | --- | -0.56 (0.91) .54 | -0.52 (0.91) .57 |
| b | Slope \* smoking | --- | --- | --- | -0.14 (0.15) .35 |
| b | Slope \* cardio | --- | --- | --- | -0.04 (0.12) .75 |
| b | Slope \* diabetes | --- | --- | --- | -0.04 (0.20) .83 |
| a | Var (Level) | 14.21 (5.10) <.01 | 12.82 (4.00) <.01 | 12.38 (3.91) <.01 | 11.98 (2.33) <.01 |
| a | Var (Slope) | 0.73 (2.19) .74 | 0.76 (2.19) .73 | 0.95 (2.34) .68 | 0.99 (2.89) .73 |
| a | Var (Residual) | 11.77 (2.97) <.01 | 11.70 (3.12) <.01 | 11.47 (2.84) <.01 | 11.32 (3.15) <.01 |
| b | Var (Level) | 9.58 (3.21) <.01 | 3.54 (0.81) <.01 | 2.14 (0.58) <.01 | 2.08 (0.57) <.01 |
| b | Var (Slope) | 0.31 (0.08) <.01 | 0.33 (0.08) <.01 | 0.33 (0.08) <.01 | 0.33 (0.08) <.01 |
| b | Var (Residual) | 5.05 (0.74) <.01 | 4.85 (0.70) <.01 | 4.49 (0.68) <.01 | 4.49 (0.68) <.01 |
| a | Covar (Level, Slope) | 2.99 (3.46) .39 | 2.96 (3.63) .41 | 3.26 (3.73) .38 | 3.28 (5.08) .52 |
| b | Covar (Level, Slope) | 0.54 (0.34) .12 | 0.44 (0.22) .05 | 0.31 (0.18) .09 | 0.30 (0.18) .09 |
|  | Correlation of Levels | -0.4030 | -0.3041 | -0.273 | -0.267 |
|  | Correlation of Slopes | -0.0505 | -0.0436 | -0.045 | -0.067 |
|  | Correlation of Residuals | -0.0049 | -0.0042 | -0.015 | -0.008 |
|  | N | 311 | 305 | 276 | 276 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -5,131 | -4,999 | -4,764 | -4,757 |
|  | AIC | 10,303 | 10,048 | 9,586 | 9,596 |
|  | BIC | 10,382 | 10,141 | 9,691 | 9,745 |

## prose\_im

Gender = *female*; Process (a) = *gait*; Process (b) = *prose\_im*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -2.11 (1.29) .10 | -1.45 (1.21) .23 | -1.48 (1.04) .15 | -1.31 (1.09) .23 |
| ab | Covar (Slopes) | -0.06 (0.03) .08 | -0.06 (0.03) .07 | -0.06 (0.08) .47 | -0.08 (0.10) .44 |
| ab | Covar (Residuals) | -0.40 (0.53) .45 | -0.40 (0.52) .44 | -0.40 (0.25) .11 | -0.40 (0.26) .13 |
| er | Corr (Levels) | -0.19 (0.12) .13 | -0.14 (0.13) .26 | -0.15 (0.11) .17 | -0.14 (0.12) .25 |
| er | Corr (Slopes) | -0.18 (0.24) .47 | -0.19 (0.26) .47 | -0.19 (0.07) .01 | -0.23 (0.08) <.01 |
| er | Corr (Residuals) | -0.06 (0.07) .41 | -0.06 (0.07) .40 | -0.06 (0.04) .12 | -0.06 (0.04) .13 |
| a | Level | 10.68 (0.41) <.01 | 10.72 (0.41) <.01 | 10.67 (0.41) <.01 | 10.32 (0.48) <.01 |
| a | Slope | 11.11 (0.35) <.01 | 11.00 (0.32) <.01 | 11.28 (0.34) <.01 | 11.16 (0.41) <.01 |
| a | Level \* age | 0.38 (0.09) <.01 | 0.38 (0.09) <.01 | 0.33 (0.09) <.01 | 0.31 (0.09) <.01 |
| a | Level \* education | --- | -0.33 (0.11) <.01 | -0.34 (0.11) <.01 | -0.32 (0.13) .02 |
| a | Level \* height | --- | --- | -4.68 (5.73) .41 | -4.57 (5.65) .42 |
| a | Level \* smoking | --- | --- | --- | 0.04 (0.78) .96 |
| a | Level \* cardio | --- | --- | --- | 0.72 (0.52) .16 |
| a | Level \* diabetes | --- | --- | --- | 1.63 (1.38) .24 |
| a | Slope \* age | -0.00 (0.05) .95 | -0.00 (0.05) .96 | 0.00 (0.05) .95 | -0.01 (0.04) .85 |
| a | Slope \* education | --- | -0.01 (0.03) .61 | -0.02 (0.04) .70 | -0.03 (0.05) .57 |
| a | Slope \* height | --- | --- | 1.02 (2.64) .70 | 1.25 (2.56) .62 |
| a | Slope \* smoking | --- | --- | --- | 0.04 (0.17) .84 |
| a | Slope \* cardio | --- | --- | --- | -0.20 (0.24) .39 |
| a | Slope \* diabetes | --- | --- | --- | 1.12 (1.01) .27 |
| b | Level | 0.44 (0.15) <.01 | 0.44 (0.15) <.01 | 0.50 (0.33) .13 | 0.56 (0.37) .12 |
| b | Slope | -0.11 (0.06) .06 | -0.10 (0.05) .08 | -0.09 (0.05) .09 | -0.04 (0.07) .52 |
| b | Level \* age | -0.26 (0.08) <.01 | -0.23 (0.07) <.01 | -0.28 (0.08) <.01 | -0.25 (0.09) <.01 |
| b | Level \* education | --- | 0.47 (0.10) <.01 | 0.47 (0.11) <.01 | 0.46 (0.11) <.01 |
| b | Level \* height | --- | --- | 1.30 (3.88) .74 | 1.25 (4.01) .76 |
| b | Level \* smoking | --- | --- | --- | 0.21 (0.50) .68 |
| b | Level \* cardio | --- | --- | --- | 0.25 (0.42) .55 |
| b | Level \* diabetes | --- | --- | --- | -1.76 (1.19) .14 |
| b | Slope \* age | 0.02 (0.01) .12 | 0.02 (0.01) .12 | 0.03 (0.02) .08 | 0.02 (0.02) .13 |
| b | Slope \* education | --- | -0.05 (0.02) .03 | -0.05 (0.02) .01 | -0.05 (0.02) .02 |
| b | Slope \* height | --- | --- | 0.56 (0.75) .46 | 0.60 (0.78) .44 |
| b | Slope \* smoking | --- | --- | --- | -0.09 (0.10) .35 |
| b | Slope \* cardio | --- | --- | --- | -0.07 (0.09) .40 |
| b | Slope \* diabetes | --- | --- | --- | 0.10 (0.15) .52 |
| a | Var (Level) | 12.99 (3.83) <.01 | 12.54 (3.73) <.01 | 12.27 (2.71) <.01 | 11.87 (2.90) <.01 |
| a | Var (Slope) | 0.97 (2.33) .68 | 0.97 (2.33) .68 | 1.25 (2.93) .67 | 1.34 (2.79) .63 |
| a | Var (Residual) | 11.24 (3.05) <.01 | 11.23 (3.06) <.01 | 10.89 (2.98) <.01 | 10.66 (2.81) <.01 |
| b | Var (Level) | 9.76 (1.19) <.01 | 8.28 (1.01) <.01 | 8.04 (0.99) <.01 | 7.87 (0.94) <.01 |
| b | Var (Slope) | 0.11 (0.04) .01 | 0.10 (0.04) .01 | 0.09 (0.03) <.01 | 0.08 (0.03) <.01 |
| b | Var (Residual) | 4.33 (0.38) <.01 | 4.32 (0.38) <.01 | 4.29 (0.38) <.01 | 4.28 (0.38) <.01 |
| a | Covar (Level, Slope) | 3.11 (3.46) .37 | 3.10 (3.43) .37 | 3.46 (4.57) .45 | 3.47 (4.27) .42 |
| b | Covar (Level, Slope) | -0.52 (0.17) <.01 | -0.42 (0.15) .01 | -0.41 (0.13) <.01 | -0.40 (0.12) <.01 |
|  | Correlation of Levels | -0.188 | -0.142 | -0.149 | -0.136 |
|  | Correlation of Slopes | -0.177 | -0.189 | -0.186 | -0.227 |
|  | Correlation of Residuals | -0.057 | -0.058 | -0.059 | -0.058 |
|  | N | 290 | 287 | 269 | 269 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,479 | -4,449 | -4,314 | -4,306 |
|  | AIC | 9,001 | 8,948 | 8,686 | 8,694 |
|  | BIC | 9,078 | 9,039 | 8,790 | 8,842 |

## psif

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | --- | --- | --- | --- |
| ab | Covar (Slopes) | --- | --- | --- | --- |
| ab | Covar (Residuals) | --- | --- | --- | --- |
| er | Corr (Levels) | --- | --- | --- | --- |
| er | Corr (Slopes) | --- | --- | --- | --- |
| er | Corr (Residuals) | --- | --- | --- | --- |
| a | Level | --- | --- | --- | --- |
| a | Slope | --- | --- | --- | --- |
| a | Level \* age | --- | --- | --- | --- |
| a | Level \* education | --- | --- | --- | --- |
| a | Level \* height | --- | --- | --- | --- |
| a | Level \* smoking | --- | --- | --- | --- |
| a | Level \* cardio | --- | --- | --- | --- |
| a | Level \* diabetes | --- | --- | --- | --- |
| a | Slope \* age | --- | --- | --- | --- |
| a | Slope \* education | --- | --- | --- | --- |
| a | Slope \* height | --- | --- | --- | --- |
| a | Slope \* smoking | --- | --- | --- | --- |
| a | Slope \* cardio | --- | --- | --- | --- |
| a | Slope \* diabetes | --- | --- | --- | --- |
| b | Level | --- | --- | --- | --- |
| b | Slope | --- | --- | --- | --- |
| b | Level \* age | --- | --- | --- | --- |
| b | Level \* education | --- | --- | --- | --- |
| b | Level \* height | --- | --- | --- | --- |
| b | Level \* smoking | --- | --- | --- | --- |
| b | Level \* cardio | --- | --- | --- | --- |
| b | Level \* diabetes | --- | --- | --- | --- |
| b | Slope \* age | --- | --- | --- | --- |
| b | Slope \* education | --- | --- | --- | --- |
| b | Slope \* height | --- | --- | --- | --- |
| b | Slope \* smoking | --- | --- | --- | --- |
| b | Slope \* cardio | --- | --- | --- | --- |
| b | Slope \* diabetes | --- | --- | --- | --- |
| a | Var (Level) | --- | --- | --- | --- |
| a | Var (Slope) | --- | --- | --- | --- |
| a | Var (Residual) | --- | --- | --- | --- |
| b | Var (Level) | --- | --- | --- | --- |
| b | Var (Slope) | --- | --- | --- | --- |
| b | Var (Residual) | --- | --- | --- | --- |
| a | Covar (Level, Slope) | --- | --- | --- | --- |
| b | Covar (Level, Slope) | --- | --- | --- | --- |
|  | Correlation of Levels | NaN | NaN | NaN | NaN |
|  | Correlation of Slopes | NaN | NaN | NaN | NaN |
|  | Correlation of Residuals | NaN | NaN | NaN | NaN |
|  | N | NA | NA | NA | NA |
|  | occasions | NA | NA | NA | NA |
|  | parameters | NA | NA | NA | NA |
|  | LL | NA | NA | NA | NA |
|  | AIC | NA | NA | NA | NA |
|  | BIC | NA | NA | NA | NA |

## symbol

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -16.95 (8.40) .04 | -12.83 (6.83) .06 | -10.39 (5.89) .08 | -10.73 (5.36) .04 |
| ab | Covar (Slopes) | -0.19 (0.62) .76 | -0.18 (0.62) .78 | -0.27 (0.69) .69 | -0.27 (0.65) .68 |
| ab | Covar (Residuals) | -1.75 (1.30) .18 | -1.82 (1.35) .18 | -1.97 (1.41) .16 | -2.12 (1.52) .16 |
| er | Corr (Levels) | -0.48 (0.17) <.01 | -0.41 (0.16) .01 | -0.35 (0.15) .02 | -0.37 (0.14) .01 |
| er | Corr (Slopes) | -0.30 (0.51) .56 | -0.27 (0.53) .61 | -0.35 (0.42) .40 | -0.42 (0.44) .35 |
| er | Corr (Residuals) | -0.10 (0.07) .16 | -0.10 (0.07) .16 | -0.11 (0.07) .14 | -0.12 (0.08) .13 |
| a | Level | 10.71 (0.40) <.01 | 10.72 (0.41) <.01 | 10.63 (0.41) <.01 | 10.27 (0.51) <.01 |
| a | Slope | 28.36 (1.14) <.01 | 28.01 (1.05) <.01 | 28.53 (1.08) <.01 | 28.22 (1.27) <.01 |
| a | Level \* age | 0.39 (0.08) <.01 | 0.39 (0.09) <.01 | 0.35 (0.09) <.01 | 0.32 (0.09) <.01 |
| a | Level \* education | --- | -0.33 (0.11) <.01 | -0.34 (0.11) <.01 | -0.31 (0.13) .02 |
| a | Level \* height | --- | --- | -4.63 (6.22) .46 | -4.55 (6.09) .46 |
| a | Level \* smoking | --- | --- | --- | 0.02 (0.79) .98 |
| a | Level \* cardio | --- | --- | --- | 0.77 (0.53) .15 |
| a | Level \* diabetes | --- | --- | --- | 1.60 (1.45) .27 |
| a | Slope \* age | -0.00 (0.06) .92 | -0.01 (0.06) .92 | 0.00 (0.05) .99 | -0.01 (0.05) .87 |
| a | Slope \* education | --- | -0.01 (0.03) .74 | -0.01 (0.04) .71 | -0.03 (0.04) .53 |
| a | Slope \* height | --- | --- | 0.57 (1.68) .74 | 0.74 (1.58) .64 |
| a | Slope \* smoking | --- | --- | --- | 0.08 (0.14) .60 |
| a | Slope \* cardio | --- | --- | --- | -0.17 (0.25) .49 |
| a | Slope \* diabetes | --- | --- | --- | 0.95 (0.77) .22 |
| b | Level | 0.45 (0.15) <.01 | 0.46 (0.15) <.01 | 0.48 (0.17) <.01 | 0.52 (0.24) .03 |
| b | Slope | -0.53 (0.14) <.01 | -0.52 (0.15) <.01 | -0.54 (0.16) <.01 | -0.13 (0.19) .48 |
| b | Level \* age | -0.96 (0.27) <.01 | -0.91 (0.28) <.01 | -0.83 (0.29) <.01 | -0.80 (0.29) <.01 |
| b | Level \* education | --- | 1.62 (0.36) <.01 | 1.63 (0.36) <.01 | 1.75 (0.41) <.01 |
| b | Level \* height | --- | --- | 6.91 (12.12) .57 | 7.08 (12.22) .56 |
| b | Level \* smoking | --- | --- | --- | -0.74 (1.84) .69 |
| b | Level \* cardio | --- | --- | --- | 1.22 (1.27) .34 |
| b | Level \* diabetes | --- | --- | --- | -3.05 (3.36) .36 |
| b | Slope \* age | 0.00 (0.04) .97 | 0.01 (0.04) .86 | 0.01 (0.04) .80 | -0.01 (0.04) .84 |
| b | Slope \* education | --- | -0.02 (0.06) .72 | -0.03 (0.06) .65 | -0.04 (0.06) .51 |
| b | Slope \* height | --- | --- | 0.91 (1.94) .64 | 1.10 (1.86) .55 |
| b | Slope \* smoking | --- | --- | --- | -0.39 (0.29) .18 |
| b | Slope \* cardio | --- | --- | --- | -0.74 (0.20) <.01 |
| b | Slope \* diabetes | --- | --- | --- | 1.37 (0.50) .01 |
| a | Var (Level) | 13.44 (4.41) <.01 | 12.84 (4.18) <.01 | 12.49 (4.12) <.01 | 12.09 (4.01) <.01 |
| a | Var (Slope) | 0.59 (1.85) .75 | 0.65 (2.00) .75 | 0.84 (2.20) .70 | 0.88 (2.28) .70 |
| a | Var (Residual) | 12.05 (2.64) <.01 | 11.92 (2.63) <.01 | 11.65 (2.59) <.01 | 11.49 (2.52) <.01 |
| b | Var (Level) | 92.18 (12.88) <.01 | 77.26 (10.17) <.01 | 71.17 (9.48) <.01 | 70.58 (9.59) <.01 |
| b | Var (Slope) | 0.67 (0.27) .01 | 0.68 (0.26) .01 | 0.72 (0.28) .01 | 0.47 (0.24) .05 |
| b | Var (Residual) | 28.05 (2.38) <.01 | 28.14 (2.39) <.01 | 27.82 (2.40) <.01 | 27.76 (2.42) <.01 |
| a | Covar (Level, Slope) | 2.71 (3.47) .43 | 2.78 (3.55) .43 | 3.11 (3.66) .40 | 3.13 (3.62) .39 |
| b | Covar (Level, Slope) | -2.13 (1.11) .06 | -2.26 (1.10) .04 | -1.98 (1.03) .05 | -1.47 (1.03) .15 |
|  | Correlation of Levels | -0.482 | -0.407 | -0.35 | -0.37 |
|  | Correlation of Slopes | -0.300 | -0.269 | -0.35 | -0.42 |
|  | Correlation of Residuals | -0.095 | -0.099 | -0.11 | -0.12 |
|  | N | 280 | 279 | 266 | 266 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -5,001 | -4,978 | -4,849 | -4,834 |
|  | AIC | 10,044 | 10,006 | 9,756 | 9,749 |
|  | BIC | 10,120 | 10,097 | 9,860 | 9,896 |

