EAS : Seed report

Date: 2016-10-20

Table of Contents

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

# Available models

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

|  |  |  |
| --- | --- | --- |
| process\_a | process\_b | n\_models |
| gait | block | 10 |
| gait | bnt | 10 |
| gait | categories | 10 |
| gait | digit\_tot | 10 |
| gait | fas | 10 |
| gait | information | 10 |
| gait | logic\_tot | 10 |
| gait | mmse | 10 |
| gait | symbol | 10 |
| gait | trailsb | 10 |
| gait | waisvocab | 10 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| eas | female | a | gait | block | 1 |
| eas | female | a | gait | bnt | 1 |
| eas | female | a | gait | categories | 1 |
| eas | female | a | gait | digit\_tot | 1 |
| eas | female | a | gait | fas | 1 |
| eas | female | a | gait | information | 1 |
| eas | female | a | gait | logic\_tot | 1 |
| eas | female | a | gait | mmse | 1 |
| eas | female | a | gait | symbol | 1 |
| eas | female | a | gait | trailsb | 1 |
| eas | female | a | gait | waisvocab | 1 |
| eas | female | ae | gait | block | 1 |
| eas | female | ae | gait | bnt | 1 |
| eas | female | ae | gait | categories | 1 |
| eas | female | ae | gait | digit\_tot | 1 |
| eas | female | ae | gait | fas | 1 |
| eas | female | ae | gait | information | 1 |
| eas | female | ae | gait | logic\_tot | 1 |
| eas | female | ae | gait | mmse | 1 |
| eas | female | ae | gait | symbol | 1 |
| eas | female | ae | gait | trailsb | 1 |
| eas | female | ae | gait | waisvocab | 1 |
| eas | female | aeh | gait | block | 1 |
| eas | female | aeh | gait | bnt | 1 |
| eas | female | aeh | gait | categories | 1 |
| eas | female | aeh | gait | digit\_tot | 1 |
| eas | female | aeh | gait | fas | 1 |
| eas | female | aeh | gait | information | 1 |
| eas | female | aeh | gait | logic\_tot | 1 |
| eas | female | aeh | gait | mmse | 1 |
| eas | female | aeh | gait | symbol | 1 |
| eas | female | aeh | gait | trailsb | 1 |
| eas | female | aeh | gait | waisvocab | 1 |
| eas | female | aehplus | gait | block | 1 |
| eas | female | aehplus | gait | bnt | 1 |
| eas | female | aehplus | gait | categories | 1 |
| eas | female | aehplus | gait | digit\_tot | 1 |
| eas | female | aehplus | gait | fas | 1 |
| eas | female | aehplus | gait | information | 1 |
| eas | female | aehplus | gait | logic\_tot | 1 |
| eas | female | aehplus | gait | mmse | 1 |
| eas | female | aehplus | gait | symbol | 1 |
| eas | female | aehplus | gait | trailsb | 1 |
| eas | female | aehplus | gait | waisvocab | 1 |
| eas | female | full | gait | block | 1 |
| eas | female | full | gait | bnt | 1 |
| eas | female | full | gait | categories | 1 |
| eas | female | full | gait | digit\_tot | 1 |
| eas | female | full | gait | fas | 1 |
| eas | female | full | gait | information | 1 |
| eas | female | full | gait | logic\_tot | 1 |
| eas | female | full | gait | mmse | 1 |
| eas | female | full | gait | symbol | 1 |
| eas | female | full | gait | trailsb | 1 |
| eas | female | full | gait | waisvocab | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| study\_name | subgroup | model\_type | process\_a | process\_b | n\_models |
| eas | male | a | gait | block | 1 |
| eas | male | a | gait | bnt | 1 |
| eas | male | a | gait | categories | 1 |
| eas | male | a | gait | digit\_tot | 1 |
| eas | male | a | gait | fas | 1 |
| eas | male | a | gait | information | 1 |
| eas | male | a | gait | logic\_tot | 1 |
| eas | male | a | gait | mmse | 1 |
| eas | male | a | gait | symbol | 1 |
| eas | male | a | gait | trailsb | 1 |
| eas | male | a | gait | waisvocab | 1 |
| eas | male | ae | gait | block | 1 |
| eas | male | ae | gait | bnt | 1 |
| eas | male | ae | gait | categories | 1 |
| eas | male | ae | gait | digit\_tot | 1 |
| eas | male | ae | gait | fas | 1 |
| eas | male | ae | gait | information | 1 |
| eas | male | ae | gait | logic\_tot | 1 |
| eas | male | ae | gait | mmse | 1 |
| eas | male | ae | gait | symbol | 1 |
| eas | male | ae | gait | trailsb | 1 |
| eas | male | ae | gait | waisvocab | 1 |
| eas | male | aeh | gait | block | 1 |
| eas | male | aeh | gait | bnt | 1 |
| eas | male | aeh | gait | categories | 1 |
| eas | male | aeh | gait | digit\_tot | 1 |
| eas | male | aeh | gait | fas | 1 |
| eas | male | aeh | gait | information | 1 |
| eas | male | aeh | gait | logic\_tot | 1 |
| eas | male | aeh | gait | mmse | 1 |
| eas | male | aeh | gait | symbol | 1 |
| eas | male | aeh | gait | trailsb | 1 |
| eas | male | aeh | gait | waisvocab | 1 |
| eas | male | aehplus | gait | block | 1 |
| eas | male | aehplus | gait | bnt | 1 |
| eas | male | aehplus | gait | categories | 1 |
| eas | male | aehplus | gait | digit\_tot | 1 |
| eas | male | aehplus | gait | fas | 1 |
| eas | male | aehplus | gait | information | 1 |
| eas | male | aehplus | gait | logic\_tot | 1 |
| eas | male | aehplus | gait | mmse | 1 |
| eas | male | aehplus | gait | symbol | 1 |
| eas | male | aehplus | gait | trailsb | 1 |
| eas | male | aehplus | gait | waisvocab | 1 |
| eas | male | full | gait | block | 1 |
| eas | male | full | gait | bnt | 1 |
| eas | male | full | gait | categories | 1 |
| eas | male | full | gait | digit\_tot | 1 |
| eas | male | full | gait | fas | 1 |
| eas | male | full | gait | information | 1 |
| eas | male | full | gait | logic\_tot | 1 |
| eas | male | full | gait | mmse | 1 |
| eas | male | full | gait | symbol | 1 |
| eas | male | full | gait | trailsb | 1 |
| eas | male | full | gait | waisvocab | 1 |