## synonyms

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.43 (2.78) .11 | -1.14 (2.78) .68 | -1.36 (2.80) .63 | -1.40 (2.17) .52 |
| ab | Covar (Slopes) | -0.16 (0.28) .56 | -0.18 (0.28) .53 | -0.22 (0.34) .52 | -0.22 (0.53) .68 |
| ab | Covar (Residuals) | -1.36 (0.97) .16 | -1.36 (1.02) .18 | -1.25 (0.92) .17 | -1.22 (0.69) .08 |
| er | Corr (Levels) | -0.24 (0.15) .10 | -0.08 (0.19) .69 | -0.09 (0.20) .64 | -0.10 (0.15) .51 |
| er | Corr (Slopes) | -0.45 (0.27) .10 | -0.47 (0.27) .08 | -0.49 (0.26) .06 | -0.48 (0.48) .31 |
| er | Corr (Residuals) | -0.15 (0.09) .11 | -0.15 (0.10) .12 | -0.14 (0.09) .12 | -0.14 (0.07) .04 |
| a | Level | 10.64 (0.40) <.01 | 10.68 (0.41) <.01 | 10.64 (0.41) <.01 | 10.31 (0.48) <.01 |
| a | Slope | 17.61 (0.64) <.01 | 17.18 (0.55) <.01 | 17.32 (0.56) <.01 | 17.09 (0.65) <.01 |
| a | Level \* age | 0.39 (0.09) <.01 | 0.39 (0.09) <.01 | 0.35 (0.09) <.01 | 0.32 (0.09) <.01 |
| a | Level \* education | --- | -0.34 (0.11) <.01 | -0.35 (0.11) <.01 | -0.32 (0.13) .02 |
| a | Level \* height | --- | --- | -4.17 (6.25) .50 | -4.04 (5.68) .48 |
| a | Level \* smoking | --- | --- | --- | 0.01 (0.77) .99 |
| a | Level \* cardio | --- | --- | --- | 0.70 (0.52) .18 |
| a | Level \* diabetes | --- | --- | --- | 1.60 (1.44) .27 |
| a | Slope \* age | -0.00 (0.06) .97 | -0.00 (0.06) .97 | 0.00 (0.05) .94 | -0.00 (0.05) .92 |
| a | Slope \* education | --- | -0.01 (0.03) .74 | -0.01 (0.03) .71 | -0.02 (0.05) .65 |
| a | Slope \* height | --- | --- | 0.62 (1.90) .74 | 0.78 (2.28) .73 |
| a | Slope \* smoking | --- | --- | --- | 0.07 (0.19) .72 |
| a | Slope \* cardio | --- | --- | --- | -0.19 (0.23) .41 |
| a | Slope \* diabetes | --- | --- | --- | 1.00 (0.92) .28 |
| b | Level | 0.44 (0.17) .01 | 0.44 (0.17) .01 | 0.48 (0.18) .01 | 0.52 (0.34) .12 |
| b | Slope | -0.10 (0.08) .19 | -0.09 (0.08) .24 | -0.08 (0.08) .34 | -0.05 (0.12) .68 |
| b | Level \* age | -0.26 (0.16) .10 | -0.19 (0.13) .13 | -0.15 (0.13) .26 | -0.11 (0.13) .39 |
| b | Level \* education | --- | 1.33 (0.14) <.01 | 1.28 (0.14) <.01 | 1.28 (0.15) <.01 |
| b | Level \* height | --- | --- | 10.48 (6.87) .13 | 10.98 (6.78) .10 |
| b | Level \* smoking | --- | --- | --- | 0.24 (0.78) .75 |
| b | Level \* cardio | --- | --- | --- | 0.45 (0.66) .50 |
| b | Level \* diabetes | --- | --- | --- | -2.34 (1.36) .08 |
| b | Slope \* age | -0.01 (0.02) .74 | -0.01 (0.02) .70 | -0.01 (0.02) .70 | -0.01 (0.02) .74 |
| b | Slope \* education | --- | -0.02 (0.03) .54 | -0.02 (0.03) .54 | -0.01 (0.03) .76 |
| b | Slope \* height | --- | --- | 0.31 (1.12) .78 | 0.23 (1.07) .83 |
| b | Slope \* smoking | --- | --- | --- | -0.11 (0.16) .51 |
| b | Slope \* cardio | --- | --- | --- | -0.01 (0.14) .92 |
| b | Slope \* diabetes | --- | --- | --- | -0.10 (0.37) .78 |
| a | Var (Level) | 13.16 (4.07) <.01 | 12.67 (3.92) <.01 | 12.36 (3.82) <.01 | 11.96 (2.92) <.01 |
| a | Var (Slope) | 0.64 (2.04) .75 | 0.68 (2.13) .75 | 0.91 (2.29) .69 | 0.95 (2.23) .67 |
| a | Var (Residual) | 11.96 (3.26) <.01 | 11.87 (3.29) <.01 | 11.55 (2.92) <.01 | 11.39 (2.81) <.01 |
| b | Var (Level) | 25.39 (2.88) <.01 | 17.75 (2.25) <.01 | 17.33 (2.29) <.01 | 17.09 (2.24) <.01 |
| b | Var (Slope) | 0.20 (0.08) .01 | 0.21 (0.08) .01 | 0.22 (0.09) .01 | 0.22 (0.15) .14 |
| b | Var (Residual) | 6.90 (0.59) <.01 | 6.89 (0.59) <.01 | 6.81 (0.60) <.01 | 6.80 (0.59) <.01 |
| a | Covar (Level, Slope) | 2.77 (3.58) .44 | 2.81 (3.63) .44 | 3.18 (3.69) .39 | 3.21 (4.24) .45 |
| b | Covar (Level, Slope) | -0.16 (0.36) .66 | -0.12 (0.29) .69 | -0.11 (0.31) .73 | -0.09 (0.37) .81 |
|  | Correlation of Levels | -0.24 | -0.076 | -0.093 | -0.098 |
|  | Correlation of Slopes | -0.45 | -0.473 | -0.488 | -0.485 |
|  | Correlation of Residuals | -0.15 | -0.150 | -0.140 | -0.138 |
|  | N | 283 | 283 | 268 | 268 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -4,460 | -4,426 | -4,314 | -4,308 |
|  | AIC | 8,962 | 8,901 | 8,686 | 8,699 |
|  | BIC | 9,039 | 8,993 | 8,791 | 8,846 |

## Summary

Study = *OCTO*; Gender = *female*; Process (a) = *gait*

Computed correlations:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Levels | block | -0.49 | -0.44 | -0.43 | -0.44 |
| Correlation of Levels | clock | -0.43 | -0.31 | -0.17 | -0.19 |
| Correlation of Levels | digit\_b | -0.32 | -0.29 | -0.30 | -0.31 |
| Correlation of Levels | digit\_f | -0.15 | -0.09 | -0.09 | -0.11 |
| Correlation of Levels | fig\_logic | -0.49 | -0.44 | -0.43 | -0.43 |
| Correlation of Levels | information | -0.16 | -0.09 | -0.09 | -0.10 |
| Correlation of Levels | mir | -0.22 | -0.21 | -0.20 | -0.21 |
| Correlation of Levels | mir\_recog | -0.15 | -0.06 | . | . |
| Correlation of Levels | mmse | -0.40 | -0.30 | -0.27 | -0.27 |
| Correlation of Levels | prose\_im | -0.19 | -0.14 | -0.15 | -0.14 |
| Correlation of Levels | psif | . | . | . | . |
| Correlation of Levels | symbol | -0.48 | -0.41 | -0.35 | -0.37 |
| Correlation of Levels | synonyms | -0.24 | -0.08 | -0.09 | -0.10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Slopes | block | -0.41 | -0.44 | -0.50 | -0.49 |
| Correlation of Slopes | clock | 0.08 | -0.03 | -0.25 | -0.25 |
| Correlation of Slopes | digit\_b | 0.19 | 0.23 | 0.22 | 0.27 |
| Correlation of Slopes | digit\_f | -0.13 | -0.14 | -0.13 | -0.11 |
| Correlation of Slopes | fig\_logic | 0.14 | 0.12 | 0.16 | 0.12 |
| Correlation of Slopes | information | 0.08 | 0.08 | 0.08 | 0.04 |
| Correlation of Slopes | mir | 0.02 | 0.03 | 0.02 | 0.01 |
| Correlation of Slopes | mir\_recog | -0.12 | 0.02 | . | . |
| Correlation of Slopes | mmse | -0.05 | -0.04 | -0.04 | -0.07 |
| Correlation of Slopes | prose\_im | -0.18 | -0.19 | -0.19 | -0.23 |
| Correlation of Slopes | psif | . | . | . | . |
| Correlation of Slopes | symbol | -0.30 | -0.27 | -0.35 | -0.42 |
| Correlation of Slopes | synonyms | -0.45 | -0.47 | -0.49 | -0.49 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Residuals | block | -0.15 | -0.15 | -0.15 | -0.15 |
| Correlation of Residuals | clock | -0.37 | -0.35 | -0.27 | -0.26 |
| Correlation of Residuals | digit\_b | 0.03 | 0.03 | 0.03 | 0.03 |
| Correlation of Residuals | digit\_f | -0.04 | -0.04 | -0.04 | -0.04 |
| Correlation of Residuals | fig\_logic | -0.07 | -0.07 | -0.07 | -0.07 |
| Correlation of Residuals | information | -0.05 | -0.05 | -0.05 | -0.05 |
| Correlation of Residuals | mir | -0.13 | -0.13 | -0.13 | -0.12 |
| Correlation of Residuals | mir\_recog | -0.02 | -0.02 | . | . |
| Correlation of Residuals | mmse | -0.00 | -0.00 | -0.01 | -0.01 |
| Correlation of Residuals | prose\_im | -0.06 | -0.06 | -0.06 | -0.06 |
| Correlation of Residuals | psif | . | . | . | . |
| Correlation of Residuals | symbol | -0.10 | -0.10 | -0.11 | -0.12 |
| Correlation of Residuals | synonyms | -0.15 | -0.15 | -0.14 | -0.14 |

P-values for corresponding covariances:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Levels | block | 0.01 | 0.01 | 0.01 | 0.00 |
| Covariance of Levels | clock | 0.17 | 0.10 | 0.11 | 0.10 |
| Covariance of Levels | digit\_b | 0.04 | 0.06 | 0.02 | 0.01 |
| Covariance of Levels | digit\_f | 0.18 | 0.42 | 0.40 | 0.22 |
| Covariance of Levels | fig\_logic | 0.06 | 0.07 | 0.08 | 0.12 |
| Covariance of Levels | information | 0.24 | 0.53 | 0.32 | 0.26 |
| Covariance of Levels | mir | 0.06 | 0.06 | 0.06 | 0.02 |
| Covariance of Levels | mir\_recog | 0.58 | 0.41 | . | . |
| Covariance of Levels | mmse | 0.15 | 0.11 | 0.12 | 0.02 |
| Covariance of Levels | prose\_im | 0.10 | 0.23 | 0.15 | 0.23 |
| Covariance of Levels | psif | . | . | . | . |
| Covariance of Levels | symbol | 0.04 | 0.06 | 0.08 | 0.04 |
| Covariance of Levels | synonyms | 0.11 | 0.68 | 0.63 | 0.52 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Slopes | block | 0.69 | 0.68 | 0.65 | 0.74 |
| Covariance of Slopes | clock | 0.97 | 0.98 | 0.68 | 0.65 |
| Covariance of Slopes | digit\_b | 0.77 | 0.74 | 0.79 | 0.75 |
| Covariance of Slopes | digit\_f | 0.52 | 0.50 | 0.46 | 0.29 |
| Covariance of Slopes | fig\_logic | 0.84 | 0.86 | 0.77 | 0.83 |
| Covariance of Slopes | information | 0.62 | 0.64 | 0.57 | 0.61 |
| Covariance of Slopes | mir | 0.94 | 0.91 | 0.93 | 0.97 |
| Covariance of Slopes | mir\_recog | 0.94 | 0.96 | . | . |
| Covariance of Slopes | mmse | 0.90 | 0.88 | 0.85 | 0.66 |
| Covariance of Slopes | prose\_im | 0.08 | 0.07 | 0.47 | 0.44 |
| Covariance of Slopes | psif | . | . | . | . |
| Covariance of Slopes | symbol | 0.76 | 0.78 | 0.69 | 0.68 |
| Covariance of Slopes | synonyms | 0.56 | 0.53 | 0.52 | 0.68 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Residuals | block | 0.03 | 0.04 | 0.03 | 0.01 |
| Covariance of Residuals | clock | 0.17 | 0.30 | 0.14 | 0.14 |
| Covariance of Residuals | digit\_b | 0.62 | 0.61 | 0.59 | 0.60 |
| Covariance of Residuals | digit\_f | 0.52 | 0.52 | 0.49 | 0.28 |
| Covariance of Residuals | fig\_logic | 0.40 | 0.40 | 0.40 | 0.31 |
| Covariance of Residuals | information | 0.35 | 0.35 | 0.17 | 0.15 |
| Covariance of Residuals | mir | 0.13 | 0.13 | 0.11 | 0.02 |
| Covariance of Residuals | mir\_recog | 0.74 | 0.65 | . | . |
| Covariance of Residuals | mmse | 0.95 | 0.96 | 0.86 | 0.91 |
| Covariance of Residuals | prose\_im | 0.45 | 0.44 | 0.11 | 0.13 |
| Covariance of Residuals | psif | . | . | . | . |
| Covariance of Residuals | symbol | 0.18 | 0.18 | 0.16 | 0.16 |
| Covariance of Residuals | synonyms | 0.16 | 0.18 | 0.17 | 0.08 |