# female

Gender = *female*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *block*, *bnt*, *categories*, *digit\_tot*, *fas*, *information*, *logic\_tot*, *mmse*, *symbol*, *trailsb*, *waisvocab*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| process | label | block | bnt | categories | digit\_tot | fas | information | logic\_tot | mmse | symbol | trailsb | waisvocab | mean(sd) |
| a | Level | 110.35 (7.89) <.01 | 111.42 (8.18) <.01 | 110.60 (7.95) <.01 | 109.88 (7.85) <.01 | 109.60 (8.33) <.01 | 109.79 (8.61) <.01 | 110.35 (8.68) <.01 | 105.72 (12.96) <.01 | 109.43 (8.40) <.01 | 110.04 (8.27) <.01 | 109.77 (8.37) <.01 | 109.72(1.44) |
| a | Slope | -4.01 (2.39) .09 | -4.45 (2.75) .10 | -3.98 (2.60) .13 | -3.29 (2.37) .16 | -3.10 (2.44) .20 | -3.18 (2.65) .23 | -3.65 (2.58) .16 | -1.64 (5.96) .78 | -3.04 (2.84) .28 | -3.51 (2.53) .16 | -3.23 (2.68) .23 | -3.37(0.73) |
| a | Level \* age | -1.56 (0.44) <.01 | -1.57 (0.50) <.01 | -1.56 (0.53) <.01 | -1.60 (0.49) <.01 | -1.54 (0.49) <.01 | -1.55 (0.52) <.01 | -1.59 (0.49) <.01 | -0.46 (0.56) .41 | -1.52 (0.51) <.01 | -1.57 (0.56) <.01 | -1.54 (0.51) <.01 | -1.46(0.33) |
| a | Level \* education | 0.40 (0.83) .63 | 0.32 (0.81) .70 | 0.37 (0.80) .64 | 0.46 (0.79) .56 | 0.34 (0.81) .67 | 0.40 (0.84) .63 | 0.43 (0.85) .61 | 0.67 (0.95) .48 | 0.41 (0.83) .62 | 0.40 (0.82) .63 | 0.41 (0.80) .60 | 0.42(0.09) |
| a | Level \* height | 0.06 (0.32) .86 | 0.02 (0.32) .95 | 0.07 (0.34) .84 | 0.03 (0.34) .92 | 0.06 (0.33) .85 | 0.03 (0.36) .94 | 0.04 (0.33) .91 | 0.09 (0.45) .84 | 0.05 (0.33) .88 | 0.03 (0.36) .93 | 0.06 (0.34) .86 | 0.05(0.02) |
| a | Level \* smoking | 3.08 (3.09) .32 | 2.68 (4.33) .54 | 2.98 (4.10) .47 | 3.21 (3.92) .41 | 3.34 (3.89) .39 | 3.02 (4.24) .48 | 2.98 (3.41) .38 | -1.54 (6.50) .81 | 3.13 (3.85) .42 | 3.05 (4.04) .45 | 3.30 (4.36) .45 | 2.66(1.40) |
| a | Level \* cardio | -5.10 (6.53) .43 | -5.81 (6.96) .40 | -4.68 (7.19) .52 | -5.31 (8.65) .54 | -4.57 (8.16) .58 | -4.68 (9.09) .61 | -4.75 (6.81) .49 | -4.14 (10.80) .70 | -4.83 (7.43) .52 | -5.04 (7.41) .50 | -5.05 (7.56) .50 | -4.91(0.43) |
| a | Level \* diabetes | -18.94 (6.28) <.01 | -18.96 (7.02) .01 | -19.04 (5.80) <.01 | -18.72 (5.61) <.01 | -18.62 (5.91) <.01 | -18.57 (6.81) .01 | -18.91 (6.24) <.01 | -4.76 (8.32) .57 | -18.77 (6.32) <.01 | -18.85 (6.20) <.01 | -18.63 (6.08) <.01 | -17.53(4.24) |
| a | Slope \* age | -0.03 (0.11) .79 | -0.03 (0.14) .80 | -0.06 (0.13) .62 | -0.04 (0.13) .79 | -0.05 (0.13) .68 | -0.06 (0.15) .70 | -0.04 (0.13) .74 | -0.11 (0.19) .57 | -0.06 (0.15) .69 | -0.05 (0.17) .78 | -0.06 (0.13) .63 | -0.05(0.02) |
| a | Slope \* education | 0.10 (0.26) .68 | 0.16 (0.25) .52 | 0.15 (0.28) .60 | 0.07 (0.27) .80 | 0.08 (0.26) .77 | 0.09 (0.29) .75 | 0.10 (0.27) .71 | -0.27 (0.31) .39 | 0.06 (0.25) .81 | 0.09 (0.26) .72 | 0.08 (0.28) .76 | 0.07(0.11) |
| a | Slope \* height | 0.05 (0.06) .41 | 0.07 (0.07) .26 | 0.06 (0.07) .45 | 0.07 (0.07) .35 | 0.07 (0.07) .37 | 0.07 (0.07) .32 | 0.07 (0.08) .35 | 0.03 (0.20) .89 | 0.06 (0.07) .39 | 0.06 (0.08) .43 | 0.06 (0.07) .37 | 0.06(0.01) |
| a | Slope \* smoking | -0.29 (1.13) .80 | -0.07 (1.18) .95 | -0.21 (1.21) .86 | -0.38 (1.33) .77 | -0.34 (1.35) .80 | -0.32 (1.15) .78 | -0.25 (1.15) .82 | 0.93 (2.40) .70 | -0.29 (1.39) .83 | -0.26 (1.25) .83 | -0.33 (1.23) .79 | -0.16(0.37) |
| a | Slope \* cardio | -0.16 (1.90) .93 | 0.77 (1.99) .70 | 0.21 (2.48) .93 | 0.12 (2.42) .96 | -0.07 (2.35) .97 | -0.05 (2.80) .98 | 0.20 (2.05) .92 | 1.28 (3.71) .73 | -0.00 (2.16) .99 | -0.04 (2.01) .99 | -0.11 (2.18) .96 | 0.20(0.44) |
| a | Slope \* diabetes | 0.67 (1.95) .73 | 0.38 (2.82) .89 | 0.92 (2.03) .65 | 0.58 (2.06) .78 | 0.75 (2.09) .72 | 0.52 (2.17) .81 | 0.67 (2.10) .75 | 0.16 (3.17) .96 | 0.65 (2.87) .82 | 0.61 (2.34) .79 | 0.57 (2.40) .81 | 0.59(0.20) |
| b | Level | 18.93 (2.30) <.01 | 10.77 (0.62) <.01 | 38.66 (2.86) <.01 | 13.54 (0.90) <.01 | 30.45 (3.55) <.01 | 13.23 (2.11) <.01 | 18.27 (2.09) <.01 | 26.68 (0.88) <.01 | 41.23 (3.25) <.01 | 162.47 (17.86) <.01 | 34.77 (3.20) <.01 | --- |
| b | Slope | 0.80 (0.47) .09 | -0.05 (0.16) .76 | -0.83 (0.78) .28 | 0.30 (0.18) .10 | 0.42 (0.71) .56 | 0.24 (0.58) .67 | -0.09 (0.44) .83 | -0.06 (0.29) .84 | 0.32 (0.62) .60 | 3.44 (5.01) .49 | 0.33 (0.72) .65 | --- |
| b | Level \* age | -0.15 (0.16) .35 | -0.06 (0.05) .28 | -0.34 (0.19) .06 | -0.07 (0.07) .33 | -0.34 (0.27) .20 | -0.13 (0.14) .36 | -0.12 (0.13) .32 | -0.00 (0.04) .98 | -0.41 (0.25) .11 | 1.77 (1.40) .20 | -0.15 (0.27) .59 | --- |
| b | Level \* education | 0.88 (0.24) <.01 | 0.27 (0.06) <.01 | 0.72 (0.29) .01 | 0.29 (0.09) <.01 | 1.28 (0.36) <.01 | 0.88 (0.25) <.01 | 0.71 (0.21) <.01 | 0.06 (0.06) .32 | 1.76 (0.34) <.01 | -7.00 (2.04) <.01 | 1.86 (0.33) <.01 | --- |
| b | Level \* height | -0.01 (0.11) .90 | 0.00 (0.03) .90 | -0.10 (0.14) .48 | 0.03 (0.05) .57 | -0.12 (0.17) .51 | -0.01 (0.08) .91 | 0.08 (0.10) .40 | 0.00 (0.04) .95 | 0.05 (0.20) .79 | 0.12 (0.90) .90 | -0.06 (0.16) .72 | --- |
| b | Level \* smoking | 1.53 (1.41) .28 | 0.45 (0.26) .08 | 0.74 (1.39) .59 | 0.42 (0.50) .41 | 2.91 (1.56) .06 | 0.28 (0.81) .73 | 0.62 (1.09) .57 | -0.22 (0.41) .59 | 2.34 (2.28) .30 | -11.49 (8.30) .17 | 1.12 (1.26) .37 | --- |
| b | Level \* cardio | -0.41 (2.26) .86 | -0.83 (0.57) .14 | 1.12 (3.23) .73 | -0.33 (1.07) .76 | -2.01 (3.83) .60 | 0.72 (2.11) .73 | 0.30 (2.67) .91 | 0.06 (0.63) .92 | -5.16 (6.40) .42 | 26.91 (24.01) .26 | 3.33 (4.09) .42 | --- |
| b | Level \* diabetes | -4.38 (2.59) .09 | -1.63 (0.52) <.01 | -5.16 (2.31) .02 | -1.60 (0.70) .02 | -7.13 (2.77) .01 | -2.63 (1.35) .05 | -1.15 (1.90) .55 | -0.09 (0.46) .84 | -6.68 (2.95) .02 | 31.43 (17.48) .07 | -4.86 (2.44) .05 | --- |
| b | Slope \* age | -0.04 (0.03) .15 | -0.01 (0.01) .58 | -0.03 (0.04) .48 | -0.02 (0.01) .21 | -0.06 (0.04) .12 | 0.00 (0.04) .92 | -0.01 (0.03) .64 | -0.00 (0.01) .84 | -0.05 (0.03) .14 | 0.22 (0.32) .49 | -0.04 (0.04) .34 | --- |
| b | Slope \* education | -0.07 (0.05) .17 | -0.00 (0.02) .84 | 0.08 (0.07) .26 | -0.02 (0.02) .34 | 0.02 (0.07) .75 | -0.03 (0.06) .58 | 0.01 (0.04) .78 | 0.00 (0.02) .87 | -0.05 (0.07) .49 | -0.25 (0.52) .63 | -0.00 (0.07) .99 | --- |
| b | Slope \* height | -0.01 (0.02) .68 | 0.00 (0.01) .94 | 0.00 (0.03) .89 | -0.01 (0.01) .13 | 0.00 (0.02) .97 | 0.00 (0.03) .90 | -0.00 (0.02) .83 | -0.00 (0.01) .93 | 0.01 (0.03) .85 | -0.01 (0.22) .97 | 0.01 (0.03) .65 | --- |
| b | Slope \* smoking | -0.10 (0.26) .69 | 0.01 (0.11) .93 | 0.10 (0.39) .81 | -0.02 (0.14) .87 | -0.07 (0.38) .86 | -0.00 (0.38) .99 | -0.01 (0.31) .97 | 0.06 (0.12) .61 | 0.03 (0.40) .94 | -0.38 (2.70) .89 | -0.02 (0.38) .96 | --- |
| b | Slope \* cardio | -0.05 (0.71) .94 | 0.21 (0.19) .26 | -0.04 (0.87) .96 | -0.11 (0.30) .72 | 0.06 (0.88) .95 | -0.28 (0.38) .47 | 0.26 (0.71) .72 | -0.03 (0.33) .93 | 0.11 (0.77) .89 | -2.06 (10.59) .85 | -0.63 (0.90) .48 | --- |
| b | Slope \* diabetes | 0.18 (0.38) .64 | -0.04 (0.12) .77 | 0.06 (0.67) .93 | 0.06 (0.14) .66 | 0.50 (0.54) .35 | -0.22 (0.50) .65 | -0.08 (0.40) .83 | 0.03 (0.14) .84 | -0.28 (0.70) .69 | 2.44 (4.44) .58 | -0.14 (0.48) .77 | --- |
| a | Var (Level) | 334.11 (77.39) <.01 | 340.41 (76.17) <.01 | 333.48 (83.54) <.01 | 345.24 (79.33) <.01 | 351.56 (77.65) <.01 | 347.79 (87.62) <.01 | 338.85 (80.33) <.01 | 214.38 (115.83) .06 | 343.48 (79.39) <.01 | 343.16 (80.72) <.01 | 344.72 (82.47) <.01 | 330.65(38.94) |
| a | Var (Slope) | 5.72 (3.31) .08 | 7.28 (4.13) .08 | 6.05 (3.53) .09 | 6.29 (4.23) .14 | 6.90 (3.81) .07 | 6.70 (3.70) .07 | 6.21 (3.38) .07 | 1.22 (5.63) .83 | 6.57 (3.20) .04 | 6.39 (3.90) .10 | 6.74 (4.52) .14 | 6.00(1.64) |
| a | Var (Residual) | 62.24 (8.25) <.01 | 61.11 (8.32) <.01 | 61.62 (7.61) <.01 | 61.50 (8.49) <.01 | 60.53 (7.67) <.01 | 59.91 (8.51) <.01 | 61.30 (8.96) <.01 | 73.97 (20.68) <.01 | 60.84 (7.54) <.01 | 61.41 (8.08) <.01 | 60.51 (7.32) <.01 | 62.27(3.93) |
| a | Covar (Level, Slope) | -9.27 (16.55) .58 | -13.50 (17.31) .44 | -9.30 (19.05) .63 | -13.90 (20.88) .51 | -15.92 (16.94) .35 | -14.57 (18.73) .44 | -11.66 (16.60) .48 | -0.79 (19.94) .97 | -13.55 (17.49) .44 | -13.12 (17.62) .46 | -13.77 (19.64) .48 | -11.76(4.18) |
| b | Var (Level) | 46.60 (9.10) <.01 | 2.71 (0.82) <.01 | 52.84 (13.27) <.01 | 5.87 (1.36) <.01 | 99.22 (21.35) <.01 | 11.16 (3.98) <.01 | 21.85 (5.44) <.01 | 0.30 (0.30) .31 | 114.87 (17.88) <.01 | 2329.84 (696.34) <.01 | 80.76 (17.32) <.01 | --- |
| b | Var (Slope) | 0.13 (0.23) .58 | 0.03 (0.03) .23 | 0.91 (0.44) .04 | 0.04 (0.03) .15 | 0.25 (0.38) .52 | 0.10 (0.28) .72 | 0.11 (0.12) .32 | 0.01 (0.02) .75 | 0.30 (0.44) .49 | 3.04 (18.63) .87 | 0.28 (0.43) .51 | --- |
| b | Var (Residual) | 19.85 (1.60) <.01 | 1.75 (0.15) <.01 | 17.30 (1.56) <.01 | 2.41 (0.18) <.01 | 25.44 (1.90) <.01 | 7.36 (0.74) <.01 | 14.56 (1.29) <.01 | 0.67 (0.08) <.01 | 28.05 (1.91) <.01 | 1487.15 (70.29) <.01 | 29.63 (1.98) <.01 | --- |
| b | Covar (Level, Slope) | -1.00 (1.45) .49 | 0.24 (0.15) .10 | 0.53 (1.93) .78 | 0.03 (0.16) .84 | 2.84 (2.73) .30 | 0.57 (1.05) .59 | 0.70 (0.96) .46 | 0.04 (0.07) .58 | -2.09 (2.52) .41 | 51.78 (135.78) .70 | -2.13 (2.44) .38 | --- |
| ab | Covar (Levels) | 21.28 (20.07) .29 | 2.61 (5.51) .64 | 1.48 (17.77) .93 | 7.93 (7.90) .32 | 48.13 (27.96) .08 | 7.58 (13.95) .59 | 6.71 (12.96) .60 | 2.13 (5.14) .68 | 35.06 (30.82) .26 | -71.87 (174.08) .68 | 46.20 (24.11) .06 | --- |
| ab | Covar (Slopes) | 0.01 (0.58) .98 | 0.32 (0.28) .25 | 0.89 (1.13) .43 | 0.34 (0.23) .14 | 0.64 (0.63) .31 | -0.45 (0.92) .63 | 0.26 (0.62) .68 | 0.01 (0.25) .96 | 1.12 (0.87) .20 | -1.63 (5.47) .76 | 1.18 (0.97) .22 | --- |
| ab | Covar (Residuals) | -2.59 (2.83) .36 | -0.05 (1.25) .97 | 1.58 (3.67) .67 | 0.86 (1.03) .40 | -2.60 (3.11) .40 | -0.37 (2.21) .87 | 0.61 (2.84) .83 | 0.22 (1.16) .85 | -3.16 (4.08) .44 | -2.30 (31.24) .94 | 1.96 (4.36) .65 | --- |
|  | Correlation of Levels | 0.171 | 0.0859 | 0.011 | 0.176 | 0.258 | 0.122 | 0.078 | 0.265 | 0.177 | -0.0804 | 0.277 | 0.14(0.11) |
|  | Correlation of Slopes | 0.018 | 0.6632 | 0.380 | 0.652 | 0.489 | -0.542 | 0.309 | 0.140 | 0.794 | -0.3707 | 0.857 | 0.31(0.46) |
|  | Correlation of Residuals | -0.074 | -0.0045 | 0.048 | 0.071 | -0.066 | -0.018 | 0.020 | 0.032 | -0.076 | -0.0076 | 0.046 | -0.00(0.05) |
|  | N | 150 | 150 | 150 | 150 | 150 | 130 | 150 | 72 | 150 | 150 | 150 | 141.09(23.69) |
|  | occasions | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 7.91(0.30) |
|  | parameters | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41.00(0.00) |
|  | LL | -3,558 | -2,804 | -3,568 | -2,896 | -3,693 | -2,619 | -3,439 | -1,314 | -3,715 | -4,921 | -3,699 | -3,293( 899) |
|  | AIC | 7,198 | 5,689 | 7,218 | 5,875 | 7,468 | 5,320 | 6,960 | 2,710 | 7,513 | 9,925 | 7,480 | 6,669(1,799) |
|  | BIC | 7,321 | 5,813 | 7,342 | 5,998 | 7,591 | 5,438 | 7,084 | 2,803 | 7,636 | 10,048 | 7,603 | 6,789(1,806) |