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *block*, *clock*, *digit\_b*, *digit\_f*, *fig\_logic*, *information*, *mir*, *mir\_recog*, *mmse*, *prose\_im*, *psif*, *symbol*, *synonyms*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| process | label | block | clock | digit\_b | digit\_f | fig\_logic | information | mir | mir\_recog | mmse | prose\_im | psif | symbol | synonyms | mean(sd) |
| ab | Covar (Levels) | -4.56 (1.81) .01 | -1.16 (0.67) .08 | -0.46 (0.47) .33 | -0.31 (0.32) .33 | -2.35 (1.34) .08 | -2.85 (1.95) .14 | -1.69 (0.60) <.01 | -0.54 (0.58) .35 | -1.56 (0.96) .10 | --- | --- | -7.59 (2.82) .01 | -0.87 (1.52) .57 | --- |
| ab | Covar (Slopes) | -0.04 (0.10) .69 | -0.01 (0.06) .89 | -0.02 (0.03) .45 | -0.01 (0.01) .33 | 0.01 (0.08) .87 | -0.02 (0.10) .83 | -0.01 (0.04) .70 | -0.01 (0.02) .69 | -0.03 (0.04) .48 | --- | --- | 0.00 (0.11) .99 | -0.02 (0.06) .65 | --- |
| ab | Covar (Residuals) | -0.78 (0.74) .29 | -0.68 (0.30) .02 | -0.11 (0.27) .69 | -0.10 (0.13) .41 | -0.46 (0.73) .53 | -0.90 (0.81) .27 | -0.18 (0.30) .54 | -0.36 (0.18) .04 | -0.84 (0.55) .13 | --- | --- | -2.51 (1.15) .03 | -0.38 (0.49) .44 | --- |
| er | Corr (Levels) | -0.40 (0.14) <.01 | -0.41 (0.25) .10 | -0.22 (0.22) .32 | -0.17 (0.18) .34 | -0.46 (0.23) .04 | -0.21 (0.14) .13 | -0.57 (0.16) <.01 | -0.33 (0.30) .27 | -0.48 (0.30) .11 | --- | --- | -0.46 (0.14) <.01 | -0.09 (0.16) .56 | --- |
| er | Corr (Slopes) | -0.73 (2.52) .77 | -0.15 (1.26) .91 | -0.59 (0.88) .51 | -0.56 (0.69) .42 | 0.27 (1.68) .87 | -0.14 (0.60) .82 | -0.18 (0.47) .70 | -0.32 (0.74) .66 | -0.42 (0.61) .49 | --- | --- | 0.00 (1.01) .99 | -0.63 (1.90) .74 | --- |
| er | Corr (Residuals) | -0.10 (0.09) .28 | -0.16 (0.06) .01 | -0.04 (0.11) .69 | -0.06 (0.07) .41 | -0.06 (0.10) .52 | -0.11 (0.09) .25 | -0.05 (0.08) .54 | -0.12 (0.05) .02 | -0.12 (0.08) .12 | --- | --- | -0.23 (0.09) .01 | -0.06 (0.08) .44 | --- |
| a | Level | 8.55 (0.59) <.01 | 8.43 (0.59) <.01 | 8.47 (0.58) <.01 | 8.39 (0.58) <.01 | 8.47 (0.57) <.01 | 8.39 (0.57) <.01 | 8.66 (0.57) <.01 | 8.49 (0.58) <.01 | 8.41 (0.57) <.01 | --- | --- | 8.53 (0.58) <.01 | 8.39 (0.58) <.01 | 8.47(0.08) |
| a | Slope | 16.69 (1.57) <.01 | 14.58 (0.36) <.01 | 3.97 (0.28) <.01 | 6.02 (0.28) <.01 | 17.17 (0.86) <.01 | 35.42 (1.79) <.01 | 7.33 (0.45) <.01 | 10.09 (0.18) <.01 | 28.81 (0.52) <.01 | --- | --- | 31.53 (2.46) <.01 | 19.02 (1.26) <.01 | 17.33(10.63) |
| a | Level \* age | 0.30 (0.11) .01 | 0.33 (0.12) <.01 | 0.28 (0.11) .01 | 0.30 (0.11) .01 | 0.29 (0.11) .01 | 0.31 (0.11) <.01 | 0.27 (0.11) .01 | 0.30 (0.11) .01 | 0.31 (0.11) <.01 | --- | --- | 0.30 (0.11) .01 | 0.29 (0.11) .01 | 0.30(0.02) |
| a | Level \* education | -0.08 (0.10) .40 | -0.07 (0.10) .44 | -0.08 (0.10) .39 | -0.08 (0.09) .39 | -0.08 (0.09) .38 | -0.08 (0.09) .41 | -0.10 (0.10) .29 | -0.08 (0.10) .41 | -0.07 (0.10) .44 | --- | --- | -0.08 (0.10) .38 | -0.08 (0.10) .38 | -0.08(0.01) |
| a | Level \* height | -5.62 (4.23) .18 | -5.23 (4.25) .22 | -5.16 (4.26) .23 | -5.13 (4.26) .23 | -5.46 (4.26) .20 | -5.78 (4.25) .17 | -5.61 (4.24) .18 | -5.61 (4.24) .18 | -4.94 (4.22) .24 | --- | --- | -5.70 (4.24) .18 | -5.99 (4.22) .16 | -5.48(0.32) |
| a | Level \* smoking | 0.91 (0.62) .14 | 0.91 (0.64) .16 | 1.00 (0.61) .10 | 1.04 (0.62) .09 | 1.03 (0.60) .09 | 1.00 (0.60) .10 | 0.89 (0.61) .15 | 0.89 (0.62) .15 | 0.98 (0.61) .11 | --- | --- | 0.91 (0.61) .14 | 1.05 (0.61) .08 | 0.96(0.06) |
| a | Level \* cardio | 1.27 (0.55) .02 | 1.42 (0.58) .01 | 1.32 (0.56) .02 | 1.30 (0.55) .02 | 1.25 (0.55) .02 | 1.28 (0.55) .02 | 1.29 (0.56) .02 | 1.38 (0.56) .01 | 1.35 (0.56) .02 | --- | --- | 1.30 (0.55) .02 | 1.28 (0.55) .02 | 1.31(0.05) |
| a | Level \* diabetes | 1.18 (0.83) .15 | 1.35 (0.81) .10 | 1.29 (0.82) .12 | 1.26 (0.82) .12 | 1.22 (0.82) .14 | 1.31 (0.82) .11 | 1.00 (0.83) .23 | 1.18 (0.83) .15 | 1.37 (0.80) .09 | --- | --- | 1.11 (0.83) .18 | 1.22 (0.82) .14 | 1.23(0.11) |
| a | Slope \* age | -0.01 (0.03) .71 | -0.01 (0.03) .76 | -0.01 (0.03) .86 | -0.01 (0.03) .65 | -0.01 (0.03) .80 | -0.01 (0.03) .82 | -0.00 (0.03) .98 | -0.01 (0.03) .85 | -0.00 (0.03) .88 | --- | --- | -0.01 (0.03) .74 | -0.02 (0.03) .61 | -0.01(0.00) |
| a | Slope \* education | 0.00 (0.02) .92 | 0.00 (0.03) .96 | 0.00 (0.02) .86 | 0.00 (0.02) .88 | 0.00 (0.02) .90 | 0.00 (0.03) .85 | 0.01 (0.03) .82 | -0.00 (0.03) .98 | 0.00 (0.02) .93 | --- | --- | 0.01 (0.02) .79 | 0.01 (0.02) .78 | 0.00(0.00) |
| a | Slope \* height | 0.97 (1.02) .34 | 0.69 (1.00) .49 | 0.46 (0.97) .64 | 0.70 (1.01) .49 | 0.84 (1.01) .40 | 0.81 (1.14) .48 | 0.67 (1.08) .54 | 0.70 (0.98) .48 | 0.78 (1.01) .44 | --- | --- | 0.96 (1.05) .36 | 0.80 (0.99) .42 | 0.76(0.14) |
| a | Slope \* smoking | -0.09 (0.14) .50 | -0.05 (0.14) .75 | -0.05 (0.13) .68 | -0.09 (0.15) .56 | -0.10 (0.14) .47 | -0.06 (0.14) .64 | -0.05 (0.13) .71 | -0.04 (0.13) .78 | -0.07 (0.13) .60 | --- | --- | -0.10 (0.14) .46 | -0.10 (0.13) .44 | -0.07(0.02) |
| a | Slope \* cardio | 0.24 (0.14) .10 | 0.24 (0.14) .08 | 0.21 (0.14) .14 | 0.22 (0.14) .12 | 0.24 (0.14) .09 | 0.23 (0.15) .11 | 0.25 (0.14) .09 | 0.20 (0.14) .17 | 0.23 (0.14) .11 | --- | --- | 0.22 (0.14) .13 | 0.20 (0.15) .16 | 0.23(0.02) |
| a | Slope \* diabetes | 0.15 (0.22) .50 | 0.07 (0.26) .80 | 0.07 (0.22) .75 | 0.08 (0.23) .71 | 0.12 (0.22) .58 | 0.21 (0.23) .37 | 0.14 (0.23) .55 | 0.13 (0.23) .58 | 0.20 (0.22) .37 | --- | --- | 0.11 (0.22) .62 | 0.12 (0.21) .57 | 0.13(0.05) |
| b | Level | 0.30 (0.14) .03 | 0.25 (0.13) .06 | 0.25 (0.14) .06 | 0.31 (0.13) .02 | 0.28 (0.13) .03 | 0.27 (0.13) .03 | 0.21 (0.14) .13 | 0.25 (0.13) .06 | 0.29 (0.13) .03 | --- | --- | 0.32 (0.14) .02 | 0.33 (0.13) .01 | --- |
| b | Slope | -0.45 (0.17) .01 | 0.06 (0.07) .38 | -0.07 (0.10) .44 | -0.10 (0.06) .12 | 0.08 (0.20) .68 | -0.06 (0.31) .85 | 0.06 (0.10) .59 | -0.12 (0.08) .12 | -0.14 (0.14) .32 | --- | --- | -0.64 (0.34) .06 | -0.36 (0.22) .10 | --- |
| b | Level \* age | -0.47 (0.24) .06 | -0.10 (0.07) .17 | -0.08 (0.05) .10 | -0.02 (0.03) .46 | -0.13 (0.12) .27 | -0.34 (0.31) .26 | -0.21 (0.08) <.01 | -0.14 (0.06) .02 | -0.26 (0.12) .02 | --- | --- | -0.63 (0.41) .12 | 0.11 (0.26) .66 | --- |
| b | Level \* education | 0.63 (0.21) <.01 | 0.03 (0.04) .43 | 0.12 (0.03) <.01 | 0.07 (0.03) .01 | 0.34 (0.10) <.01 | 1.04 (0.17) <.01 | 0.08 (0.05) .12 | 0.05 (0.03) .17 | 0.14 (0.07) .03 | --- | --- | 1.65 (0.25) <.01 | 1.23 (0.15) <.01 | --- |
| b | Level \* height | 14.93 (8.98) .10 | 2.53 (2.45) .30 | 0.19 (1.70) .91 | 1.17 (1.65) .48 | 3.74 (4.78) .43 | 18.84 (11.06) .09 | -0.14 (3.03) .96 | 2.36 (1.50) .12 | 3.21 (3.03) .29 | --- | --- | 23.14 (12.03) .05 | 9.68 (8.14) .23 | --- |
| b | Level \* smoking | -3.67 (1.46) .01 | 0.23 (0.39) .54 | -0.19 (0.29) .51 | -0.47 (0.25) .06 | -1.97 (0.74) .01 | -2.82 (1.73) .10 | -0.25 (0.43) .56 | 0.06 (0.28) .82 | -0.49 (0.49) .32 | --- | --- | -6.12 (2.38) .01 | -4.57 (1.21) <.01 | --- |
| b | Level \* cardio | -0.61 (1.13) .59 | -0.04 (0.34) .91 | -0.55 (0.26) .03 | -0.01 (0.19) .94 | 0.52 (0.68) .44 | 1.09 (1.36) .42 | -0.38 (0.32) .24 | -0.22 (0.24) .36 | -0.05 (0.50) .93 | --- | --- | -1.47 (1.89) .44 | 0.34 (1.10) .76 | --- |
| b | Level \* diabetes | -2.61 (1.28) .04 | -1.28 (0.81) .11 | -0.29 (0.43) .50 | -0.03 (0.24) .91 | -1.20 (1.26) .34 | -2.71 (1.66) .10 | -0.04 (0.55) .94 | 0.38 (0.19) .05 | -1.12 (0.92) .22 | --- | --- | -2.58 (2.26) .25 | -3.55 (1.54) .02 | --- |
| b | Slope \* age | 0.04 (0.03) .20 | -0.00 (0.02) .77 | 0.00 (0.01) .84 | -0.01 (0.01) .09 | 0.02 (0.04) .65 | -0.03 (0.07) .66 | -0.03 (0.02) .19 | 0.01 (0.01) .32 | -0.06 (0.04) .08 | --- | --- | 0.05 (0.07) .45 | 0.00 (0.05) .94 | --- |
| b | Slope \* education | 0.02 (0.04) .64 | 0.02 (0.01) .02 | -0.00 (0.01) .61 | 0.01 (0.01) .20 | -0.01 (0.03) .81 | 0.02 (0.03) .34 | -0.01 (0.02) .69 | -0.01 (0.01) .33 | 0.01 (0.02) .64 | --- | --- | 0.02 (0.04) .56 | -0.00 (0.02) .97 | --- |
| b | Slope \* height | -0.71 (1.30) .58 | 0.61 (0.70) .39 | 0.60 (0.38) .12 | -0.37 (0.28) .18 | 1.67 (1.18) .16 | 0.32 (2.10) .88 | 0.07 (0.75) .92 | -0.29 (0.42) .49 | -0.41 (0.86) .63 | --- | --- | -2.31 (1.89) .22 | 0.48 (1.23) .70 | --- |
| b | Slope \* smoking | 0.05 (0.15) .76 | -0.23 (0.08) <.01 | -0.03 (0.08) .72 | 0.06 (0.05) .23 | -0.18 (0.16) .24 | -0.31 (0.25) .21 | -0.07 (0.09) .46 | 0.06 (0.07) .40 | -0.07 (0.13) .59 | --- | --- | 0.22 (0.31) .48 | 0.26 (0.18) .16 | --- |
| b | Slope \* cardio | -0.17 (0.16) .31 | -0.13 (0.09) .16 | 0.08 (0.06) .12 | -0.02 (0.04) .49 | 0.07 (0.15) .64 | -0.26 (0.24) .28 | -0.13 (0.10) .19 | -0.03 (0.06) .61 | -0.06 (0.13) .64 | --- | --- | -0.16 (0.27) .54 | -0.06 (0.14) .66 | --- |
| b | Slope \* diabetes | 0.23 (0.30) .44 | 0.18 (0.14) .20 | -0.04 (0.12) .77 | -0.00 (0.06) .96 | 0.38 (0.37) .30 | -0.38 (0.64) .55 | 0.14 (0.13) .29 | 0.04 (0.06) .46 | -0.04 (0.27) .89 | --- | --- | -0.09 (0.45) .85 | -0.06 (0.30) .85 | --- |
| a | Var (Level) | 4.11 (1.40) <.01 | 4.46 (1.74) .01 | 4.14 (1.45) <.01 | 3.86 (1.35) <.01 | 3.98 (1.39) <.01 | 3.81 (1.36) <.01 | 4.36 (1.49) <.01 | 4.25 (1.53) .01 | 4.16 (1.43) <.01 | --- | --- | 3.85 (1.35) <.01 | 3.80 (1.35) <.01 | 4.07(0.23) |
| a | Var (Slope) | 0.06 (0.09) .51 | 0.06 (0.15) .67 | 0.06 (0.10) .49 | 0.04 (0.07) .60 | 0.06 (0.09) .54 | 0.04 (0.08) .57 | 0.08 (0.10) .44 | 0.07 (0.10) .50 | 0.05 (0.09) .54 | --- | --- | 0.04 (0.07) .61 | 0.03 (0.08) .73 | 0.05(0.02) |
| a | Var (Residual) | 6.22 (1.13) <.01 | 6.26 (1.20) <.01 | 6.21 (1.10) <.01 | 6.37 (1.18) <.01 | 6.27 (1.15) <.01 | 6.32 (1.16) <.01 | 6.09 (1.04) <.01 | 6.24 (1.14) <.01 | 6.31 (1.12) <.01 | --- | --- | 6.38 (1.18) <.01 | 6.40 (1.21) <.01 | 6.28(0.09) |
| b | Var (Level) | 32.21 (5.17) <.01 | 1.80 (0.99) .07 | 1.06 (0.27) <.01 | 0.81 (0.17) <.01 | 6.41 (1.85) <.01 | 50.05 (8.08) <.01 | 1.99 (0.41) <.01 | 0.60 (0.70) .39 | 2.57 (1.76) .14 | --- | --- | 71.50 (11.18) <.01 | 23.30 (3.21) <.01 | --- |
| b | Var (Slope) | 0.05 (0.18) .80 | 0.05 (0.05) .36 | 0.02 (0.01) .18 | 0.01 (0.00) .02 | 0.04 (0.10) .69 | 0.54 (0.16) <.01 | 0.07 (0.02) <.01 | 0.01 (0.02) .56 | 0.10 (0.06) .09 | --- | --- | 0.35 (0.25) .17 | 0.06 (0.06) .28 | --- |
| b | Var (Residual) | 9.25 (1.33) <.01 | 2.74 (0.65) <.01 | 0.95 (0.14) <.01 | 0.52 (0.08) <.01 | 8.26 (1.11) <.01 | 11.21 (1.42) <.01 | 1.96 (0.22) <.01 | 1.55 (0.53) <.01 | 7.24 (1.54) <.01 | --- | --- | 17.91 (2.66) <.01 | 5.46 (0.67) <.01 | --- |
| a | Covar (Level, Slope) | 0.07 (0.38) .85 | 0.01 (0.48) .97 | 0.05 (0.40) .90 | 0.12 (0.36) .73 | 0.09 (0.38) .81 | 0.16 (0.37) .66 | 0.00 (0.41) .99 | 0.00 (0.44) .99 | 0.13 (0.39) .74 | --- | --- | 0.14 (0.35) .69 | 0.19 (0.36) .60 | 0.09(0.07) |
| b | Covar (Level, Slope) | 0.01 (0.52) .98 | 0.14 (0.16) .38 | -0.09 (0.05) .07 | -0.07 (0.03) .01 | -0.35 (0.35) .32 | -0.06 (0.73) .93 | -0.00 (0.08) .95 | -0.00 (0.12) .99 | 0.18 (0.33) .59 | --- | --- | -2.52 (1.19) .03 | -0.11 (0.38) .77 | --- |
|  | Correlation of Levels | -0.40 | -0.41 | -0.217 | -0.175 | -0.465 | -0.21 | -0.575 | -0.33 | -0.48 | NaN | NaN | -0.4573 | -0.092 | -0.35(0.15) |
|  | Correlation of Slopes | -0.74 | -0.15 | -0.582 | -0.555 | 0.274 | -0.13 | -0.173 | -0.31 | -0.42 | NaN | NaN | 0.0088 | -0.626 | -0.31(0.31) |
|  | Correlation of Residuals | -0.10 | -0.17 | -0.044 | -0.057 | -0.064 | -0.11 | -0.052 | -0.12 | -0.12 | NaN | NaN | -0.2351 | -0.065 | -0.10(0.06) |
|  | N | 137 | 137 | 139 | 139 | 135 | 140 | 137 | 137 | 140 | NA | NA | 134 | 134 | 137.18(2.18) |
|  | occasions | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | NA | NA | 5 | 5 | 5.00(0.00) |
|  | parameters | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | NA | NA | 41 | 41 | 41.00(0.00) |
|  | LL | -2,102 | -1,891 | -1,649 | -1,539 | -1,922 | -2,281 | -1,787 | -1,686 | -2,122 | NA | NA | -2,117 | -1,890 | -1,908(231) |
|  | AIC | 4,286 | 3,863 | 3,380 | 3,160 | 3,927 | 4,643 | 3,656 | 3,455 | 4,327 | NA | NA | 4,317 | 3,863 | 3,898(462) |
|  | BIC | 4,406 | 3,983 | 3,500 | 3,281 | 4,046 | 4,764 | 3,775 | 3,574 | 4,448 | NA | NA | 4,436 | 3,982 | 4,018(462) |

## block

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -8.41 (2.41) <.01 | -7.89 (2.21) <.01 | -6.03 (1.99) <.01 | -4.56 (1.81) .01 |
| ab | Covar (Slopes) | -0.04 (0.09) .65 | -0.04 (0.09) .68 | -0.04 (0.10) .65 | -0.04 (0.10) .69 |
| ab | Covar (Residuals) | -1.04 (0.84) .22 | -1.03 (0.83) .22 | -0.71 (0.74) .34 | -0.78 (0.74) .29 |
| er | Corr (Levels) | -0.53 (0.11) <.01 | -0.52 (0.11) <.01 | -0.46 (0.12) <.01 | -0.40 (0.14) <.01 |
| er | Corr (Slopes) | -0.70 (1.55) .65 | -0.66 (1.70) .70 | -0.74 (2.01) .71 | -0.73 (2.52) .77 |
| er | Corr (Residuals) | -0.13 (0.10) .19 | -0.13 (0.10) .19 | -0.09 (0.09) .32 | -0.10 (0.09) .28 |
| a | Level | 10.01 (0.48) <.01 | 10.10 (0.49) <.01 | 10.01 (0.45) <.01 | 8.55 (0.59) <.01 |
| a | Slope | 13.15 (0.99) <.01 | 12.50 (0.92) <.01 | 13.46 (0.91) <.01 | 16.69 (1.57) <.01 |
| a | Level \* age | 0.38 (0.12) <.01 | 0.36 (0.13) <.01 | 0.27 (0.11) .01 | 0.30 (0.11) .01 |
| a | Level \* education | --- | -0.10 (0.10) .32 | -0.10 (0.10) .31 | -0.08 (0.10) .40 |
| a | Level \* height | --- | --- | -5.92 (4.52) .19 | -5.62 (4.23) .18 |
| a | Level \* smoking | --- | --- | --- | 0.91 (0.62) .14 |
| a | Level \* cardio | --- | --- | --- | 1.27 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.18 (0.83) .15 |
| a | Slope \* age | -0.02 (0.04) .63 | -0.02 (0.04) .69 | -0.03 (0.03) .40 | -0.01 (0.03) .71 |
| a | Slope \* education | --- | 0.01 (0.03) .75 | -0.00 (0.02) .91 | 0.00 (0.02) .92 |
| a | Slope \* height | --- | --- | 0.54 (1.02) .60 | 0.97 (1.02) .34 |
| a | Slope \* smoking | --- | --- | --- | -0.09 (0.14) .50 |
| a | Slope \* cardio | --- | --- | --- | 0.24 (0.14) .10 |
| a | Slope \* diabetes | --- | --- | --- | 0.15 (0.22) .50 |
| b | Level | 0.37 (0.11) <.01 | 0.37 (0.11) <.01 | 0.38 (0.11) <.01 | 0.30 (0.14) .03 |
| b | Slope | -0.47 (0.11) <.01 | -0.47 (0.11) <.01 | -0.50 (0.12) <.01 | -0.45 (0.17) .01 |
| b | Level \* age | -0.50 (0.24) .04 | -0.43 (0.23) .06 | -0.46 (0.24) .06 | -0.47 (0.24) .06 |
| b | Level \* education | --- | 0.65 (0.21) <.01 | 0.57 (0.21) .01 | 0.63 (0.21) <.01 |
| b | Level \* height | --- | --- | 14.59 (9.07) .11 | 14.93 (8.98) .10 |
| b | Level \* smoking | --- | --- | --- | -3.67 (1.46) .01 |
| b | Level \* cardio | --- | --- | --- | -0.61 (1.13) .59 |
| b | Level \* diabetes | --- | --- | --- | -2.61 (1.28) .04 |
| b | Slope \* age | 0.04 (0.03) .26 | 0.04 (0.03) .23 | 0.05 (0.03) .12 | 0.04 (0.03) .20 |
| b | Slope \* education | --- | 0.01 (0.04) .77 | 0.02 (0.04) .55 | 0.02 (0.04) .64 |
| b | Slope \* height | --- | --- | -0.88 (1.38) .53 | -0.71 (1.30) .58 |
| b | Slope \* smoking | --- | --- | --- | 0.05 (0.15) .76 |
| b | Slope \* cardio | --- | --- | --- | -0.17 (0.16) .31 |
| b | Slope \* diabetes | --- | --- | --- | 0.23 (0.30) .44 |
| a | Var (Level) | 5.82 (1.87) <.01 | 5.73 (1.82) <.01 | 4.86 (1.58) <.01 | 4.11 (1.40) <.01 |
| a | Var (Slope) | 0.06 (0.15) .68 | 0.06 (0.15) .68 | 0.07 (0.11) .50 | 0.06 (0.09) .51 |
| a | Var (Residual) | 7.17 (1.59) <.01 | 7.14 (1.52) <.01 | 6.22 (1.13) <.01 | 6.22 (1.13) <.01 |
| b | Var (Level) | 43.95 (5.71) <.01 | 39.96 (5.46) <.01 | 35.90 (5.76) <.01 | 32.21 (5.17) <.01 |
| b | Var (Slope) | 0.06 (0.12) .61 | 0.05 (0.12) .66 | 0.05 (0.18) .78 | 0.05 (0.18) .80 |
| b | Var (Residual) | 9.06 (1.11) <.01 | 9.08 (1.12) <.01 | 9.27 (1.32) <.01 | 9.25 (1.33) <.01 |
| a | Covar (Level, Slope) | 0.35 (0.54) .51 | 0.37 (0.56) .51 | 0.15 (0.39) .70 | 0.07 (0.38) .85 |
| b | Covar (Level, Slope) | 0.20 (0.48) .68 | 0.11 (0.54) .84 | 0.02 (0.51) .97 | 0.01 (0.52) .98 |
|  | Correlation of Levels | -0.53 | -0.52 | -0.457 | -0.40 |
|  | Correlation of Slopes | -0.69 | -0.66 | -0.740 | -0.74 |
|  | Correlation of Residuals | -0.13 | -0.13 | -0.093 | -0.10 |
|  | N | 153 | 153 | 137 | 137 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,274 | -2,267 | -2,117 | -2,102 |
|  | AIC | 4,590 | 4,584 | 4,291 | 4,286 |
|  | BIC | 4,654 | 4,660 | 4,376 | 4,406 |

## clock

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.20 (3.59) .24 | -3.84 (2.94) .19 | -1.30 (0.82) .11 | -1.16 (0.67) .08 |
| ab | Covar (Slopes) | -0.01 (0.14) .96 | -0.01 (0.13) .96 | -0.01 (0.05) .80 | -0.01 (0.06) .89 |
| ab | Covar (Residuals) | -0.87 (0.40) .03 | -0.88 (0.40) .03 | -0.66 (0.31) .03 | -0.68 (0.30) .02 |
| er | Corr (Levels) | -0.60 (0.50) .23 | -0.58 (0.44) .19 | -0.42 (0.26) .10 | -0.41 (0.25) .10 |
| er | Corr (Slopes) | -0.10 (2.29) .96 | -0.10 (2.20) .96 | -0.21 (1.02) .84 | -0.15 (1.26) .91 |
| er | Corr (Residuals) | -0.17 (0.07) .02 | -0.18 (0.07) .02 | -0.16 (0.07) .02 | -0.16 (0.06) .01 |
| a | Level | 9.84 (0.49) <.01 | 10.00 (0.51) <.01 | 9.96 (0.45) <.01 | 8.43 (0.59) <.01 |
| a | Slope | 14.63 (0.33) <.01 | 14.44 (0.33) <.01 | 14.61 (0.27) <.01 | 14.58 (0.36) <.01 |
| a | Level \* age | 0.54 (0.21) .01 | 0.49 (0.19) .01 | 0.30 (0.11) .01 | 0.33 (0.12) <.01 |
| a | Level \* education | --- | -0.08 (0.11) .45 | -0.10 (0.10) .32 | -0.07 (0.10) .44 |
| a | Level \* height | --- | --- | -5.75 (4.60) .21 | -5.23 (4.25) .22 |
| a | Level \* smoking | --- | --- | --- | 0.91 (0.64) .16 |
| a | Level \* cardio | --- | --- | --- | 1.42 (0.58) .01 |
| a | Level \* diabetes | --- | --- | --- | 1.35 (0.81) .10 |
| a | Slope \* age | -0.03 (0.11) .79 | -0.02 (0.11) .83 | -0.03 (0.03) .40 | -0.01 (0.03) .76 |
| a | Slope \* education | --- | 0.01 (0.07) .90 | -0.00 (0.03) .91 | 0.00 (0.03) .96 |
| a | Slope \* height | --- | --- | 0.35 (0.98) .72 | 0.69 (1.00) .49 |
| a | Slope \* smoking | --- | --- | --- | -0.05 (0.14) .75 |
| a | Slope \* cardio | --- | --- | --- | 0.24 (0.14) .08 |
| a | Slope \* diabetes | --- | --- | --- | 0.07 (0.26) .80 |
| b | Level | 0.37 (0.13) <.01 | 0.35 (0.12) <.01 | 0.36 (0.09) <.01 | 0.25 (0.13) .06 |
| b | Slope | -0.20 (0.08) .01 | -0.22 (0.08) .01 | -0.18 (0.07) .01 | 0.06 (0.07) .38 |
| b | Level \* age | -0.31 (0.11) <.01 | -0.23 (0.09) .01 | -0.10 (0.07) .15 | -0.10 (0.07) .17 |
| b | Level \* education | --- | 0.05 (0.06) .43 | 0.04 (0.04) .31 | 0.03 (0.04) .43 |
| b | Level \* height | --- | --- | 3.10 (2.38) .19 | 2.53 (2.45) .30 |
| b | Level \* smoking | --- | --- | --- | 0.23 (0.39) .54 |
| b | Level \* cardio | --- | --- | --- | -0.04 (0.34) .91 |
| b | Level \* diabetes | --- | --- | --- | -1.28 (0.81) .11 |
| b | Slope \* age | 0.01 (0.03) .78 | 0.01 (0.02) .72 | 0.00 (0.02) .89 | -0.00 (0.02) .77 |
| b | Slope \* education | --- | 0.02 (0.01) .05 | 0.02 (0.01) .03 | 0.02 (0.01) .02 |
| b | Slope \* height | --- | --- | 0.21 (0.71) .77 | 0.61 (0.70) .39 |
| b | Slope \* smoking | --- | --- | --- | -0.23 (0.08) <.01 |
| b | Slope \* cardio | --- | --- | --- | -0.13 (0.09) .16 |
| b | Slope \* diabetes | --- | --- | --- | 0.18 (0.14) .20 |
| a | Var (Level) | 8.21 (3.77) .03 | 7.93 (3.38) .02 | 5.29 (1.89) <.01 | 4.46 (1.74) .01 |
| a | Var (Slope) | 0.09 (0.53) .86 | 0.09 (0.56) .88 | 0.07 (0.16) .65 | 0.06 (0.15) .67 |
| a | Var (Residual) | 7.16 (3.42) .04 | 7.14 (3.36) .03 | 6.28 (1.23) <.01 | 6.26 (1.20) <.01 |
| b | Var (Level) | 6.01 (2.51) .02 | 5.44 (2.39) .02 | 1.84 (1.03) .07 | 1.80 (0.99) .07 |
| b | Var (Slope) | 0.06 (0.08) .45 | 0.05 (0.07) .47 | 0.06 (0.06) .30 | 0.05 (0.05) .36 |
| b | Var (Residual) | 3.53 (0.76) <.01 | 3.51 (0.74) <.01 | 2.78 (0.66) <.01 | 2.74 (0.65) <.01 |
| a | Covar (Level, Slope) | 0.11 (1.04) .92 | 0.16 (1.01) .88 | 0.12 (0.48) .81 | 0.01 (0.48) .97 |
| b | Covar (Level, Slope) | 0.36 (0.40) .36 | 0.35 (0.36) .32 | 0.18 (0.17) .28 | 0.14 (0.16) .38 |
|  | Correlation of Levels | -0.598 | -0.58 | -0.42 | -0.41 |
|  | Correlation of Slopes | -0.098 | -0.10 | -0.20 | -0.15 |
|  | Correlation of Residuals | -0.173 | -0.18 | -0.16 | -0.17 |
|  | N | 161 | 160 | 137 | 137 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,182 | -2,173 | -1,907 | -1,891 |
|  | AIC | 4,407 | 4,397 | 3,872 | 3,863 |
|  | BIC | 4,472 | 4,473 | 3,956 | 3,983 |

## digit\_b

Gender = *male*; Process (a) = *gait*; Process (b) = *digit\_b*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -0.96 (0.60) .11 | -0.81 (0.55) .14 | -0.74 (0.48) .13 | -0.46 (0.47) .33 |
| ab | Covar (Slopes) | -0.02 (0.04) .52 | -0.02 (0.04) .55 | -0.02 (0.03) .46 | -0.02 (0.03) .45 |
| ab | Covar (Residuals) | -0.12 (0.33) .71 | -0.12 (0.32) .70 | -0.08 (0.28) .78 | -0.11 (0.27) .69 |
| er | Corr (Levels) | -0.32 (0.18) .08 | -0.29 (0.19) .12 | -0.31 (0.19) .10 | -0.22 (0.22) .32 |
| er | Corr (Slopes) | -0.58 (1.02) .57 | -0.54 (1.05) .61 | -0.52 (0.73) .48 | -0.59 (0.88) .51 |
| er | Corr (Residuals) | -0.05 (0.12) .71 | -0.05 (0.12) .70 | -0.03 (0.12) .78 | -0.04 (0.11) .69 |
| a | Level | 9.90 (0.49) <.01 | 9.99 (0.51) <.01 | 10.02 (0.46) <.01 | 8.47 (0.58) <.01 |
| a | Slope | 3.53 (0.19) <.01 | 3.38 (0.19) <.01 | 3.52 (0.18) <.01 | 3.97 (0.28) <.01 |
| a | Level \* age | 0.38 (0.13) <.01 | 0.37 (0.13) <.01 | 0.25 (0.11) .02 | 0.28 (0.11) .01 |
| a | Level \* education | --- | -0.09 (0.10) .35 | -0.10 (0.09) .28 | -0.08 (0.10) .39 |
| a | Level \* height | --- | --- | -5.66 (4.57) .22 | -5.16 (4.26) .23 |
| a | Level \* smoking | --- | --- | --- | 1.00 (0.61) .10 |
| a | Level \* cardio | --- | --- | --- | 1.32 (0.56) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.29 (0.82) .12 |
| a | Slope \* age | -0.01 (0.04) .74 | -0.01 (0.04) .81 | -0.02 (0.03) .46 | -0.01 (0.03) .86 |
| a | Slope \* education | --- | 0.01 (0.03) .67 | 0.00 (0.03) .99 | 0.00 (0.02) .86 |
| a | Slope \* height | --- | --- | 0.24 (1.00) .81 | 0.46 (0.97) .64 |
| a | Slope \* smoking | --- | --- | --- | -0.05 (0.13) .68 |
| a | Slope \* cardio | --- | --- | --- | 0.21 (0.14) .14 |
| a | Slope \* diabetes | --- | --- | --- | 0.07 (0.22) .75 |
| b | Level | 0.34 (0.11) <.01 | 0.33 (0.11) <.01 | 0.36 (0.10) <.01 | 0.25 (0.14) .06 |
| b | Slope | -0.06 (0.04) .16 | -0.05 (0.04) .25 | -0.06 (0.04) .19 | -0.07 (0.10) .44 |
| b | Level \* age | -0.07 (0.04) .09 | -0.06 (0.04) .16 | -0.07 (0.04) .12 | -0.08 (0.05) .10 |
| b | Level \* education | --- | 0.15 (0.03) <.01 | 0.13 (0.03) <.01 | 0.12 (0.03) <.01 |
| b | Level \* height | --- | --- | 0.19 (1.71) .91 | 0.19 (1.70) .91 |
| b | Level \* smoking | --- | --- | --- | -0.19 (0.29) .51 |
| b | Level \* cardio | --- | --- | --- | -0.55 (0.26) .03 |
| b | Level \* diabetes | --- | --- | --- | -0.29 (0.43) .50 |
| b | Slope \* age | -0.00 (0.01) .96 | -0.00 (0.01) .93 | 0.00 (0.01) .86 | 0.00 (0.01) .84 |
| b | Slope \* education | --- | -0.01 (0.01) .44 | -0.01 (0.01) .37 | -0.00 (0.01) .61 |
| b | Slope \* height | --- | --- | 0.54 (0.33) .10 | 0.60 (0.38) .12 |
| b | Slope \* smoking | --- | --- | --- | -0.03 (0.08) .72 |
| b | Slope \* cardio | --- | --- | --- | 0.08 (0.06) .12 |
| b | Slope \* diabetes | --- | --- | --- | -0.04 (0.12) .77 |
| a | Var (Level) | 5.88 (1.99) <.01 | 5.78 (1.92) <.01 | 4.93 (1.64) <.01 | 4.14 (1.45) <.01 |
| a | Var (Slope) | 0.07 (0.16) .66 | 0.07 (0.16) .66 | 0.08 (0.11) .49 | 0.06 (0.10) .49 |
| a | Var (Residual) | 7.12 (1.54) <.01 | 7.11 (1.48) <.01 | 6.21 (1.11) <.01 | 6.21 (1.10) <.01 |
| b | Var (Level) | 1.55 (0.32) <.01 | 1.33 (0.29) <.01 | 1.16 (0.29) <.01 | 1.06 (0.27) <.01 |
| b | Var (Slope) | 0.02 (0.02) .13 | 0.02 (0.02) .13 | 0.02 (0.01) .13 | 0.02 (0.01) .18 |
| b | Var (Residual) | 0.98 (0.13) <.01 | 0.97 (0.13) <.01 | 0.96 (0.14) <.01 | 0.95 (0.14) <.01 |
| a | Covar (Level, Slope) | 0.33 (0.57) .56 | 0.35 (0.58) .54 | 0.14 (0.41) .74 | 0.05 (0.40) .90 |
| b | Covar (Level, Slope) | -0.13 (0.06) .04 | -0.12 (0.06) .05 | -0.10 (0.06) .06 | -0.09 (0.05) .07 |
|  | Correlation of Levels | -0.317 | -0.293 | -0.309 | -0.217 |
|  | Correlation of Slopes | -0.565 | -0.537 | -0.526 | -0.582 |
|  | Correlation of Residuals | -0.046 | -0.047 | -0.032 | -0.044 |
|  | N | 159 | 159 | 139 | 139 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -1,808 | -1,798 | -1,663 | -1,649 |
|  | AIC | 3,657 | 3,646 | 3,384 | 3,380 |
|  | BIC | 3,722 | 3,722 | 3,470 | 3,500 |