## block

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.27 (2.85) <.01 | 101.24 (4.96) <.01 | 105.94 (7.87) <.01 | 110.35 (7.89) <.01 | 118.65 (8.01) <.01 |
| a | Slope | -2.69 (0.52) <.01 | -3.54 (1.08) <.01 | -4.18 (2.32) .07 | -4.01 (2.39) .09 | -4.26 (2.29) .06 |
| a | Level \* age | -1.55 (0.28) <.01 | -1.55 (0.31) <.01 | -1.48 (0.44) <.01 | -1.56 (0.44) <.01 | -1.37 (0.42) <.01 |
| a | Level \* education | --- | 0.79 (0.53) .14 | 0.57 (0.83) .49 | 0.40 (0.83) .63 | 0.40 (0.80) .62 |
| a | Level \* height | --- | --- | 0.04 (0.31) .90 | 0.06 (0.32) .86 | 0.26 (0.28) .36 |
| a | Level \* smoking | --- | --- | --- | 3.08 (3.09) .32 | 2.45 (3.15) .44 |
| a | Level \* cardio | --- | --- | --- | -5.10 (6.53) .43 | -2.47 (6.31) .69 |
| a | Level \* diabetes | --- | --- | --- | -18.94 (6.28) <.01 | -17.07 (5.65) <.01 |
| a | Slope \* age | -0.05 (0.06) .43 | -0.04 (0.07) .52 | -0.03 (0.11) .77 | -0.03 (0.11) .79 | -0.04 (0.12) .74 |
| a | Slope \* education | --- | 0.13 (0.12) .26 | 0.12 (0.22) .60 | 0.10 (0.26) .68 | 0.10 (0.26) .70 |
| a | Slope \* height | --- | --- | 0.06 (0.06) .32 | 0.05 (0.06) .41 | 0.04 (0.07) .57 |
| a | Slope \* smoking | --- | --- | --- | -0.29 (1.13) .80 | -0.28 (1.18) .81 |
| a | Slope \* cardio | --- | --- | --- | -0.16 (1.90) .93 | -0.28 (1.76) .87 |
| a | Slope \* diabetes | --- | --- | --- | 0.67 (1.95) .73 | 0.66 (2.07) .75 |
| b | Level | 20.58 (0.81) <.01 | 13.79 (1.11) <.01 | 18.36 (2.24) <.01 | 18.93 (2.30) <.01 | 19.28 (2.57) <.01 |
| b | Slope | 0.69 (0.18) <.01 | 1.19 (0.26) <.01 | 0.77 (0.43) .08 | 0.80 (0.47) .09 | 0.75 (0.47) .11 |
| b | Level \* age | -0.18 (0.08) .03 | -0.16 (0.08) .04 | -0.12 (0.16) .46 | -0.15 (0.16) .35 | -0.14 (0.16) .38 |
| b | Level \* education | --- | 1.07 (0.12) <.01 | 0.92 (0.23) <.01 | 0.88 (0.24) <.01 | 0.88 (0.25) <.01 |
| b | Level \* height | --- | --- | -0.01 (0.12) .91 | -0.01 (0.11) .90 | -0.01 (0.11) .95 |
| b | Level \* smoking | --- | --- | --- | 1.53 (1.41) .28 | 1.51 (1.43) .29 |
| b | Level \* cardio | --- | --- | --- | -0.41 (2.26) .86 | -0.31 (2.29) .89 |
| b | Level \* diabetes | --- | --- | --- | -4.38 (2.59) .09 | -4.30 (2.57) .09 |
| b | Slope \* age | -0.03 (0.02) .11 | -0.03 (0.02) .11 | -0.04 (0.02) .11 | -0.04 (0.03) .15 | -0.04 (0.03) .15 |
| b | Slope \* education | --- | -0.08 (0.03) <.01 | -0.07 (0.05) .16 | -0.07 (0.05) .17 | -0.07 (0.05) .16 |
| b | Slope \* height | --- | --- | -0.01 (0.02) .69 | -0.01 (0.02) .68 | -0.01 (0.02) .65 |
| b | Slope \* smoking | --- | --- | --- | -0.10 (0.26) .69 | -0.10 (0.26) .70 |
| b | Slope \* cardio | --- | --- | --- | -0.05 (0.71) .94 | -0.06 (0.74) .94 |
| b | Slope \* diabetes | --- | --- | --- | 0.18 (0.38) .64 | 0.17 (0.40) .67 |
| a | Var (Level) | 401.24 (54.97) <.01 | 391.35 (54.50) <.01 | 399.19 (81.26) <.01 | 334.11 (77.39) <.01 | 244.86 (61.14) <.01 |
| a | Var (Slope) | 4.04 (1.27) <.01 | 3.70 (1.29) <.01 | 5.75 (2.95) .05 | 5.72 (3.31) .08 | 5.74 (3.33) .08 |
| a | Var (Residual) | 66.09 (4.08) <.01 | 66.42 (4.24) <.01 | 62.39 (7.96) <.01 | 62.24 (8.25) <.01 | 62.42 (8.62) <.01 |
| a | Covar (Level, Slope) | -2.19 (7.18) .76 | -2.15 (6.91) .76 | -11.30 (14.39) .43 | -9.27 (16.55) .58 | -6.92 (13.45) .61 |
| b | Var (Level) | 66.81 (5.53) <.01 | 53.87 (4.96) <.01 | 51.77 (9.18) <.01 | 46.60 (9.10) <.01 | 46.41 (9.32) <.01 |
| b | Var (Slope) | 0.33 (0.13) .01 | 0.26 (0.13) .04 | 0.14 (0.21) .50 | 0.13 (0.23) .58 | 0.12 (0.24) .60 |
| b | Var (Residual) | 21.66 (0.86) <.01 | 21.65 (0.87) <.01 | 19.84 (1.49) <.01 | 19.85 (1.60) <.01 | 19.85 (1.68) <.01 |
| b | Covar (Level, Slope) | -3.03 (0.89) <.01 | -2.08 (0.84) .01 | -1.28 (1.44) .37 | -1.00 (1.45) .49 | -0.97 (1.51) .52 |
| ab | Covar (Levels) | 40.22 (14.45) <.01 | 31.67 (13.06) .01 | 37.67 (21.52) .08 | 21.28 (20.07) .29 | 15.04 (18.23) .41 |
| ab | Covar (Slopes) | 0.35 (0.32) .27 | 0.45 (0.30) .14 | 0.03 (0.58) .96 | 0.01 (0.58) .98 | 0.01 (0.59) .99 |
| ab | Covar (Residuals) | -0.69 (1.93) .72 | -0.67 (1.95) .73 | -2.26 (2.72) .41 | -2.59 (2.83) .36 | -2.56 (2.94) .38 |
|  | Correlation of Levels | 0.246 | 0.218 | 0.262 | 0.171 | 0.1410 |
|  | Correlation of Slopes | 0.302 | 0.455 | 0.033 | 0.018 | 0.0071 |
|  | Correlation of Residuals | -0.018 | -0.018 | -0.064 | -0.074 | -0.0727 |
|  | N | 563 | 563 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -8,545 | -8,499 | -3,572 | -3,558 | -3,542 |
|  | AIC | 17,132 | 17,048 | 7,203 | 7,198 | 7,173 |
|  | BIC | 17,223 | 17,157 | 7,290 | 7,321 | 7,309 |

## bnt

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.41 (2.87) <.01 | 101.66 (4.97) <.01 | 106.27 (8.15) <.01 | 111.42 (8.18) <.01 | 119.70 (8.32) <.01 |
| a | Slope | -2.72 (0.58) <.01 | -3.59 (1.10) <.01 | -4.11 (2.76) .14 | -4.45 (2.75) .10 | -4.72 (2.95) .11 |
| a | Level \* age | -1.53 (0.29) <.01 | -1.53 (0.30) <.01 | -1.47 (0.46) <.01 | -1.57 (0.50) <.01 | -1.37 (0.46) <.01 |
| a | Level \* education | --- | 0.76 (0.53) .16 | 0.53 (0.83) .52 | 0.32 (0.81) .70 | 0.32 (0.76) .68 |
| a | Level \* height | --- | --- | 0.01 (0.32) .96 | 0.02 (0.32) .95 | 0.22 (0.29) .44 |
| a | Level \* smoking | --- | --- | --- | 2.68 (4.33) .54 | 2.04 (4.07) .62 |
| a | Level \* cardio | --- | --- | --- | -5.81 (6.96) .40 | -3.33 (6.90) .63 |
| a | Level \* diabetes | --- | --- | --- | -18.96 (7.02) .01 | -17.06 (6.27) .01 |
| a | Slope \* age | -0.05 (0.06) .44 | -0.04 (0.07) .50 | -0.04 (0.14) .76 | -0.03 (0.14) .80 | -0.04 (0.14) .75 |
| a | Slope \* education | --- | 0.14 (0.12) .24 | 0.14 (0.24) .57 | 0.16 (0.25) .52 | 0.16 (0.26) .54 |
| a | Slope \* height | --- | --- | 0.07 (0.06) .24 | 0.07 (0.07) .26 | 0.06 (0.07) .37 |
| a | Slope \* smoking | --- | --- | --- | -0.07 (1.18) .95 | -0.06 (1.26) .96 |
| a | Slope \* cardio | --- | --- | --- | 0.77 (1.99) .70 | 0.67 (1.97) .73 |
| a | Slope \* diabetes | --- | --- | --- | 0.38 (2.82) .89 | 0.38 (2.92) .90 |
| b | Level | 11.87 (0.25) <.01 | 9.81 (0.29) <.01 | 10.34 (0.64) <.01 | 10.77 (0.62) <.01 | 10.80 (0.64) <.01 |
| b | Slope | -0.01 (0.05) .81 | 0.04 (0.07) .59 | 0.01 (0.12) .94 | -0.05 (0.16) .76 | -0.06 (0.17) .73 |
| b | Level \* age | -0.06 (0.02) .01 | -0.06 (0.02) .01 | -0.05 (0.05) .35 | -0.06 (0.05) .28 | -0.06 (0.06) .30 |
| b | Level \* education | --- | 0.32 (0.03) <.01 | 0.30 (0.06) <.01 | 0.27 (0.06) <.01 | 0.27 (0.06) <.01 |
| b | Level \* height | --- | --- | 0.01 (0.03) .80 | 0.00 (0.03) .90 | 0.00 (0.03) .88 |
| b | Level \* smoking | --- | --- | --- | 0.45 (0.26) .08 | 0.45 (0.22) .05 |
| b | Level \* cardio | --- | --- | --- | -0.83 (0.57) .14 | -0.82 (0.52) .12 |
| b | Level \* diabetes | --- | --- | --- | -1.63 (0.52) <.01 | -1.62 (0.51) <.01 |
| b | Slope \* age | -0.01 (0.00) .14 | -0.01 (0.00) .12 | -0.01 (0.01) .46 | -0.01 (0.01) .58 | -0.01 (0.01) .56 |
| b | Slope \* education | --- | -0.01 (0.01) .37 | -0.01 (0.02) .60 | -0.00 (0.02) .84 | -0.00 (0.02) .84 |
| b | Slope \* height | --- | --- | -0.00 (0.01) .93 | 0.00 (0.01) .94 | 0.00 (0.01) .97 |
| b | Slope \* smoking | --- | --- | --- | 0.01 (0.11) .93 | 0.01 (0.11) .92 |
| b | Slope \* cardio | --- | --- | --- | 0.21 (0.19) .26 | 0.21 (0.19) .28 |
| b | Slope \* diabetes | --- | --- | --- | -0.04 (0.12) .77 | -0.04 (0.13) .76 |
| a | Var (Level) | 399.01 (53.86) <.01 | 389.19 (53.12) <.01 | 403.23 (81.20) <.01 | 340.41 (76.17) <.01 | 251.91 (64.67) <.01 |
| a | Var (Slope) | 4.29 (1.58) .01 | 3.97 (1.56) .01 | 6.93 (3.49) .05 | 7.28 (4.13) .08 | 7.39 (4.26) .08 |
| a | Var (Residual) | 65.86 (4.16) <.01 | 66.05 (4.27) <.01 | 61.21 (8.17) <.01 | 61.11 (8.32) <.01 | 61.22 (8.54) <.01 |
| a | Covar (Level, Slope) | -1.67 (7.42) .82 | -1.75 (7.09) .80 | -13.50 (16.39) .41 | -13.50 (17.31) .44 | -11.28 (14.42) .43 |
| b | Var (Level) | 5.60 (0.51) <.01 | 4.36 (0.42) <.01 | 3.50 (0.89) <.01 | 2.71 (0.82) <.01 | 2.71 (0.84) <.01 |
| b | Var (Slope) | 0.01 (0.01) .51 | 0.01 (0.01) .47 | 0.02 (0.02) .33 | 0.03 (0.03) .23 | 0.03 (0.03) .24 |
| b | Var (Residual) | 1.93 (0.08) <.01 | 1.93 (0.08) <.01 | 1.78 (0.14) <.01 | 1.75 (0.15) <.01 | 1.75 (0.15) <.01 |
| b | Covar (Level, Slope) | 0.02 (0.08) .77 | 0.05 (0.07) .49 | 0.20 (0.14) .15 | 0.24 (0.15) .10 | 0.24 (0.15) .11 |
| ab | Covar (Levels) | 8.03 (4.95) .10 | 5.34 (4.51) .24 | 9.22 (7.16) .20 | 2.61 (5.51) .64 | 1.28 (4.92) .79 |
| ab | Covar (Slopes) | 0.11 (0.11) .33 | 0.11 (0.11) .30 | 0.29 (0.23) .22 | 0.32 (0.28) .25 | 0.33 (0.30) .28 |
| ab | Covar (Residuals) | 0.24 (0.79) .76 | 0.23 (0.80) .77 | -0.11 (1.18) .93 | -0.05 (1.25) .97 | 0.02 (1.28) .99 |
|  | Correlation of Levels | 0.170 | 0.13 | 0.25 | 0.0859 | 0.0491 |
|  | Correlation of Slopes | 0.539 | 0.56 | 0.69 | 0.6632 | 0.6641 |
|  | Correlation of Residuals | 0.021 | 0.02 | -0.01 | -0.0045 | 0.0021 |
|  | N | 594 | 594 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -6,739 | -6,682 | -2,825 | -2,804 | -2,787 |
|  | AIC | 13,520 | 13,413 | 5,709 | 5,689 | 5,665 |
|  | BIC | 13,612 | 13,523 | 5,796 | 5,813 | 5,800 |

## categories

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.67 (2.88) <.01 | 102.15 (4.93) <.01 | 106.24 (7.82) <.01 | 110.60 (7.95) <.01 | 118.86 (8.04) <.01 |
| a | Slope | -2.71 (0.54) <.01 | -3.75 (1.06) <.01 | -3.92 (2.31) .09 | -3.98 (2.60) .13 | -4.19 (2.62) .11 |
| a | Level \* age | -1.58 (0.29) <.01 | -1.58 (0.30) <.01 | -1.49 (0.47) <.01 | -1.56 (0.53) <.01 | -1.35 (0.47) <.01 |
| a | Level \* education | --- | 0.72 (0.52) .17 | 0.57 (0.83) .49 | 0.37 (0.80) .64 | 0.36 (0.75) .63 |
| a | Level \* height | --- | --- | 0.05 (0.33) .87 | 0.07 (0.34) .84 | 0.27 (0.32) .40 |
| a | Level \* smoking | --- | --- | --- | 2.98 (4.10) .47 | 2.33 (3.98) .56 |
| a | Level \* cardio | --- | --- | --- | -4.68 (7.19) .52 | -2.24 (6.78) .74 |
| a | Level \* diabetes | --- | --- | --- | -19.04 (5.80) <.01 | -17.24 (5.30) <.01 |
| a | Slope \* age | -0.06 (0.06) .30 | -0.06 (0.07) .40 | -0.06 (0.12) .60 | -0.06 (0.13) .62 | -0.07 (0.13) .57 |
| a | Slope \* education | --- | 0.16 (0.12) .17 | 0.14 (0.23) .55 | 0.15 (0.28) .60 | 0.14 (0.28) .62 |
| a | Slope \* height | --- | --- | 0.06 (0.07) .38 | 0.06 (0.07) .45 | 0.04 (0.07) .58 |
| a | Slope \* smoking | --- | --- | --- | -0.21 (1.21) .86 | -0.21 (1.27) .87 |
| a | Slope \* cardio | --- | --- | --- | 0.21 (2.48) .93 | 0.11 (2.48) .96 |
| a | Slope \* diabetes | --- | --- | --- | 0.92 (2.03) .65 | 0.94 (2.07) .65 |
| b | Level | 40.51 (0.74) <.01 | 35.58 (1.05) <.01 | 37.63 (2.57) <.01 | 38.66 (2.86) <.01 | 38.66 (3.01) <.01 |
| b | Slope | -0.22 (0.19) .24 | -0.51 (0.29) .08 | -0.77 (0.69) .27 | -0.83 (0.78) .28 | -0.66 (0.74) .37 |
| b | Level \* age | -0.28 (0.08) <.01 | -0.26 (0.08) <.01 | -0.32 (0.19) .08 | -0.34 (0.19) .06 | -0.34 (0.19) .07 |
| b | Level \* education | --- | 0.78 (0.10) <.01 | 0.76 (0.26) <.01 | 0.72 (0.29) .01 | 0.72 (0.29) .01 |
| b | Level \* height | --- | --- | -0.11 (0.14) .43 | -0.10 (0.14) .48 | -0.10 (0.15) .50 |
| b | Level \* smoking | --- | --- | --- | 0.74 (1.39) .59 | 0.75 (1.34) .58 |
| b | Level \* cardio | --- | --- | --- | 1.12 (3.23) .73 | 1.14 (3.15) .72 |
| b | Level \* diabetes | --- | --- | --- | -5.16 (2.31) .02 | -5.15 (2.38) .03 |
| b | Slope \* age | -0.04 (0.02) .04 | -0.04 (0.02) .05 | -0.03 (0.04) .52 | -0.03 (0.04) .48 | -0.03 (0.05) .55 |
| b | Slope \* education | --- | 0.04 (0.03) .16 | 0.07 (0.06) .24 | 0.08 (0.07) .26 | 0.07 (0.07) .26 |
| b | Slope \* height | --- | --- | 0.00 (0.03) .85 | 0.00 (0.03) .89 | 0.01 (0.03) .82 |
| b | Slope \* smoking | --- | --- | --- | 0.10 (0.39) .81 | 0.08 (0.36) .82 |
| b | Slope \* cardio | --- | --- | --- | -0.04 (0.87) .96 | 0.00 (0.91) .99 |
| b | Slope \* diabetes | --- | --- | --- | 0.06 (0.67) .93 | 0.10 (0.67) .88 |
| a | Var (Level) | 394.17 (54.59) <.01 | 384.52 (53.78) <.01 | 398.88 (79.69) <.01 | 333.48 (83.54) <.01 | 245.52 (65.56) <.01 |
| a | Var (Slope) | 4.17 (1.35) <.01 | 3.81 (1.33) <.01 | 6.10 (3.03) .04 | 6.05 (3.53) .09 | 6.04 (3.46) .08 |
| a | Var (Residual) | 66.10 (4.16) <.01 | 66.37 (4.25) <.01 | 61.91 (7.49) <.01 | 61.62 (7.61) <.01 | 61.75 (7.66) <.01 |
| a | Covar (Level, Slope) | 0.18 (7.12) .98 | 0.02 (6.88) .99 | -11.90 (15.88) .45 | -9.30 (19.05) .63 | -7.17 (15.08) .64 |
| b | Var (Level) | 60.58 (5.14) <.01 | 53.19 (4.72) <.01 | 57.82 (12.34) <.01 | 52.84 (13.27) <.01 | 52.96 (13.52) <.01 |
| b | Var (Slope) | 0.76 (0.17) <.01 | 0.75 (0.16) <.01 | 0.89 (0.36) .01 | 0.91 (0.44) .04 | 0.88 (0.44) .04 |
| b | Var (Residual) | 17.93 (0.79) <.01 | 17.90 (0.79) <.01 | 17.36 (1.25) <.01 | 17.30 (1.56) <.01 | 17.30 (1.56) <.01 |
| b | Covar (Level, Slope) | 0.28 (0.78) .72 | -0.06 (0.77) .94 | 0.54 (1.74) .76 | 0.53 (1.93) .78 | 0.48 (2.00) .81 |
| ab | Covar (Levels) | 31.50 (14.64) .03 | 24.85 (13.80) .07 | 16.88 (20.94) .42 | 1.48 (17.77) .93 | -0.01 (15.77) .99 |
| ab | Covar (Slopes) | 0.68 (0.35) .05 | 0.64 (0.35) .06 | 0.84 (0.94) .38 | 0.89 (1.13) .43 | 0.97 (1.18) .41 |
| ab | Covar (Residuals) | 0.32 (1.88) .86 | 0.22 (1.90) .91 | 2.00 (3.51) .57 | 1.58 (3.67) .67 | 1.42 (3.78) .71 |
|  | Correlation of Levels | 0.2038 | 0.1737 | 0.111 | 0.011 | -9.6e-05 |
|  | Correlation of Slopes | 0.3828 | 0.3790 | 0.360 | 0.380 | 4.2e-01 |
|  | Correlation of Residuals | 0.0093 | 0.0065 | 0.061 | 0.048 | 4.3e-02 |
|  | N | 593 | 593 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -8,805 | -8,767 | -3,582 | -3,568 | -3,552 |
|  | AIC | 17,652 | 17,584 | 7,223 | 7,218 | 7,194 |
|  | BIC | 17,744 | 17,693 | 7,310 | 7,342 | 7,329 |