## digit\_f

Gender = *male*; Process (a) = *gait*; Process (b) = *digit\_f*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -0.68 (0.39) .08 | -0.62 (0.35) .08 | -0.46 (0.31) .14 | -0.31 (0.32) .33 |
| ab | Covar (Slopes) | -0.02 (0.02) .35 | -0.01 (0.02) .40 | -0.02 (0.01) .22 | -0.01 (0.01) .33 |
| ab | Covar (Residuals) | -0.16 (0.17) .36 | -0.17 (0.16) .28 | -0.09 (0.13) .48 | -0.10 (0.13) .41 |
| er | Corr (Levels) | -0.30 (0.16) .07 | -0.28 (0.16) .08 | -0.23 (0.16) .16 | -0.17 (0.18) .34 |
| er | Corr (Slopes) | -0.54 (0.68) .43 | -0.45 (0.61) .46 | -0.62 (0.60) .31 | -0.56 (0.69) .42 |
| er | Corr (Residuals) | -0.08 (0.08) .34 | -0.09 (0.08) .26 | -0.05 (0.07) .48 | -0.06 (0.07) .41 |
| a | Level | 9.80 (0.47) <.01 | 9.89 (0.49) <.01 | 9.96 (0.45) <.01 | 8.39 (0.58) <.01 |
| a | Slope | 5.70 (0.14) <.01 | 5.64 (0.14) <.01 | 5.67 (0.15) <.01 | 6.02 (0.28) <.01 |
| a | Level \* age | 0.42 (0.13) <.01 | 0.40 (0.13) <.01 | 0.27 (0.11) .01 | 0.30 (0.11) .01 |
| a | Level \* education | --- | -0.08 (0.10) .40 | -0.10 (0.09) .29 | -0.08 (0.09) .39 |
| a | Level \* height | --- | --- | -5.62 (4.54) .22 | -5.13 (4.26) .23 |
| a | Level \* smoking | --- | --- | --- | 1.04 (0.62) .09 |
| a | Level \* cardio | --- | --- | --- | 1.30 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.26 (0.82) .12 |
| a | Slope \* age | -0.02 (0.04) .69 | -0.01 (0.04) .80 | -0.03 (0.03) .35 | -0.01 (0.03) .65 |
| a | Slope \* education | --- | 0.01 (0.03) .72 | -0.00 (0.02) .97 | 0.00 (0.02) .88 |
| a | Slope \* height | --- | --- | 0.37 (0.98) .71 | 0.70 (1.01) .49 |
| a | Slope \* smoking | --- | --- | --- | -0.09 (0.15) .56 |
| a | Slope \* cardio | --- | --- | --- | 0.22 (0.14) .12 |
| a | Slope \* diabetes | --- | --- | --- | 0.08 (0.23) .71 |
| b | Level | 0.37 (0.11) <.01 | 0.36 (0.10) <.01 | 0.38 (0.10) <.01 | 0.31 (0.13) .02 |
| b | Slope | -0.05 (0.03) .10 | -0.06 (0.03) .05 | -0.07 (0.03) .02 | -0.10 (0.06) .12 |
| b | Level \* age | -0.05 (0.03) .10 | -0.04 (0.03) .16 | -0.02 (0.03) .51 | -0.02 (0.03) .46 |
| b | Level \* education | --- | 0.06 (0.02) .02 | 0.06 (0.02) .02 | 0.07 (0.03) .01 |
| b | Level \* height | --- | --- | 1.05 (1.63) .52 | 1.17 (1.65) .48 |
| b | Level \* smoking | --- | --- | --- | -0.47 (0.25) .06 |
| b | Level \* cardio | --- | --- | --- | -0.01 (0.19) .94 |
| b | Level \* diabetes | --- | --- | --- | -0.03 (0.24) .91 |
| b | Slope \* age | -0.02 (0.01) .04 | -0.02 (0.01) .07 | -0.01 (0.01) .10 | -0.01 (0.01) .09 |
| b | Slope \* education | --- | 0.01 (0.01) .12 | 0.01 (0.01) .15 | 0.01 (0.01) .20 |
| b | Slope \* height | --- | --- | -0.32 (0.24) .20 | -0.37 (0.28) .18 |
| b | Slope \* smoking | --- | --- | --- | 0.06 (0.05) .23 |
| b | Slope \* cardio | --- | --- | --- | -0.02 (0.04) .49 |
| b | Slope \* diabetes | --- | --- | --- | -0.00 (0.06) .96 |
| a | Var (Level) | 5.80 (1.95) <.01 | 5.69 (1.88) <.01 | 4.64 (1.54) <.01 | 3.86 (1.35) <.01 |
| a | Var (Slope) | 0.07 (0.16) .66 | 0.07 (0.17) .66 | 0.05 (0.09) .57 | 0.04 (0.07) .60 |
| a | Var (Residual) | 7.15 (1.58) <.01 | 7.10 (1.49) <.01 | 6.38 (1.19) <.01 | 6.37 (1.18) <.01 |
| b | Var (Level) | 0.91 (0.17) <.01 | 0.87 (0.17) <.01 | 0.86 (0.17) <.01 | 0.81 (0.17) <.01 |
| b | Var (Slope) | 0.01 (0.01) .05 | 0.01 (0.01) .04 | 0.01 (0.01) .03 | 0.01 (0.00) .02 |
| b | Var (Residual) | 0.57 (0.08) <.01 | 0.56 (0.08) <.01 | 0.52 (0.08) <.01 | 0.52 (0.08) <.01 |
| a | Covar (Level, Slope) | 0.32 (0.57) .57 | 0.35 (0.58) .54 | 0.20 (0.38) .59 | 0.12 (0.36) .73 |
| b | Covar (Level, Slope) | -0.07 (0.03) .01 | -0.07 (0.03) .01 | -0.08 (0.03) <.01 | -0.07 (0.03) .01 |
|  | Correlation of Levels | -0.296 | -0.278 | -0.23 | -0.175 |
|  | Correlation of Slopes | -0.547 | -0.432 | -0.63 | -0.555 |
|  | Correlation of Residuals | -0.078 | -0.088 | -0.05 | -0.057 |
|  | N | 159 | 159 | 139 | 139 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -1,691 | -1,684 | -1,552 | -1,539 |
|  | AIC | 3,424 | 3,418 | 3,161 | 3,160 |
|  | BIC | 3,489 | 3,494 | 3,246 | 3,281 |

## fig\_logic

Gender = *male*; Process (a) = *gait*; Process (b) = *fig\_logic*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.38 (1.94) .02 | -4.06 (1.90) .03 | -2.79 (1.43) .05 | -2.35 (1.34) .08 |
| ab | Covar (Slopes) | 0.01 (0.08) .85 | 0.02 (0.08) .85 | 0.01 (0.08) .87 | 0.01 (0.08) .87 |
| ab | Covar (Residuals) | -0.50 (0.85) .56 | -0.44 (0.83) .60 | -0.33 (0.72) .65 | -0.46 (0.73) .53 |
| er | Corr (Levels) | -0.56 (0.19) <.01 | -0.54 (0.20) .01 | -0.48 (0.21) .02 | -0.46 (0.23) .04 |
| er | Corr (Slopes) | 0.29 (1.46) .84 | 0.30 (1.46) .84 | 0.25 (1.51) .87 | 0.27 (1.68) .87 |
| er | Corr (Residuals) | -0.06 (0.11) .55 | -0.06 (0.11) .59 | -0.05 (0.10) .64 | -0.06 (0.10) .52 |
| a | Level | 9.94 (0.49) <.01 | 10.03 (0.50) <.01 | 10.00 (0.45) <.01 | 8.47 (0.57) <.01 |
| a | Slope | 15.76 (0.55) <.01 | 15.52 (0.55) <.01 | 15.96 (0.48) <.01 | 17.17 (0.86) <.01 |
| a | Level \* age | 0.38 (0.12) <.01 | 0.36 (0.13) <.01 | 0.26 (0.11) .01 | 0.29 (0.11) .01 |
| a | Level \* education | --- | -0.10 (0.10) .33 | -0.10 (0.09) .29 | -0.08 (0.09) .38 |
| a | Level \* height | --- | --- | -5.96 (4.54) .19 | -5.46 (4.26) .20 |
| a | Level \* smoking | --- | --- | --- | 1.03 (0.60) .09 |
| a | Level \* cardio | --- | --- | --- | 1.25 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.22 (0.82) .14 |
| a | Slope \* age | -0.01 (0.04) .70 | -0.01 (0.04) .77 | -0.02 (0.03) .44 | -0.01 (0.03) .80 |
| a | Slope \* education | --- | 0.01 (0.03) .68 | -0.00 (0.02) .94 | 0.00 (0.02) .90 |
| a | Slope \* height | --- | --- | 0.46 (1.00) .65 | 0.84 (1.01) .40 |
| a | Slope \* smoking | --- | --- | --- | -0.10 (0.14) .47 |
| a | Slope \* cardio | --- | --- | --- | 0.24 (0.14) .09 |
| a | Slope \* diabetes | --- | --- | --- | 0.12 (0.22) .58 |
| b | Level | 0.35 (0.11) <.01 | 0.35 (0.10) <.01 | 0.36 (0.10) <.01 | 0.28 (0.13) .03 |
| b | Slope | -0.05 (0.11) .65 | -0.04 (0.11) .76 | -0.03 (0.11) .78 | 0.08 (0.20) .68 |
| b | Level \* age | -0.16 (0.13) .24 | -0.14 (0.13) .28 | -0.14 (0.12) .25 | -0.13 (0.12) .27 |
| b | Level \* education | --- | 0.31 (0.10) <.01 | 0.29 (0.10) <.01 | 0.34 (0.10) <.01 |
| b | Level \* height | --- | --- | 3.78 (5.09) .46 | 3.74 (4.78) .43 |
| b | Level \* smoking | --- | --- | --- | -1.97 (0.74) .01 |
| b | Level \* cardio | --- | --- | --- | 0.52 (0.68) .44 |
| b | Level \* diabetes | --- | --- | --- | -1.20 (1.26) .34 |
| b | Slope \* age | 0.02 (0.03) .55 | 0.02 (0.03) .57 | 0.02 (0.03) .52 | 0.02 (0.04) .65 |
| b | Slope \* education | --- | -0.02 (0.02) .41 | -0.02 (0.03) .44 | -0.01 (0.03) .81 |
| b | Slope \* height | --- | --- | 0.90 (1.13) .42 | 1.67 (1.18) .16 |
| b | Slope \* smoking | --- | --- | --- | -0.18 (0.16) .24 |
| b | Slope \* cardio | --- | --- | --- | 0.07 (0.15) .64 |
| b | Slope \* diabetes | --- | --- | --- | 0.38 (0.37) .30 |
| a | Var (Level) | 5.88 (1.98) <.01 | 5.77 (1.91) <.01 | 4.73 (1.57) <.01 | 3.98 (1.39) <.01 |
| a | Var (Slope) | 0.06 (0.16) .68 | 0.07 (0.16) .68 | 0.07 (0.11) .52 | 0.06 (0.09) .54 |
| a | Var (Residual) | 7.17 (1.58) <.01 | 7.14 (1.52) <.01 | 6.26 (1.14) <.01 | 6.27 (1.15) <.01 |
| b | Var (Level) | 10.46 (2.55) <.01 | 9.64 (2.38) <.01 | 7.23 (1.76) <.01 | 6.41 (1.85) <.01 |
| b | Var (Slope) | 0.04 (0.08) .56 | 0.04 (0.08) .59 | 0.04 (0.08) .68 | 0.04 (0.10) .69 |
| b | Var (Residual) | 8.28 (1.04) <.01 | 8.26 (1.02) <.01 | 8.19 (1.00) <.01 | 8.26 (1.11) <.01 |
| a | Covar (Level, Slope) | 0.36 (0.56) .52 | 0.38 (0.58) .51 | 0.18 (0.40) .66 | 0.09 (0.38) .81 |
| b | Covar (Level, Slope) | -0.35 (0.36) .33 | -0.30 (0.36) .40 | -0.20 (0.32) .54 | -0.35 (0.35) .32 |
|  | Correlation of Levels | -0.558 | -0.544 | -0.476 | -0.465 |
|  | Correlation of Slopes | 0.280 | 0.298 | 0.261 | 0.274 |
|  | Correlation of Residuals | -0.065 | -0.057 | -0.046 | -0.064 |
|  | N | 149 | 149 | 135 | 135 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,059 | -2,055 | -1,942 | -1,922 |
|  | AIC | 4,159 | 4,161 | 3,942 | 3,927 |
|  | BIC | 4,223 | 4,236 | 4,026 | 4,046 |