## digit\_tot

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 105.69 (2.87) <.01 | 100.50 (4.88) <.01 | 105.59 (7.91) <.01 | 109.88 (7.85) <.01 | 118.18 (7.92) <.01 |
| a | Slope | -2.49 (0.58) <.01 | -3.36 (1.07) <.01 | -3.43 (2.18) .12 | -3.29 (2.37) .16 | -3.60 (2.40) .13 |
| a | Level \* age | -1.50 (0.28) <.01 | -1.49 (0.29) <.01 | -1.52 (0.47) <.01 | -1.60 (0.49) <.01 | -1.39 (0.47) <.01 |
| a | Level \* education | --- | 0.82 (0.52) .11 | 0.65 (0.82) .43 | 0.46 (0.79) .56 | 0.46 (0.75) .54 |
| a | Level \* height | --- | --- | 0.02 (0.34) .94 | 0.03 (0.34) .92 | 0.24 (0.30) .42 |
| a | Level \* smoking | --- | --- | --- | 3.21 (3.92) .41 | 2.59 (3.85) .50 |
| a | Level \* cardio | --- | --- | --- | -5.31 (8.65) .54 | -2.78 (8.20) .73 |
| a | Level \* diabetes | --- | --- | --- | -18.72 (5.61) <.01 | -16.88 (5.37) <.01 |
| a | Slope \* age | -0.06 (0.06) .38 | -0.06 (0.07) .38 | -0.04 (0.12) .72 | -0.04 (0.13) .79 | -0.05 (0.13) .72 |
| a | Slope \* education | --- | 0.13 (0.12) .25 | 0.08 (0.23) .74 | 0.07 (0.27) .80 | 0.06 (0.27) .83 |
| a | Slope \* height | --- | --- | 0.07 (0.07) .29 | 0.07 (0.07) .35 | 0.05 (0.07) .49 |
| a | Slope \* smoking | --- | --- | --- | -0.38 (1.33) .77 | -0.37 (1.36) .78 |
| a | Slope \* cardio | --- | --- | --- | 0.12 (2.42) .96 | -0.02 (2.35) .99 |
| a | Slope \* diabetes | --- | --- | --- | 0.58 (2.06) .78 | 0.58 (2.22) .79 |
| b | Level | 13.51 (0.30) <.01 | 11.19 (0.40) <.01 | 13.29 (0.84) <.01 | 13.54 (0.90) <.01 | 13.43 (1.00) <.01 |
| b | Slope | 0.26 (0.07) <.01 | 0.36 (0.10) <.01 | 0.26 (0.17) .13 | 0.30 (0.18) .10 | 0.30 (0.20) .15 |
| b | Level \* age | -0.04 (0.03) .20 | -0.03 (0.03) .27 | -0.06 (0.06) .33 | -0.07 (0.07) .33 | -0.07 (0.07) .30 |
| b | Level \* education | --- | 0.37 (0.04) <.01 | 0.30 (0.08) <.01 | 0.29 (0.09) <.01 | 0.29 (0.09) <.01 |
| b | Level \* height | --- | --- | 0.03 (0.05) .57 | 0.03 (0.05) .57 | 0.02 (0.05) .60 |
| b | Level \* smoking | --- | --- | --- | 0.42 (0.50) .41 | 0.42 (0.48) .38 |
| b | Level \* cardio | --- | --- | --- | -0.33 (1.07) .76 | -0.36 (1.09) .74 |
| b | Level \* diabetes | --- | --- | --- | -1.60 (0.70) .02 | -1.63 (0.75) .03 |
| b | Slope \* age | -0.01 (0.01) .27 | -0.01 (0.01) .26 | -0.02 (0.01) .21 | -0.02 (0.01) .21 | -0.02 (0.01) .21 |
| b | Slope \* education | --- | -0.02 (0.01) .14 | -0.02 (0.02) .39 | -0.02 (0.02) .34 | -0.02 (0.02) .36 |
| b | Slope \* height | --- | --- | -0.01 (0.01) .13 | -0.01 (0.01) .13 | -0.01 (0.01) .15 |
| b | Slope \* smoking | --- | --- | --- | -0.02 (0.14) .87 | -0.02 (0.14) .87 |
| b | Slope \* cardio | --- | --- | --- | -0.11 (0.30) .72 | -0.11 (0.31) .72 |
| b | Slope \* diabetes | --- | --- | --- | 0.06 (0.14) .66 | 0.06 (0.15) .68 |
| a | Var (Level) | 403.83 (53.82) <.01 | 388.50 (52.32) <.01 | 411.02 (79.83) <.01 | 345.24 (79.33) <.01 | 253.89 (62.80) <.01 |
| a | Var (Slope) | 4.17 (1.37) <.01 | 3.76 (1.33) <.01 | 6.42 (3.16) .04 | 6.29 (4.23) .14 | 6.19 (4.00) .12 |
| a | Var (Residual) | 66.21 (4.06) <.01 | 66.72 (4.17) <.01 | 61.56 (7.67) <.01 | 61.50 (8.49) <.01 | 61.67 (8.65) <.01 |
| a | Covar (Level, Slope) | -2.19 (7.25) .76 | -1.05 (6.83) .88 | -16.08 (15.36) .29 | -13.90 (20.88) .51 | -10.41 (16.70) .53 |
| b | Var (Level) | 10.55 (0.80) <.01 | 8.97 (0.72) <.01 | 6.41 (1.28) <.01 | 5.87 (1.36) <.01 | 5.85 (1.40) <.01 |
| b | Var (Slope) | 0.10 (0.03) <.01 | 0.09 (0.03) <.01 | 0.05 (0.03) .12 | 0.04 (0.03) .15 | 0.04 (0.03) .19 |
| b | Var (Residual) | 2.70 (0.12) <.01 | 2.70 (0.12) <.01 | 2.41 (0.17) <.01 | 2.41 (0.18) <.01 | 2.41 (0.19) <.01 |
| b | Covar (Level, Slope) | -0.34 (0.14) .02 | -0.27 (0.13) .04 | 0.02 (0.15) .90 | 0.03 (0.16) .84 | 0.03 (0.16) .83 |
| ab | Covar (Levels) | 20.30 (6.32) <.01 | 17.04 (5.76) <.01 | 14.14 (7.54) .06 | 7.93 (7.90) .32 | 9.19 (7.20) .20 |
| ab | Covar (Slopes) | 0.30 (0.18) .10 | 0.32 (0.18) .08 | 0.36 (0.23) .12 | 0.34 (0.23) .14 | 0.35 (0.23) .14 |
| ab | Covar (Residuals) | 0.63 (0.70) .37 | 0.61 (0.71) .39 | 0.85 (0.99) .39 | 0.86 (1.03) .40 | 0.81 (1.05) .44 |
|  | Correlation of Levels | 0.311 | 0.289 | 0.275 | 0.176 | 0.239 |
|  | Correlation of Slopes | 0.473 | 0.548 | 0.652 | 0.652 | 0.672 |
|  | Correlation of Residuals | 0.047 | 0.045 | 0.069 | 0.071 | 0.066 |
|  | N | 595 | 595 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -7,136 | -7,095 | -2,911 | -2,896 | -2,879 |
|  | AIC | 14,314 | 14,240 | 5,879 | 5,875 | 5,848 |
|  | BIC | 14,407 | 14,349 | 5,967 | 5,998 | 5,984 |