## information

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -6.86 (3.30) .04 | -5.34 (2.93) .07 | -3.45 (2.25) .12 | -2.85 (1.95) .14 |
| ab | Covar (Slopes) | -0.08 (0.14) .59 | -0.08 (0.15) .59 | -0.06 (0.11) .61 | -0.02 (0.10) .83 |
| ab | Covar (Residuals) | -0.74 (0.73) .31 | -0.76 (0.72) .29 | -0.79 (0.79) .32 | -0.90 (0.81) .27 |
| er | Corr (Levels) | -0.34 (0.14) .01 | -0.30 (0.14) .03 | -0.22 (0.14) .11 | -0.21 (0.14) .13 |
| er | Corr (Slopes) | -0.34 (0.54) .53 | -0.37 (0.56) .50 | -0.30 (0.51) .56 | -0.14 (0.60) .82 |
| er | Corr (Residuals) | -0.08 (0.08) .30 | -0.08 (0.08) .29 | -0.09 (0.09) .31 | -0.11 (0.09) .25 |
| a | Level | 9.79 (0.47) <.01 | 9.87 (0.49) <.01 | 9.92 (0.45) <.01 | 8.39 (0.57) <.01 |
| a | Slope | 34.20 (1.12) <.01 | 33.23 (1.01) <.01 | 33.69 (1.15) <.01 | 35.42 (1.79) <.01 |
| a | Level \* age | 0.41 (0.12) <.01 | 0.40 (0.13) <.01 | 0.28 (0.11) .01 | 0.31 (0.11) <.01 |
| a | Level \* education | --- | -0.09 (0.10) .35 | -0.10 (0.09) .31 | -0.08 (0.09) .41 |
| a | Level \* height | --- | --- | -6.37 (4.56) .16 | -5.78 (4.25) .17 |
| a | Level \* smoking | --- | --- | --- | 1.00 (0.60) .10 |
| a | Level \* cardio | --- | --- | --- | 1.28 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.31 (0.82) .11 |
| a | Slope \* age | -0.01 (0.04) .71 | -0.01 (0.04) .79 | -0.02 (0.03) .45 | -0.01 (0.03) .82 |
| a | Slope \* education | --- | 0.01 (0.03) .65 | 0.00 (0.03) .98 | 0.00 (0.03) .85 |
| a | Slope \* height | --- | --- | 0.36 (1.16) .76 | 0.81 (1.14) .48 |
| a | Slope \* smoking | --- | --- | --- | -0.06 (0.14) .64 |
| a | Slope \* cardio | --- | --- | --- | 0.23 (0.15) .11 |
| a | Slope \* diabetes | --- | --- | --- | 0.21 (0.23) .37 |
| b | Level | 0.37 (0.11) <.01 | 0.36 (0.11) <.01 | 0.38 (0.10) <.01 | 0.27 (0.13) .03 |
| b | Slope | -0.50 (0.17) <.01 | -0.54 (0.17) <.01 | -0.49 (0.17) <.01 | -0.06 (0.31) .85 |
| b | Level \* age | -0.54 (0.31) .09 | -0.46 (0.28) .10 | -0.35 (0.30) .24 | -0.34 (0.31) .26 |
| b | Level \* education | --- | 1.20 (0.17) <.01 | 0.98 (0.18) <.01 | 1.04 (0.17) <.01 |
| b | Level \* height | --- | --- | 19.39 (11.48) .09 | 18.84 (11.06) .09 |
| b | Level \* smoking | --- | --- | --- | -2.82 (1.73) .10 |
| b | Level \* cardio | --- | --- | --- | 1.09 (1.36) .42 |
| b | Level \* diabetes | --- | --- | --- | -2.71 (1.66) .10 |
| b | Slope \* age | -0.01 (0.06) .89 | 0.00 (0.06) .98 | -0.01 (0.06) .84 | -0.03 (0.07) .66 |
| b | Slope \* education | --- | 0.02 (0.03) .47 | 0.02 (0.03) .42 | 0.02 (0.03) .34 |
| b | Slope \* height | --- | --- | 0.23 (2.01) .91 | 0.32 (2.10) .88 |
| b | Slope \* smoking | --- | --- | --- | -0.31 (0.25) .21 |
| b | Slope \* cardio | --- | --- | --- | -0.26 (0.24) .28 |
| b | Slope \* diabetes | --- | --- | --- | -0.38 (0.64) .55 |
| a | Var (Level) | 5.79 (1.94) <.01 | 5.67 (1.91) <.01 | 4.58 (1.53) <.01 | 3.81 (1.36) <.01 |
| a | Var (Slope) | 0.07 (0.15) .63 | 0.07 (0.15) .63 | 0.06 (0.10) .55 | 0.04 (0.08) .57 |
| a | Var (Residual) | 7.11 (1.53) <.01 | 7.08 (1.48) <.01 | 6.33 (1.16) <.01 | 6.32 (1.16) <.01 |
| b | Var (Level) | 70.06 (8.71) <.01 | 56.70 (7.76) <.01 | 52.07 (7.90) <.01 | 50.05 (8.08) <.01 |
| b | Var (Slope) | 0.66 (0.18) <.01 | 0.66 (0.18) <.01 | 0.60 (0.17) <.01 | 0.54 (0.16) <.01 |
| b | Var (Residual) | 11.29 (1.34) <.01 | 11.29 (1.35) <.01 | 11.21 (1.42) <.01 | 11.21 (1.42) <.01 |
| a | Covar (Level, Slope) | 0.39 (0.55) .47 | 0.42 (0.58) .47 | 0.26 (0.38) .50 | 0.16 (0.37) .66 |
| b | Covar (Level, Slope) | 0.49 (0.73) .50 | 0.24 (0.79) .76 | 0.17 (0.73) .82 | -0.06 (0.73) .93 |
|  | Correlation of Levels | -0.341 | -0.298 | -0.223 | -0.21 |
|  | Correlation of Slopes | -0.346 | -0.370 | -0.299 | -0.13 |
|  | Correlation of Residuals | -0.083 | -0.085 | -0.094 | -0.11 |
|  | N | 158 | 158 | 140 | 140 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,495 | -2,480 | -2,295 | -2,281 |
|  | AIC | 5,032 | 5,011 | 4,649 | 4,643 |
|  | BIC | 5,096 | 5,087 | 4,734 | 4,764 |

## mir

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -2.73 (0.81) <.01 | -2.63 (0.80) <.01 | -1.95 (0.64) <.01 | -1.69 (0.60) <.01 |
| ab | Covar (Slopes) | -0.01 (0.04) .77 | -0.01 (0.04) .75 | -0.01 (0.04) .71 | -0.01 (0.04) .70 |
| ab | Covar (Residuals) | -0.30 (0.33) .36 | -0.28 (0.32) .38 | -0.19 (0.29) .51 | -0.18 (0.30) .54 |
| er | Corr (Levels) | -0.68 (0.13) <.01 | -0.67 (0.14) <.01 | -0.61 (0.15) <.01 | -0.57 (0.16) <.01 |
| er | Corr (Slopes) | -0.14 (0.48) .77 | -0.15 (0.47) .75 | -0.17 (0.46) .70 | -0.18 (0.47) .70 |
| er | Corr (Residuals) | -0.08 (0.09) .35 | -0.07 (0.08) .37 | -0.05 (0.08) .51 | -0.05 (0.08) .54 |
| a | Level | 9.93 (0.48) <.01 | 10.07 (0.50) <.01 | 10.07 (0.46) <.01 | 8.66 (0.57) <.01 |
| a | Slope | 7.03 (0.27) <.01 | 6.92 (0.28) <.01 | 6.95 (0.27) <.01 | 7.33 (0.45) <.01 |
| a | Level \* age | 0.39 (0.13) <.01 | 0.36 (0.13) <.01 | 0.24 (0.11) .03 | 0.27 (0.11) .01 |
| a | Level \* education | --- | -0.14 (0.10) .17 | -0.12 (0.09) .20 | -0.10 (0.10) .29 |
| a | Level \* height | --- | --- | -6.01 (4.51) .18 | -5.61 (4.24) .18 |
| a | Level \* smoking | --- | --- | --- | 0.89 (0.61) .15 |
| a | Level \* cardio | --- | --- | --- | 1.29 (0.56) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.00 (0.83) .23 |
| a | Slope \* age | -0.01 (0.04) .74 | -0.01 (0.04) .81 | -0.02 (0.03) .53 | -0.00 (0.03) .98 |
| a | Slope \* education | --- | 0.01 (0.03) .64 | 0.00 (0.03) .94 | 0.01 (0.03) .82 |
| a | Slope \* height | --- | --- | 0.33 (1.07) .76 | 0.67 (1.08) .54 |
| a | Slope \* smoking | --- | --- | --- | -0.05 (0.13) .71 |
| a | Slope \* cardio | --- | --- | --- | 0.25 (0.14) .09 |
| a | Slope \* diabetes | --- | --- | --- | 0.14 (0.23) .55 |
| b | Level | 0.35 (0.11) <.01 | 0.33 (0.11) <.01 | 0.34 (0.10) <.01 | 0.21 (0.14) .13 |
| b | Slope | -0.09 (0.07) .19 | -0.08 (0.07) .22 | -0.06 (0.07) .38 | 0.06 (0.10) .59 |
| b | Level \* age | -0.27 (0.08) <.01 | -0.25 (0.07) <.01 | -0.21 (0.07) <.01 | -0.21 (0.08) <.01 |
| b | Level \* education | --- | 0.10 (0.05) .03 | 0.08 (0.05) .09 | 0.08 (0.05) .12 |
| b | Level \* height | --- | --- | -0.13 (2.98) .97 | -0.14 (3.03) .96 |
| b | Level \* smoking | --- | --- | --- | -0.25 (0.43) .56 |
| b | Level \* cardio | --- | --- | --- | -0.38 (0.32) .24 |
| b | Level \* diabetes | --- | --- | --- | -0.04 (0.55) .94 |
| b | Slope \* age | -0.02 (0.02) .45 | -0.02 (0.02) .45 | -0.02 (0.02) .31 | -0.03 (0.02) .19 |
| b | Slope \* education | --- | -0.01 (0.02) .72 | -0.00 (0.02) .79 | -0.01 (0.02) .69 |
| b | Slope \* height | --- | --- | -0.05 (0.72) .95 | 0.07 (0.75) .92 |
| b | Slope \* smoking | --- | --- | --- | -0.07 (0.09) .46 |
| b | Slope \* cardio | --- | --- | --- | -0.13 (0.10) .19 |
| b | Slope \* diabetes | --- | --- | --- | 0.14 (0.13) .29 |
| a | Var (Level) | 6.49 (2.22) <.01 | 6.33 (2.15) <.01 | 5.12 (1.67) <.01 | 4.36 (1.49) <.01 |
| a | Var (Slope) | 0.09 (0.18) .62 | 0.09 (0.19) .63 | 0.10 (0.13) .45 | 0.08 (0.10) .44 |
| a | Var (Residual) | 6.93 (1.51) <.01 | 6.91 (1.43) <.01 | 6.07 (1.05) <.01 | 6.09 (1.04) <.01 |
| b | Var (Level) | 2.53 (0.51) <.01 | 2.45 (0.50) <.01 | 2.02 (0.42) <.01 | 1.99 (0.41) <.01 |
| b | Var (Slope) | 0.08 (0.02) <.01 | 0.08 (0.02) <.01 | 0.07 (0.02) <.01 | 0.07 (0.02) <.01 |
| b | Var (Residual) | 2.08 (0.22) <.01 | 2.07 (0.22) <.01 | 1.99 (0.22) <.01 | 1.96 (0.22) <.01 |
| a | Covar (Level, Slope) | 0.27 (0.62) .66 | 0.29 (0.64) .65 | 0.10 (0.42) .81 | 0.00 (0.41) .99 |
| b | Covar (Level, Slope) | 0.02 (0.09) .81 | 0.02 (0.09) .77 | 0.04 (0.08) .62 | -0.00 (0.08) .95 |
|  | Correlation of Levels | -0.68 | -0.669 | -0.607 | -0.575 |
|  | Correlation of Slopes | -0.14 | -0.151 | -0.172 | -0.173 |
|  | Correlation of Residuals | -0.08 | -0.075 | -0.054 | -0.052 |
|  | N | 153 | 153 | 137 | 137 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -1,929 | -1,927 | -1,799 | -1,787 |
|  | AIC | 3,900 | 3,903 | 3,656 | 3,656 |
|  | BIC | 3,963 | 3,979 | 3,740 | 3,775 |

## mir\_recog

Gender = *male*; Process (a) = *gait*; Process (b) = *mir\_recog*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -1.39 (0.96) .15 | -1.29 (0.95) .17 | -0.65 (0.62) .30 | -0.54 (0.58) .35 |
| ab | Covar (Slopes) | -0.00 (0.03) .94 | -0.00 (0.03) .93 | -0.00 (0.02) .78 | -0.01 (0.02) .69 |
| ab | Covar (Residuals) | -0.68 (0.32) .04 | -0.67 (0.31) .03 | -0.38 (0.17) .03 | -0.36 (0.18) .04 |
| er | Corr (Levels) | -0.49 (0.26) .05 | -0.47 (0.26) .07 | -0.36 (0.29) .20 | -0.33 (0.30) .27 |
| er | Corr (Slopes) | -0.09 (1.20) .94 | -0.11 (1.17) .92 | -0.21 (0.70) .76 | -0.32 (0.74) .66 |
| er | Corr (Residuals) | -0.19 (0.07) .01 | -0.19 (0.07) .01 | -0.12 (0.05) .01 | -0.12 (0.05) .02 |
| a | Level | 9.80 (0.49) <.01 | 9.91 (0.50) <.01 | 9.97 (0.45) <.01 | 8.49 (0.58) <.01 |
| a | Slope | 10.06 (0.20) <.01 | 9.99 (0.19) <.01 | 10.05 (0.13) <.01 | 10.09 (0.18) <.01 |
| a | Level \* age | 0.45 (0.14) <.01 | 0.43 (0.14) <.01 | 0.28 (0.11) .01 | 0.30 (0.11) .01 |
| a | Level \* education | --- | -0.10 (0.10) .31 | -0.10 (0.09) .28 | -0.08 (0.10) .41 |
| a | Level \* height | --- | --- | -6.29 (4.58) .17 | -5.61 (4.24) .18 |
| a | Level \* smoking | --- | --- | --- | 0.89 (0.62) .15 |
| a | Level \* cardio | --- | --- | --- | 1.38 (0.56) .01 |
| a | Level \* diabetes | --- | --- | --- | 1.18 (0.83) .15 |
| a | Slope \* age | -0.02 (0.03) .65 | -0.01 (0.04) .70 | -0.02 (0.03) .46 | -0.01 (0.03) .85 |
| a | Slope \* education | --- | 0.01 (0.03) .77 | -0.00 (0.03) .89 | -0.00 (0.03) .98 |
| a | Slope \* height | --- | --- | 0.42 (0.99) .67 | 0.70 (0.98) .48 |
| a | Slope \* smoking | --- | --- | --- | -0.04 (0.13) .78 |
| a | Slope \* cardio | --- | --- | --- | 0.20 (0.14) .17 |
| a | Slope \* diabetes | --- | --- | --- | 0.13 (0.23) .58 |
| b | Level | 0.36 (0.11) <.01 | 0.35 (0.11) <.01 | 0.36 (0.10) <.01 | 0.25 (0.13) .06 |
| b | Slope | -0.11 (0.04) .01 | -0.10 (0.04) .01 | -0.09 (0.04) .02 | -0.12 (0.08) .12 |
| b | Level \* age | -0.18 (0.08) .03 | -0.17 (0.08) .03 | -0.14 (0.06) .03 | -0.14 (0.06) .02 |
| b | Level \* education | --- | 0.07 (0.03) .04 | 0.05 (0.03) .11 | 0.05 (0.03) .17 |
| b | Level \* height | --- | --- | 2.20 (1.50) .14 | 2.36 (1.50) .12 |
| b | Level \* smoking | --- | --- | --- | 0.06 (0.28) .82 |
| b | Level \* cardio | --- | --- | --- | -0.22 (0.24) .36 |
| b | Level \* diabetes | --- | --- | --- | 0.38 (0.19) .05 |
| b | Slope \* age | 0.01 (0.02) .37 | 0.01 (0.02) .38 | 0.01 (0.01) .35 | 0.01 (0.01) .32 |
| b | Slope \* education | --- | -0.01 (0.01) .47 | -0.00 (0.01) .55 | -0.01 (0.01) .33 |
| b | Slope \* height | --- | --- | -0.20 (0.44) .65 | -0.29 (0.42) .49 |
| b | Slope \* smoking | --- | --- | --- | 0.06 (0.07) .40 |
| b | Slope \* cardio | --- | --- | --- | -0.03 (0.06) .61 |
| b | Slope \* diabetes | --- | --- | --- | 0.04 (0.06) .46 |
| a | Var (Level) | 6.58 (2.41) .01 | 6.42 (2.37) .01 | 5.06 (1.71) <.01 | 4.25 (1.53) .01 |
| a | Var (Slope) | 0.06 (0.15) .67 | 0.07 (0.16) .68 | 0.07 (0.12) .52 | 0.07 (0.10) .50 |
| a | Var (Residual) | 7.19 (1.61) <.01 | 7.19 (1.55) <.01 | 6.26 (1.16) <.01 | 6.24 (1.14) <.01 |
| b | Var (Level) | 1.20 (0.89) .18 | 1.16 (0.89) .19 | 0.63 (0.70) .37 | 0.60 (0.70) .39 |
| b | Var (Slope) | 0.01 (0.02) .68 | 0.01 (0.02) .70 | 0.01 (0.01) .56 | 0.01 (0.02) .56 |
| b | Var (Residual) | 1.82 (0.56) <.01 | 1.81 (0.56) <.01 | 1.56 (0.52) <.01 | 1.55 (0.53) <.01 |
| a | Covar (Level, Slope) | 0.25 (0.66) .71 | 0.26 (0.71) .71 | 0.09 (0.44) .83 | 0.00 (0.44) .99 |
| b | Covar (Level, Slope) | 0.03 (0.15) .83 | 0.04 (0.15) .82 | 0.00 (0.11) .97 | -0.00 (0.12) .99 |
|  | Correlation of Levels | -0.494 | -0.475 | -0.36 | -0.33 |
|  | Correlation of Slopes | -0.094 | -0.093 | -0.19 | -0.31 |
|  | Correlation of Residuals | -0.189 | -0.186 | -0.12 | -0.12 |
|  | N | 153 | 153 | 137 | 137 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -1,852 | -1,851 | -1,699 | -1,686 |
|  | AIC | 3,747 | 3,752 | 3,456 | 3,455 |
|  | BIC | 3,811 | 3,828 | 3,541 | 3,574 |