## fas

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 105.17 (2.89) <.01 | 100.95 (4.90) <.01 | 105.65 (7.87) <.01 | 109.60 (8.33) <.01 | 117.84 (8.51) <.01 |
| a | Slope | -2.61 (0.61) <.01 | -3.66 (1.09) <.01 | -3.27 (2.28) .15 | -3.10 (2.44) .20 | -3.40 (2.41) .16 |
| a | Level \* age | -1.45 (0.28) <.01 | -1.43 (0.29) <.01 | -1.44 (0.44) <.01 | -1.54 (0.49) <.01 | -1.33 (0.50) .01 |
| a | Level \* education | --- | 0.66 (0.51) .19 | 0.46 (0.82) .57 | 0.34 (0.81) .67 | 0.36 (0.78) .65 |
| a | Level \* height | --- | --- | 0.07 (0.31) .83 | 0.06 (0.33) .85 | 0.27 (0.31) .38 |
| a | Level \* smoking | --- | --- | --- | 3.34 (3.89) .39 | 2.69 (4.03) .50 |
| a | Level \* cardio | --- | --- | --- | -4.57 (8.16) .58 | -2.00 (7.74) .80 |
| a | Level \* diabetes | --- | --- | --- | -18.62 (5.91) <.01 | -16.84 (5.48) <.01 |
| a | Slope \* age | -0.06 (0.06) .36 | -0.06 (0.07) .40 | -0.06 (0.12) .63 | -0.05 (0.13) .68 | -0.07 (0.15) .66 |
| a | Slope \* education | --- | 0.16 (0.11) .15 | 0.10 (0.23) .67 | 0.08 (0.26) .77 | 0.07 (0.26) .80 |
| a | Slope \* height | --- | --- | 0.07 (0.07) .31 | 0.07 (0.07) .37 | 0.05 (0.07) .51 |
| a | Slope \* smoking | --- | --- | --- | -0.34 (1.35) .80 | -0.33 (1.47) .82 |
| a | Slope \* cardio | --- | --- | --- | -0.07 (2.35) .97 | -0.22 (2.16) .92 |
| a | Slope \* diabetes | --- | --- | --- | 0.75 (2.09) .72 | 0.74 (2.16) .73 |
| b | Level | 34.15 (1.09) <.01 | 24.04 (1.45) <.01 | 29.56 (3.38) <.01 | 30.45 (3.55) <.01 | 30.55 (3.80) <.01 |
| b | Slope | 0.55 (0.21) .01 | 0.68 (0.32) .03 | 0.50 (0.64) .43 | 0.42 (0.71) .56 | 0.52 (0.77) .50 |
| b | Level \* age | -0.11 (0.12) .36 | -0.07 (0.10) .50 | -0.31 (0.25) .22 | -0.34 (0.27) .20 | -0.34 (0.27) .22 |
| b | Level \* education | --- | 1.57 (0.15) <.01 | 1.37 (0.35) <.01 | 1.28 (0.36) <.01 | 1.28 (0.36) <.01 |
| b | Level \* height | --- | --- | -0.11 (0.17) .52 | -0.12 (0.17) .51 | -0.11 (0.18) .53 |
| b | Level \* smoking | --- | --- | --- | 2.91 (1.56) .06 | 2.91 (1.48) .05 |
| b | Level \* cardio | --- | --- | --- | -2.01 (3.83) .60 | -1.94 (3.96) .62 |
| b | Level \* diabetes | --- | --- | --- | -7.13 (2.77) .01 | -7.07 (2.91) .01 |
| b | Slope \* age | -0.03 (0.02) .10 | -0.04 (0.02) .10 | -0.06 (0.04) .09 | -0.06 (0.04) .12 | -0.06 (0.04) .13 |
| b | Slope \* education | --- | -0.02 (0.04) .58 | 0.01 (0.06) .83 | 0.02 (0.07) .75 | 0.02 (0.07) .77 |
| b | Slope \* height | --- | --- | 0.00 (0.02) .86 | 0.00 (0.02) .97 | 0.00 (0.02) .92 |
| b | Slope \* smoking | --- | --- | --- | -0.07 (0.38) .86 | -0.08 (0.41) .85 |
| b | Slope \* cardio | --- | --- | --- | 0.06 (0.88) .95 | 0.07 (0.83) .93 |
| b | Slope \* diabetes | --- | --- | --- | 0.50 (0.54) .35 | 0.52 (0.59) .38 |
| a | Var (Level) | 397.99 (52.45) <.01 | 386.40 (51.29) <.01 | 420.10 (81.32) <.01 | 351.56 (77.65) <.01 | 260.48 (67.42) <.01 |
| a | Var (Slope) | 4.53 (1.42) <.01 | 4.23 (1.39) <.01 | 7.09 (3.44) .04 | 6.90 (3.81) .07 | 6.82 (3.75) .07 |
| a | Var (Residual) | 65.74 (4.17) <.01 | 66.08 (4.31) <.01 | 60.73 (7.26) <.01 | 60.53 (7.67) <.01 | 60.63 (7.96) <.01 |
| a | Covar (Level, Slope) | -1.90 (7.11) .79 | -1.63 (6.85) .81 | -19.02 (15.38) .22 | -15.92 (16.94) .35 | -12.55 (15.09) .40 |
| b | Var (Level) | 143.35 (11.46) <.01 | 114.58 (9.08) <.01 | 114.25 (22.04) <.01 | 99.22 (21.35) <.01 | 99.52 (22.76) <.01 |
| b | Var (Slope) | 0.32 (0.23) .17 | 0.31 (0.23) .18 | 0.17 (0.31) .58 | 0.25 (0.38) .52 | 0.24 (0.44) .59 |
| b | Var (Residual) | 28.49 (1.26) <.01 | 28.46 (1.25) <.01 | 25.82 (1.84) <.01 | 25.44 (1.90) <.01 | 25.43 (1.93) <.01 |
| b | Covar (Level, Slope) | 0.02 (1.25) .99 | 0.42 (1.10) .70 | 2.25 (2.33) .33 | 2.84 (2.73) .30 | 2.73 (3.09) .38 |
| ab | Covar (Levels) | 81.01 (21.90) <.01 | 69.28 (19.85) <.01 | 81.43 (32.40) .01 | 48.13 (27.96) .08 | 42.83 (25.82) .10 |
| ab | Covar (Slopes) | 0.95 (0.36) .01 | 1.02 (0.37) .01 | 0.82 (0.56) .14 | 0.64 (0.63) .31 | 0.68 (0.71) .34 |
| ab | Covar (Residuals) | -0.05 (2.47) .98 | -0.14 (2.49) .96 | -2.73 (2.91) .35 | -2.60 (3.11) .40 | -2.74 (3.31) .41 |
|  | Correlation of Levels | 0.3391 | 0.3292 | 0.372 | 0.258 | 0.27 |
|  | Correlation of Slopes | 0.7909 | 0.8905 | 0.740 | 0.489 | 0.53 |
|  | Correlation of Residuals | -0.0012 | -0.0032 | -0.069 | -0.066 | -0.07 |
|  | N | 572 | 572 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -9,032 | -8,976 | -3,709 | -3,693 | -3,677 |
|  | AIC | 18,106 | 18,001 | 7,476 | 7,468 | 7,443 |
|  | BIC | 18,197 | 18,110 | 7,564 | 7,591 | 7,579 |