## mmse

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -5.83 (3.44) .09 | -5.60 (3.38) .10 | -1.81 (1.03) .08 | -1.56 (0.96) .10 |
| ab | Covar (Slopes) | -0.04 (0.17) .83 | -0.04 (0.15) .78 | -0.04 (0.04) .40 | -0.03 (0.04) .48 |
| ab | Covar (Residuals) | -0.85 (0.65) .19 | -0.89 (0.64) .17 | -0.91 (0.59) .12 | -0.84 (0.55) .13 |
| er | Corr (Levels) | -0.67 (0.22) <.01 | -0.66 (0.23) <.01 | -0.52 (0.28) .06 | -0.48 (0.30) .11 |
| er | Corr (Slopes) | -0.35 (1.83) .85 | -0.38 (1.54) .80 | -0.56 (0.69) .42 | -0.42 (0.61) .49 |
| er | Corr (Residuals) | -0.11 (0.08) .18 | -0.12 (0.08) .16 | -0.13 (0.08) .11 | -0.12 (0.08) .12 |
| a | Level | 9.98 (0.52) <.01 | 10.07 (0.53) <.01 | 9.97 (0.46) <.01 | 8.41 (0.57) <.01 |
| a | Slope | 28.17 (0.41) <.01 | 27.99 (0.40) <.01 | 28.31 (0.34) <.01 | 28.81 (0.52) <.01 |
| a | Level \* age | 0.48 (0.14) <.01 | 0.47 (0.15) <.01 | 0.29 (0.11) .01 | 0.31 (0.11) <.01 |
| a | Level \* education | --- | -0.10 (0.10) .34 | -0.09 (0.10) .32 | -0.07 (0.10) .44 |
| a | Level \* height | --- | --- | -5.41 (4.49) .23 | -4.94 (4.22) .24 |
| a | Level \* smoking | --- | --- | --- | 0.98 (0.61) .11 |
| a | Level \* cardio | --- | --- | --- | 1.35 (0.56) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.37 (0.80) .09 |
| a | Slope \* age | -0.01 (0.04) .69 | -0.01 (0.04) .79 | -0.02 (0.03) .46 | -0.00 (0.03) .88 |
| a | Slope \* education | --- | 0.01 (0.04) .80 | -0.00 (0.02) .93 | 0.00 (0.02) .93 |
| a | Slope \* height | --- | --- | 0.37 (0.99) .71 | 0.78 (1.01) .44 |
| a | Slope \* smoking | --- | --- | --- | -0.07 (0.13) .60 |
| a | Slope \* cardio | --- | --- | --- | 0.23 (0.14) .11 |
| a | Slope \* diabetes | --- | --- | --- | 0.20 (0.22) .37 |
| b | Level | 0.40 (0.15) .01 | 0.40 (0.16) .01 | 0.39 (0.10) <.01 | 0.29 (0.13) .03 |
| b | Slope | -0.32 (0.13) .01 | -0.34 (0.13) .01 | -0.23 (0.11) .04 | -0.14 (0.14) .32 |
| b | Level \* age | -0.44 (0.15) <.01 | -0.42 (0.15) .01 | -0.26 (0.11) .02 | -0.26 (0.12) .02 |
| b | Level \* education | --- | 0.17 (0.06) .01 | 0.14 (0.06) .03 | 0.14 (0.07) .03 |
| b | Level \* height | --- | --- | 3.43 (2.99) .25 | 3.21 (3.03) .29 |
| b | Level \* smoking | --- | --- | --- | -0.49 (0.49) .32 |
| b | Level \* cardio | --- | --- | --- | -0.05 (0.50) .93 |
| b | Level \* diabetes | --- | --- | --- | -1.12 (0.92) .22 |
| b | Slope \* age | -0.06 (0.04) .15 | -0.05 (0.04) .18 | -0.06 (0.04) .08 | -0.06 (0.04) .08 |
| b | Slope \* education | --- | 0.02 (0.02) .29 | 0.01 (0.02) .63 | 0.01 (0.02) .64 |
| b | Slope \* height | --- | --- | -0.50 (0.87) .56 | -0.41 (0.86) .63 |
| b | Slope \* smoking | --- | --- | --- | -0.07 (0.13) .59 |
| b | Slope \* cardio | --- | --- | --- | -0.06 (0.13) .64 |
| b | Slope \* diabetes | --- | --- | --- | -0.04 (0.27) .89 |
| a | Var (Level) | 7.86 (3.75) .04 | 7.69 (3.66) .04 | 4.72 (1.53) <.01 | 4.16 (1.43) <.01 |
| a | Var (Slope) | 0.06 (0.16) .71 | 0.07 (0.17) .69 | 0.04 (0.09) .62 | 0.05 (0.09) .54 |
| a | Var (Residual) | 7.21 (1.58) <.01 | 7.18 (1.51) <.01 | 6.48 (1.18) <.01 | 6.31 (1.12) <.01 |
| b | Var (Level) | 9.61 (4.32) .03 | 9.25 (4.27) .03 | 2.58 (1.78) .15 | 2.57 (1.76) .14 |
| b | Var (Slope) | 0.18 (0.12) .11 | 0.17 (0.11) .10 | 0.10 (0.06) .08 | 0.10 (0.06) .09 |
| b | Var (Residual) | 8.01 (1.52) <.01 | 8.02 (1.53) <.01 | 7.30 (1.56) <.01 | 7.24 (1.54) <.01 |
| a | Covar (Level, Slope) | 0.46 (0.95) .62 | 0.50 (0.94) .59 | 0.28 (0.37) .44 | 0.13 (0.39) .74 |
| b | Covar (Level, Slope) | 1.09 (0.70) .12 | 1.02 (0.70) .14 | 0.22 (0.33) .51 | 0.18 (0.33) .59 |
|  | Correlation of Levels | -0.67 | -0.66 | -0.52 | -0.48 |
|  | Correlation of Slopes | -0.36 | -0.38 | -0.56 | -0.42 |
|  | Correlation of Residuals | -0.11 | -0.12 | -0.13 | -0.12 |
|  | N | 164 | 164 | 140 | 140 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,422 | -2,420 | -2,135 | -2,122 |
|  | AIC | 4,886 | 4,889 | 4,327 | 4,327 |
|  | BIC | 4,951 | 4,967 | 4,413 | 4,448 |

## prose\_im

Gender = *male*; Process (a) = *gait*; Process (b) = *prose\_im*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.01 (1.79) .02 | -3.41 (1.65) .04 | -2.87 (1.46) .05 | --- |
| ab | Covar (Slopes) | -0.03 (0.20) .87 | -0.03 (0.21) .88 | -0.01 (0.14) .95 | --- |
| ab | Covar (Residuals) | 0.62 (0.76) .42 | 0.61 (0.74) .41 | 0.70 (0.77) .36 | --- |
| er | Corr (Levels) | -0.44 (0.18) .01 | -0.42 (0.18) .02 | -0.40 (0.20) .04 | --- |
| er | Corr (Slopes) | -0.67 (2.71) .81 | -0.65 (2.90) .82 | -0.19 (2.96) .95 | --- |
| er | Corr (Residuals) | 0.11 (0.14) .41 | 0.11 (0.13) .41 | 0.14 (0.15) .34 | --- |
| a | Level | 9.86 (0.48) <.01 | 9.96 (0.50) <.01 | 9.95 (0.45) <.01 | --- |
| a | Slope | 10.47 (0.58) <.01 | 9.98 (0.54) <.01 | 10.19 (0.58) <.01 | --- |
| a | Level \* age | 0.42 (0.13) <.01 | 0.41 (0.13) <.01 | 0.29 (0.11) .01 | --- |
| a | Level \* education | --- | -0.11 (0.10) .28 | -0.10 (0.10) .29 | --- |
| a | Level \* height | --- | --- | -6.33 (4.62) .17 | --- |
| a | Level \* smoking | --- | --- | --- | --- |
| a | Level \* cardio | --- | --- | --- | --- |
| a | Level \* diabetes | --- | --- | --- | --- |
| a | Slope \* age | -0.01 (0.04) .77 | -0.01 (0.05) .85 | -0.02 (0.04) .51 | --- |
| a | Slope \* education | --- | 0.01 (0.03) .66 | 0.00 (0.03) .96 | --- |
| a | Slope \* height | --- | --- | 0.29 (1.13) .80 | --- |
| a | Slope \* smoking | --- | --- | --- | --- |
| a | Slope \* cardio | --- | --- | --- | --- |
| a | Slope \* diabetes | --- | --- | --- | --- |
| b | Level | 0.36 (0.11) <.01 | 0.36 (0.10) <.01 | 0.37 (0.10) <.01 | --- |
| b | Slope | -0.15 (0.10) .13 | -0.14 (0.10) .16 | -0.11 (0.10) .29 | --- |
| b | Level \* age | -0.32 (0.14) .02 | -0.28 (0.13) .03 | -0.24 (0.15) .10 | --- |
| b | Level \* education | --- | 0.48 (0.08) <.01 | 0.42 (0.09) <.01 | --- |
| b | Level \* height | --- | --- | 0.13 (5.96) .98 | --- |
| b | Level \* smoking | --- | --- | --- | --- |
| b | Level \* cardio | --- | --- | --- | --- |
| b | Level \* diabetes | --- | --- | --- | --- |
| b | Slope \* age | 0.00 (0.04) .95 | 0.00 (0.04) .93 | 0.01 (0.05) .85 | --- |
| b | Slope \* education | --- | -0.01 (0.02) .48 | -0.01 (0.02) .52 | --- |
| b | Slope \* height | --- | --- | 0.94 (0.69) .17 | --- |
| b | Slope \* smoking | --- | --- | --- | --- |
| b | Slope \* cardio | --- | --- | --- | --- |
| b | Slope \* diabetes | --- | --- | --- | --- |
| a | Var (Level) | 6.04 (2.02) <.01 | 5.90 (1.93) <.01 | 4.97 (1.64) <.01 | --- |
| a | Var (Slope) | 0.06 (0.14) .66 | 0.07 (0.16) .67 | 0.08 (0.13) .56 | --- |
| a | Var (Residual) | 7.10 (1.57) <.01 | 7.07 (1.51) <.01 | 6.19 (1.15) <.01 | --- |
| b | Var (Level) | 13.59 (2.12) <.01 | 11.10 (2.11) <.01 | 10.52 (2.20) <.01 | --- |
| b | Var (Slope) | 0.04 (0.16) .81 | 0.04 (0.16) .82 | 0.03 (0.15) .86 | --- |
| b | Var (Residual) | 4.26 (0.72) <.01 | 4.27 (0.72) <.01 | 4.12 (0.81) <.01 | --- |
| a | Covar (Level, Slope) | 0.37 (0.59) .54 | 0.40 (0.60) .51 | 0.14 (0.40) .73 | --- |
| b | Covar (Level, Slope) | -0.14 (0.38) .71 | -0.07 (0.34) .84 | -0.12 (0.35) .73 | --- |
|  | Correlation of Levels | -0.44 | -0.42 | -0.40 | NaN |
|  | Correlation of Slopes | -0.66 | -0.66 | -0.18 | NaN |
|  | Correlation of Residuals | 0.11 | 0.11 | 0.14 | NaN |
|  | N | 157 | 157 | 139 | NA |
|  | occasions | 5 | 5 | 5 | NA |
|  | parameters | 21 | 25 | 29 | NA |
|  | LL | -1,968 | -1,956 | -1,806 | NA |
|  | AIC | 3,978 | 3,962 | 3,669 | NA |
|  | BIC | 4,042 | 4,038 | 3,755 | NA |

## psif

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | --- | --- | --- | --- |
| ab | Covar (Slopes) | --- | --- | --- | --- |
| ab | Covar (Residuals) | --- | --- | --- | --- |
| er | Corr (Levels) | --- | --- | --- | --- |
| er | Corr (Slopes) | --- | --- | --- | --- |
| er | Corr (Residuals) | --- | --- | --- | --- |
| a | Level | --- | --- | --- | --- |
| a | Slope | --- | --- | --- | --- |
| a | Level \* age | --- | --- | --- | --- |
| a | Level \* education | --- | --- | --- | --- |
| a | Level \* height | --- | --- | --- | --- |
| a | Level \* smoking | --- | --- | --- | --- |
| a | Level \* cardio | --- | --- | --- | --- |
| a | Level \* diabetes | --- | --- | --- | --- |
| a | Slope \* age | --- | --- | --- | --- |
| a | Slope \* education | --- | --- | --- | --- |
| a | Slope \* height | --- | --- | --- | --- |
| a | Slope \* smoking | --- | --- | --- | --- |
| a | Slope \* cardio | --- | --- | --- | --- |
| a | Slope \* diabetes | --- | --- | --- | --- |
| b | Level | --- | --- | --- | --- |
| b | Slope | --- | --- | --- | --- |
| b | Level \* age | --- | --- | --- | --- |
| b | Level \* education | --- | --- | --- | --- |
| b | Level \* height | --- | --- | --- | --- |
| b | Level \* smoking | --- | --- | --- | --- |
| b | Level \* cardio | --- | --- | --- | --- |
| b | Level \* diabetes | --- | --- | --- | --- |
| b | Slope \* age | --- | --- | --- | --- |
| b | Slope \* education | --- | --- | --- | --- |
| b | Slope \* height | --- | --- | --- | --- |
| b | Slope \* smoking | --- | --- | --- | --- |
| b | Slope \* cardio | --- | --- | --- | --- |
| b | Slope \* diabetes | --- | --- | --- | --- |
| a | Var (Level) | --- | --- | --- | --- |
| a | Var (Slope) | --- | --- | --- | --- |
| a | Var (Residual) | --- | --- | --- | --- |
| b | Var (Level) | --- | --- | --- | --- |
| b | Var (Slope) | --- | --- | --- | --- |
| b | Var (Residual) | --- | --- | --- | --- |
| a | Covar (Level, Slope) | --- | --- | --- | --- |
| b | Covar (Level, Slope) | --- | --- | --- | --- |
|  | Correlation of Levels | NaN | NaN | NaN | NaN |
|  | Correlation of Slopes | NaN | NaN | NaN | NaN |
|  | Correlation of Residuals | NaN | NaN | NaN | NaN |
|  | N | NA | NA | NA | NA |
|  | occasions | NA | NA | NA | NA |
|  | parameters | NA | NA | NA | NA |
|  | LL | NA | NA | NA | NA |
|  | AIC | NA | NA | NA | NA |
|  | BIC | NA | NA | NA | NA |

## symbol

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -12.91 (3.86) <.01 | -11.55 (3.43) <.01 | -9.95 (3.12) <.01 | -7.59 (2.82) .01 |
| ab | Covar (Slopes) | -0.03 (0.16) .86 | -0.02 (0.15) .89 | -0.01 (0.13) .93 | 0.00 (0.11) .99 |
| ab | Covar (Residuals) | -2.96 (1.31) .02 | -2.99 (1.26) .02 | -2.44 (1.12) .03 | -2.51 (1.15) .03 |
| er | Corr (Levels) | -0.53 (0.11) <.01 | -0.54 (0.12) <.01 | -0.51 (0.13) <.01 | -0.46 (0.14) <.01 |
| er | Corr (Slopes) | -0.16 (0.81) .84 | -0.13 (0.84) .88 | -0.09 (0.90) .92 | 0.00 (1.01) .99 |
| er | Corr (Residuals) | -0.26 (0.10) .01 | -0.26 (0.09) <.01 | -0.23 (0.09) .01 | -0.23 (0.09) .01 |
| a | Level | 9.86 (0.47) <.01 | 9.94 (0.49) <.01 | 9.99 (0.45) <.01 | 8.53 (0.58) <.01 |
| a | Slope | 26.97 (1.57) <.01 | 25.61 (1.35) <.01 | 25.98 (1.39) <.01 | 31.53 (2.46) <.01 |
| a | Level \* age | 0.40 (0.12) <.01 | 0.38 (0.13) <.01 | 0.27 (0.11) .01 | 0.30 (0.11) .01 |
| a | Level \* education | --- | -0.08 (0.10) .42 | -0.10 (0.10) .28 | -0.08 (0.10) .38 |
| a | Level \* height | --- | --- | -5.97 (4.56) .19 | -5.70 (4.24) .18 |
| a | Level \* smoking | --- | --- | --- | 0.91 (0.61) .14 |
| a | Level \* cardio | --- | --- | --- | 1.30 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.11 (0.83) .18 |
| a | Slope \* age | -0.01 (0.04) .69 | -0.01 (0.04) .80 | -0.02 (0.04) .49 | -0.01 (0.03) .74 |
| a | Slope \* education | --- | 0.01 (0.03) .66 | 0.00 (0.03) .97 | 0.01 (0.02) .79 |
| a | Slope \* height | --- | --- | 0.50 (1.07) .64 | 0.96 (1.05) .36 |
| a | Slope \* smoking | --- | --- | --- | -0.10 (0.14) .46 |
| a | Slope \* cardio | --- | --- | --- | 0.22 (0.14) .13 |
| a | Slope \* diabetes | --- | --- | --- | 0.11 (0.22) .62 |
| b | Level | 0.37 (0.11) <.01 | 0.36 (0.11) <.01 | 0.38 (0.10) <.01 | 0.32 (0.14) .02 |
| b | Slope | -0.54 (0.19) <.01 | -0.52 (0.19) .01 | -0.59 (0.19) <.01 | -0.64 (0.34) .06 |
| b | Level \* age | -0.77 (0.40) .05 | -0.61 (0.37) .10 | -0.55 (0.40) .17 | -0.63 (0.41) .12 |
| b | Level \* education | --- | 1.51 (0.25) <.01 | 1.56 (0.25) <.01 | 1.65 (0.25) <.01 |
| b | Level \* height | --- | --- | 22.77 (12.49) .07 | 23.14 (12.03) .05 |
| b | Level \* smoking | --- | --- | --- | -6.12 (2.38) .01 |
| b | Level \* cardio | --- | --- | --- | -1.47 (1.89) .44 |
| b | Level \* diabetes | --- | --- | --- | -2.58 (2.26) .25 |
| b | Slope \* age | 0.03 (0.07) .68 | 0.03 (0.07) .66 | 0.06 (0.07) .34 | 0.05 (0.07) .45 |
| b | Slope \* education | --- | 0.00 (0.05) .97 | 0.03 (0.04) .44 | 0.02 (0.04) .56 |
| b | Slope \* height | --- | --- | -2.19 (1.78) .22 | -2.31 (1.89) .22 |
| b | Slope \* smoking | --- | --- | --- | 0.22 (0.31) .48 |
| b | Slope \* cardio | --- | --- | --- | -0.16 (0.27) .54 |
| b | Slope \* diabetes | --- | --- | --- | -0.09 (0.45) .85 |
| a | Var (Level) | 5.64 (1.89) <.01 | 5.61 (1.84) <.01 | 4.61 (1.53) <.01 | 3.85 (1.35) <.01 |
| a | Var (Slope) | 0.06 (0.14) .69 | 0.06 (0.14) .67 | 0.05 (0.09) .57 | 0.04 (0.07) .61 |
| a | Var (Residual) | 7.24 (1.59) <.01 | 7.20 (1.51) <.01 | 6.38 (1.18) <.01 | 6.38 (1.18) <.01 |
| b | Var (Level) | 103.96 (14.49) <.01 | 83.18 (13.00) <.01 | 81.30 (13.13) <.01 | 71.50 (11.18) <.01 |
| b | Var (Slope) | 0.50 (0.26) .05 | 0.43 (0.26) .10 | 0.35 (0.25) .16 | 0.35 (0.25) .17 |
| b | Var (Residual) | 18.06 (2.44) <.01 | 18.31 (2.45) <.01 | 17.83 (2.58) <.01 | 17.91 (2.66) <.01 |
| a | Covar (Level, Slope) | 0.34 (0.55) .54 | 0.36 (0.56) .52 | 0.20 (0.37) .59 | 0.14 (0.35) .69 |
| b | Covar (Level, Slope) | -2.44 (1.24) .05 | -2.44 (1.36) .07 | -2.68 (1.24) .03 | -2.52 (1.19) .03 |
|  | Correlation of Levels | -0.53 | -0.53 | -0.51 | -0.4573 |
|  | Correlation of Slopes | -0.16 | -0.13 | -0.09 | 0.0088 |
|  | Correlation of Residuals | -0.26 | -0.26 | -0.23 | -0.2351 |
|  | N | 144 | 144 | 134 | 134 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,260 | -2,244 | -2,132 | -2,117 |
|  | AIC | 4,563 | 4,539 | 4,321 | 4,317 |
|  | BIC | 4,625 | 4,613 | 4,405 | 4,436 |

## synonyms

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus |
| ab | Covar (Levels) | -4.20 (2.42) .08 | -2.95 (1.88) .12 | -2.29 (1.65) .16 | -0.87 (1.52) .57 |
| ab | Covar (Slopes) | -0.04 (0.06) .57 | -0.03 (0.06) .60 | -0.04 (0.05) .42 | -0.02 (0.06) .65 |
| ab | Covar (Residuals) | -0.34 (0.47) .47 | -0.40 (0.47) .39 | -0.39 (0.50) .44 | -0.38 (0.49) .44 |
| er | Corr (Levels) | -0.27 (0.14) .06 | -0.23 (0.14) .09 | -0.20 (0.14) .15 | -0.09 (0.16) .56 |
| er | Corr (Slopes) | -0.55 (1.46) .70 | -0.51 (1.38) .71 | -0.81 (1.51) .59 | -0.63 (1.90) .74 |
| er | Corr (Residuals) | -0.05 (0.07) .48 | -0.06 (0.07) .40 | -0.06 (0.08) .44 | -0.06 (0.08) .44 |
| a | Level | 9.81 (0.47) <.01 | 9.89 (0.49) <.01 | 9.95 (0.45) <.01 | 8.39 (0.58) <.01 |
| a | Slope | 16.23 (1.02) <.01 | 15.24 (0.90) <.01 | 15.52 (0.97) <.01 | 19.02 (1.26) <.01 |
| a | Level \* age | 0.39 (0.13) <.01 | 0.38 (0.13) <.01 | 0.26 (0.11) .02 | 0.29 (0.11) .01 |
| a | Level \* education | --- | -0.09 (0.10) .38 | -0.10 (0.09) .30 | -0.08 (0.10) .38 |
| a | Level \* height | --- | --- | -6.66 (4.57) .14 | -5.99 (4.22) .16 |
| a | Level \* smoking | --- | --- | --- | 1.05 (0.61) .08 |
| a | Level \* cardio | --- | --- | --- | 1.28 (0.55) .02 |
| a | Level \* diabetes | --- | --- | --- | 1.22 (0.82) .14 |
| a | Slope \* age | -0.02 (0.04) .62 | -0.01 (0.04) .72 | -0.03 (0.03) .35 | -0.02 (0.03) .61 |
| a | Slope \* education | --- | 0.01 (0.03) .63 | 0.00 (0.02) .92 | 0.01 (0.02) .78 |
| a | Slope \* height | --- | --- | 0.41 (1.00) .68 | 0.80 (0.99) .42 |
| a | Slope \* smoking | --- | --- | --- | -0.10 (0.13) .44 |
| a | Slope \* cardio | --- | --- | --- | 0.20 (0.15) .16 |
| a | Slope \* diabetes | --- | --- | --- | 0.12 (0.21) .57 |
| b | Level | 0.37 (0.11) <.01 | 0.36 (0.10) <.01 | 0.39 (0.10) <.01 | 0.33 (0.13) .01 |
| b | Slope | -0.19 (0.12) .13 | -0.20 (0.12) .12 | -0.19 (0.13) .13 | -0.36 (0.22) .10 |
| b | Level \* age | 0.12 (0.27) .67 | 0.19 (0.23) .41 | 0.16 (0.25) .53 | 0.11 (0.26) .66 |
| b | Level \* education | --- | 1.20 (0.14) <.01 | 1.10 (0.13) <.01 | 1.23 (0.15) <.01 |
| b | Level \* height | --- | --- | 9.48 (8.30) .25 | 9.68 (8.14) .23 |
| b | Level \* smoking | --- | --- | --- | -4.57 (1.21) <.01 |
| b | Level \* cardio | --- | --- | --- | 0.34 (1.10) .76 |
| b | Level \* diabetes | --- | --- | --- | -3.55 (1.54) .02 |
| b | Slope \* age | -0.02 (0.05) .62 | -0.01 (0.05) .75 | -0.00 (0.05) .94 | 0.00 (0.05) .94 |
| b | Slope \* education | --- | 0.00 (0.02) .96 | 0.01 (0.02) .64 | -0.00 (0.02) .97 |
| b | Slope \* height | --- | --- | 0.72 (1.13) .52 | 0.48 (1.23) .70 |
| b | Slope \* smoking | --- | --- | --- | 0.26 (0.18) .16 |
| b | Slope \* cardio | --- | --- | --- | -0.06 (0.14) .66 |
| b | Slope \* diabetes | --- | --- | --- | -0.06 (0.30) .85 |
| a | Var (Level) | 5.75 (1.97) <.01 | 5.68 (1.97) <.01 | 4.58 (1.53) <.01 | 3.80 (1.35) <.01 |
| a | Var (Slope) | 0.06 (0.17) .76 | 0.06 (0.18) .74 | 0.04 (0.09) .68 | 0.03 (0.08) .73 |
| a | Var (Residual) | 7.19 (1.62) <.01 | 7.15 (1.57) <.01 | 6.42 (1.23) <.01 | 6.40 (1.21) <.01 |
| b | Var (Level) | 42.20 (4.18) <.01 | 29.10 (3.38) <.01 | 28.60 (3.64) <.01 | 23.30 (3.21) <.01 |
| b | Var (Slope) | 0.08 (0.05) .10 | 0.08 (0.05) .11 | 0.07 (0.05) .17 | 0.06 (0.06) .28 |
| b | Var (Residual) | 5.92 (0.84) <.01 | 5.94 (0.84) <.01 | 5.48 (0.68) <.01 | 5.46 (0.67) <.01 |
| a | Covar (Level, Slope) | 0.37 (0.57) .52 | 0.39 (0.60) .52 | 0.26 (0.38) .49 | 0.19 (0.36) .60 |
| b | Covar (Level, Slope) | -0.42 (0.42) .32 | -0.49 (0.34) .15 | -0.39 (0.34) .25 | -0.11 (0.38) .77 |
|  | Correlation of Levels | -0.269 | -0.229 | -0.200 | -0.092 |
|  | Correlation of Slopes | -0.550 | -0.508 | -0.804 | -0.626 |
|  | Correlation of Residuals | -0.053 | -0.062 | -0.065 | -0.065 |
|  | N | 145 | 145 | 134 | 134 |
|  | occasions | 5 | 5 | 5 | 5 |
|  | parameters | 21 | 25 | 29 | 41 |
|  | LL | -2,044 | -2,020 | -1,910 | -1,890 |
|  | AIC | 4,129 | 4,090 | 3,877 | 3,863 |
|  | BIC | 4,192 | 4,164 | 3,961 | 3,982 |

## Summary

Study = *OCTO*; Gender = *male*; Process (a) = *gait*

Computed correlations:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Levels | block | -0.53 | -0.52 | -0.46 | -0.40 |
| Correlation of Levels | clock | -0.60 | -0.58 | -0.42 | -0.41 |
| Correlation of Levels | digit\_b | -0.32 | -0.29 | -0.31 | -0.22 |
| Correlation of Levels | digit\_f | -0.30 | -0.28 | -0.23 | -0.17 |
| Correlation of Levels | fig\_logic | -0.56 | -0.54 | -0.48 | -0.47 |
| Correlation of Levels | information | -0.34 | -0.30 | -0.22 | -0.21 |
| Correlation of Levels | mir | -0.68 | -0.67 | -0.61 | -0.57 |
| Correlation of Levels | mir\_recog | -0.49 | -0.48 | -0.36 | -0.33 |
| Correlation of Levels | mmse | -0.67 | -0.66 | -0.52 | -0.48 |
| Correlation of Levels | prose\_im | -0.44 | -0.42 | -0.40 | . |
| Correlation of Levels | psif | . | . | . | . |
| Correlation of Levels | symbol | -0.53 | -0.53 | -0.51 | -0.46 |
| Correlation of Levels | synonyms | -0.27 | -0.23 | -0.20 | -0.09 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Slopes | block | -0.69 | -0.66 | -0.74 | -0.74 |
| Correlation of Slopes | clock | -0.10 | -0.10 | -0.20 | -0.15 |
| Correlation of Slopes | digit\_b | -0.57 | -0.54 | -0.53 | -0.58 |
| Correlation of Slopes | digit\_f | -0.55 | -0.43 | -0.63 | -0.55 |
| Correlation of Slopes | fig\_logic | 0.28 | 0.30 | 0.26 | 0.27 |
| Correlation of Slopes | information | -0.35 | -0.37 | -0.30 | -0.13 |
| Correlation of Slopes | mir | -0.14 | -0.15 | -0.17 | -0.17 |
| Correlation of Slopes | mir\_recog | -0.09 | -0.09 | -0.19 | -0.31 |
| Correlation of Slopes | mmse | -0.36 | -0.38 | -0.56 | -0.42 |
| Correlation of Slopes | prose\_im | -0.66 | -0.66 | -0.18 | . |
| Correlation of Slopes | psif | . | . | . | . |
| Correlation of Slopes | symbol | -0.16 | -0.13 | -0.09 | 0.01 |
| Correlation of Slopes | synonyms | -0.55 | -0.51 | -0.80 | -0.63 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Correlation of Residuals | block | -0.13 | -0.13 | -0.09 | -0.10 |
| Correlation of Residuals | clock | -0.17 | -0.18 | -0.16 | -0.17 |
| Correlation of Residuals | digit\_b | -0.05 | -0.05 | -0.03 | -0.04 |
| Correlation of Residuals | digit\_f | -0.08 | -0.09 | -0.05 | -0.06 |
| Correlation of Residuals | fig\_logic | -0.06 | -0.06 | -0.05 | -0.06 |
| Correlation of Residuals | information | -0.08 | -0.08 | -0.09 | -0.11 |
| Correlation of Residuals | mir | -0.08 | -0.08 | -0.05 | -0.05 |
| Correlation of Residuals | mir\_recog | -0.19 | -0.19 | -0.12 | -0.12 |
| Correlation of Residuals | mmse | -0.11 | -0.12 | -0.13 | -0.12 |
| Correlation of Residuals | prose\_im | 0.11 | 0.11 | 0.14 | . |
| Correlation of Residuals | psif | . | . | . | . |
| Correlation of Residuals | symbol | -0.26 | -0.26 | -0.23 | -0.24 |
| Correlation of Residuals | synonyms | -0.05 | -0.06 | -0.07 | -0.06 |

P-values for corresponding covariances:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Levels | block | 0.00 | 0.00 | 0.00 | 0.01 |
| Covariance of Levels | clock | 0.24 | 0.19 | 0.11 | 0.08 |
| Covariance of Levels | digit\_b | 0.11 | 0.14 | 0.13 | 0.33 |
| Covariance of Levels | digit\_f | 0.08 | 0.08 | 0.14 | 0.33 |
| Covariance of Levels | fig\_logic | 0.02 | 0.03 | 0.05 | 0.08 |
| Covariance of Levels | information | 0.04 | 0.07 | 0.12 | 0.14 |
| Covariance of Levels | mir | 0.00 | 0.00 | 0.00 | 0.00 |
| Covariance of Levels | mir\_recog | 0.15 | 0.17 | 0.30 | 0.35 |
| Covariance of Levels | mmse | 0.09 | 0.10 | 0.08 | 0.10 |
| Covariance of Levels | prose\_im | 0.02 | 0.04 | 0.05 | . |
| Covariance of Levels | psif | . | . | . | . |
| Covariance of Levels | symbol | 0.00 | 0.00 | 0.00 | 0.01 |
| Covariance of Levels | synonyms | 0.08 | 0.12 | 0.16 | 0.57 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Slopes | block | 0.65 | 0.68 | 0.65 | 0.69 |
| Covariance of Slopes | clock | 0.96 | 0.96 | 0.80 | 0.89 |
| Covariance of Slopes | digit\_b | 0.52 | 0.55 | 0.46 | 0.45 |
| Covariance of Slopes | digit\_f | 0.35 | 0.40 | 0.22 | 0.33 |
| Covariance of Slopes | fig\_logic | 0.85 | 0.85 | 0.87 | 0.87 |
| Covariance of Slopes | information | 0.59 | 0.59 | 0.61 | 0.83 |
| Covariance of Slopes | mir | 0.77 | 0.75 | 0.71 | 0.70 |
| Covariance of Slopes | mir\_recog | 0.94 | 0.93 | 0.78 | 0.69 |
| Covariance of Slopes | mmse | 0.83 | 0.78 | 0.40 | 0.48 |
| Covariance of Slopes | prose\_im | 0.87 | 0.88 | 0.95 | . |
| Covariance of Slopes | psif | . | . | . | . |
| Covariance of Slopes | symbol | 0.86 | 0.89 | 0.93 | 1.00 |
| Covariance of Slopes | synonyms | 0.57 | 0.60 | 0.42 | 0.65 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus |
| Covariance of Residuals | block | 0.22 | 0.22 | 0.34 | 0.29 |
| Covariance of Residuals | clock | 0.03 | 0.03 | 0.03 | 0.02 |
| Covariance of Residuals | digit\_b | 0.71 | 0.70 | 0.78 | 0.69 |
| Covariance of Residuals | digit\_f | 0.36 | 0.28 | 0.48 | 0.41 |
| Covariance of Residuals | fig\_logic | 0.56 | 0.60 | 0.65 | 0.53 |
| Covariance of Residuals | information | 0.31 | 0.29 | 0.32 | 0.27 |
| Covariance of Residuals | mir | 0.36 | 0.38 | 0.51 | 0.54 |
| Covariance of Residuals | mir\_recog | 0.04 | 0.03 | 0.03 | 0.04 |
| Covariance of Residuals | mmse | 0.19 | 0.17 | 0.12 | 0.13 |
| Covariance of Residuals | prose\_im | 0.42 | 0.41 | 0.36 | . |
| Covariance of Residuals | psif | . | . | . | . |
| Covariance of Residuals | symbol | 0.02 | 0.02 | 0.03 | 0.03 |
| Covariance of Residuals | synonyms | 0.47 | 0.39 | 0.44 | 0.44 |

#Session Info

R version 3.3.2 (2016-10-31)  
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] ggplot2\_2.2.1 magrittr\_1.5 knitr\_1.15.1   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.9 munsell\_0.4.3 testit\_0.6 colorspace\_1.3-2 R6\_2.2.0 highr\_0.6   
 [7] stringr\_1.1.0 plyr\_1.8.4 dplyr\_0.5.0 tools\_3.3.2 DT\_0.2 grid\_3.3.2   
[13] gtable\_0.2.0 DBI\_0.5-1 htmltools\_0.3.5 yaml\_2.1.14 lazyeval\_0.2.0 assertthat\_0.1   
[19] rprojroot\_1.2 digest\_0.6.12 tibble\_1.2 readr\_1.0.0 tidyr\_0.6.1 htmlwidgets\_0.8   
[25] rsconnect\_0.7 evaluate\_0.10 rmarkdown\_1.3 stringi\_1.1.2 scales\_0.4.1 backports\_1.0.5