## information

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 105.97 (2.95) <.01 | 102.00 (5.12) <.01 | 105.78 (8.48) <.01 | 109.79 (8.61) <.01 | 117.95 (8.60) <.01 |
| a | Slope | -2.37 (0.58) <.01 | -3.52 (1.14) <.01 | -3.41 (2.40) .15 | -3.18 (2.65) .23 | -3.38 (2.64) .20 |
| a | Level \* age | -1.45 (0.29) <.01 | -1.46 (0.30) <.01 | -1.49 (0.49) <.01 | -1.55 (0.52) <.01 | -1.35 (0.51) .01 |
| a | Level \* education | --- | 0.64 (0.54) .24 | 0.56 (0.88) .52 | 0.40 (0.84) .63 | 0.40 (0.84) .63 |
| a | Level \* height | --- | --- | 0.01 (0.36) .97 | 0.03 (0.36) .94 | 0.24 (0.31) .45 |
| a | Level \* smoking | --- | --- | --- | 3.02 (4.24) .48 | 2.42 (4.09) .56 |
| a | Level \* cardio | --- | --- | --- | -4.68 (9.09) .61 | -2.10 (8.15) .80 |
| a | Level \* diabetes | --- | --- | --- | -18.57 (6.81) .01 | -16.72 (6.07) .01 |
| a | Slope \* age | -0.07 (0.06) .25 | -0.07 (0.07) .31 | -0.06 (0.14) .65 | -0.06 (0.15) .70 | -0.07 (0.16) .67 |
| a | Slope \* education | --- | 0.17 (0.12) .15 | 0.11 (0.25) .65 | 0.09 (0.29) .75 | 0.08 (0.31) .80 |
| a | Slope \* height | --- | --- | 0.07 (0.07) .28 | 0.07 (0.07) .32 | 0.05 (0.07) .46 |
| a | Slope \* smoking | --- | --- | --- | -0.32 (1.15) .78 | -0.32 (1.21) .79 |
| a | Slope \* cardio | --- | --- | --- | -0.05 (2.80) .98 | -0.20 (3.00) .95 |
| a | Slope \* diabetes | --- | --- | --- | 0.52 (2.17) .81 | 0.52 (2.14) .81 |
| b | Level | 19.59 (0.58) <.01 | 15.70 (0.72) <.01 | 13.05 (1.58) <.01 | 13.23 (2.11) <.01 | 13.33 (2.33) <.01 |
| b | Slope | -0.46 (0.14) <.01 | -0.60 (0.22) .01 | 0.05 (0.49) .92 | 0.24 (0.58) .67 | 0.29 (0.64) .65 |
| b | Level \* age | -0.04 (0.06) .45 | -0.04 (0.05) .47 | -0.13 (0.12) .26 | -0.13 (0.14) .36 | -0.13 (0.14) .35 |
| b | Level \* education | --- | 0.65 (0.08) <.01 | 0.87 (0.19) <.01 | 0.88 (0.25) <.01 | 0.88 (0.25) <.01 |
| b | Level \* height | --- | --- | -0.01 (0.07) .82 | -0.01 (0.08) .91 | -0.01 (0.08) .93 |
| b | Level \* smoking | --- | --- | --- | 0.28 (0.81) .73 | 0.27 (0.74) .71 |
| b | Level \* cardio | --- | --- | --- | 0.72 (2.11) .73 | 0.73 (2.19) .74 |
| b | Level \* diabetes | --- | --- | --- | -2.63 (1.35) .05 | -2.63 (1.56) .09 |
| b | Slope \* age | 0.00 (0.01) .70 | 0.01 (0.01) .64 | 0.00 (0.03) .87 | 0.00 (0.04) .92 | 0.00 (0.04) .88 |
| b | Slope \* education | --- | 0.02 (0.02) .48 | -0.02 (0.05) .71 | -0.03 (0.06) .58 | -0.03 (0.06) .59 |
| b | Slope \* height | --- | --- | 0.01 (0.02) .73 | 0.00 (0.03) .90 | 0.00 (0.03) .85 |
| b | Slope \* smoking | --- | --- | --- | -0.00 (0.38) .99 | -0.01 (0.39) .99 |
| b | Slope \* cardio | --- | --- | --- | -0.28 (0.38) .47 | -0.26 (0.37) .49 |
| b | Slope \* diabetes | --- | --- | --- | -0.22 (0.50) .65 | -0.22 (0.48) .65 |
| a | Var (Level) | 400.27 (55.44) <.01 | 390.91 (54.26) <.01 | 411.77 (88.38) <.01 | 347.79 (87.62) <.01 | 259.33 (73.21) <.01 |
| a | Var (Slope) | 4.59 (1.65) <.01 | 4.16 (1.64) .01 | 6.72 (3.27) .04 | 6.70 (3.70) .07 | 6.64 (3.93) .09 |
| a | Var (Residual) | 65.85 (4.65) <.01 | 66.10 (4.83) <.01 | 60.11 (7.79) <.01 | 59.91 (8.51) <.01 | 60.03 (8.85) <.01 |
| a | Covar (Level, Slope) | -2.74 (7.67) .72 | -2.68 (7.24) .71 | -16.32 (16.69) .33 | -14.57 (18.73) .44 | -11.98 (15.40) .44 |
| b | Var (Level) | 26.49 (2.94) <.01 | 21.63 (2.38) <.01 | 12.20 (3.49) <.01 | 11.16 (3.98) <.01 | 11.12 (4.21) .01 |
| b | Var (Slope) | 0.24 (0.10) .01 | 0.23 (0.09) .01 | 0.12 (0.27) .66 | 0.10 (0.28) .72 | 0.10 (0.29) .74 |
| b | Var (Residual) | 8.56 (0.38) <.01 | 8.56 (0.38) <.01 | 7.38 (0.69) <.01 | 7.36 (0.74) <.01 | 7.37 (0.77) <.01 |
| b | Covar (Level, Slope) | -0.79 (0.44) .07 | -0.82 (0.39) .04 | 0.68 (0.85) .43 | 0.57 (1.05) .59 | 0.57 (1.08) .59 |
| ab | Covar (Levels) | 8.35 (9.39) .37 | 5.15 (9.45) .59 | 15.27 (13.40) .25 | 7.58 (13.95) .59 | 6.87 (12.15) .57 |
| ab | Covar (Slopes) | -0.27 (0.36) .44 | -0.28 (0.36) .43 | -0.48 (0.71) .49 | -0.45 (0.92) .63 | -0.42 (0.94) .66 |
| ab | Covar (Residuals) | -0.29 (1.20) .81 | -0.30 (1.22) .81 | -0.33 (1.97) .87 | -0.37 (2.21) .87 | -0.24 (2.53) .92 |
|  | Correlation of Levels | 0.081 | 0.056 | 0.216 | 0.122 | 0.128 |
|  | Correlation of Slopes | -0.259 | -0.287 | -0.545 | -0.542 | -0.531 |
|  | Correlation of Residuals | -0.012 | -0.013 | -0.016 | -0.018 | -0.011 |
|  | N | 524 | 524 | 130 | 130 | 130 |
|  | occasions | 7 | 7 | 7 | 7 | 7 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -7,096 | -7,044 | -2,632 | -2,619 | -2,603 |
|  | AIC | 14,234 | 14,138 | 5,323 | 5,320 | 5,296 |
|  | BIC | 14,324 | 14,244 | 5,406 | 5,438 | 5,425 |

## logic\_tot

Gender = *female*; Process (a) = *gait*; Process (b) = *logic\_tot*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.10 (2.92) <.01 | 101.40 (4.99) <.01 | 106.11 (8.80) <.01 | 110.35 (8.68) <.01 | 118.54 (8.96) <.01 |
| a | Slope | -2.60 (0.58) <.01 | -3.44 (1.10) <.01 | -3.74 (2.37) .12 | -3.65 (2.58) .16 | -3.87 (2.63) .14 |
| a | Level \* age | -1.52 (0.29) <.01 | -1.52 (0.30) <.01 | -1.52 (0.47) <.01 | -1.59 (0.49) <.01 | -1.38 (0.47) <.01 |
| a | Level \* education | --- | 0.74 (0.52) .16 | 0.62 (0.92) .50 | 0.43 (0.85) .61 | 0.43 (0.82) .60 |
| a | Level \* height | --- | --- | 0.02 (0.32) .94 | 0.04 (0.33) .91 | 0.24 (0.30) .42 |
| a | Level \* smoking | --- | --- | --- | 2.98 (3.41) .38 | 2.37 (3.48) .50 |
| a | Level \* cardio | --- | --- | --- | -4.75 (6.81) .49 | -2.27 (6.84) .74 |
| a | Level \* diabetes | --- | --- | --- | -18.91 (6.24) <.01 | -17.06 (5.88) <.01 |
| a | Slope \* age | -0.05 (0.06) .40 | -0.05 (0.07) .48 | -0.04 (0.12) .73 | -0.04 (0.13) .74 | -0.05 (0.13) .68 |
| a | Slope \* education | --- | 0.13 (0.12) .27 | 0.11 (0.24) .65 | 0.10 (0.27) .71 | 0.09 (0.28) .74 |
| a | Slope \* height | --- | --- | 0.08 (0.08) .29 | 0.07 (0.08) .35 | 0.06 (0.08) .46 |
| a | Slope \* smoking | --- | --- | --- | -0.25 (1.15) .82 | -0.25 (1.20) .83 |
| a | Slope \* cardio | --- | --- | --- | 0.20 (2.05) .92 | 0.07 (1.96) .97 |
| a | Slope \* diabetes | --- | --- | --- | 0.67 (2.10) .75 | 0.69 (2.20) .75 |
| b | Level | 21.61 (0.57) <.01 | 16.53 (0.80) <.01 | 18.15 (1.84) <.01 | 18.27 (2.09) <.01 | 18.23 (2.23) <.01 |
| b | Slope | 0.13 (0.14) .37 | 0.05 (0.23) .84 | -0.03 (0.35) .93 | -0.09 (0.44) .83 | 0.07 (0.50) .89 |
| b | Level \* age | -0.22 (0.06) <.01 | -0.21 (0.06) <.01 | -0.11 (0.12) .38 | -0.12 (0.13) .32 | -0.12 (0.13) .34 |
| b | Level \* education | --- | 0.79 (0.08) <.01 | 0.73 (0.20) <.01 | 0.71 (0.21) <.01 | 0.71 (0.22) <.01 |
| b | Level \* height | --- | --- | 0.08 (0.10) .39 | 0.08 (0.10) .40 | 0.08 (0.10) .41 |
| b | Level \* smoking | --- | --- | --- | 0.62 (1.09) .57 | 0.62 (1.13) .58 |
| b | Level \* cardio | --- | --- | --- | 0.30 (2.67) .91 | 0.35 (2.84) .90 |
| b | Level \* diabetes | --- | --- | --- | -1.15 (1.90) .55 | -1.10 (2.05) .59 |
| b | Slope \* age | -0.01 (0.01) .31 | -0.01 (0.02) .36 | -0.02 (0.03) .57 | -0.01 (0.03) .64 | -0.01 (0.03) .67 |
| b | Slope \* education | --- | 0.01 (0.02) .58 | 0.00 (0.04) .89 | 0.01 (0.04) .78 | 0.01 (0.04) .84 |
| b | Slope \* height | --- | --- | -0.01 (0.02) .75 | -0.00 (0.02) .83 | -0.00 (0.02) .93 |
| b | Slope \* smoking | --- | --- | --- | -0.01 (0.31) .97 | -0.02 (0.31) .94 |
| b | Slope \* cardio | --- | --- | --- | 0.26 (0.71) .72 | 0.27 (0.77) .73 |
| b | Slope \* diabetes | --- | --- | --- | -0.08 (0.40) .83 | -0.07 (0.47) .88 |
| a | Var (Level) | 400.77 (55.16) <.01 | 391.57 (54.48) <.01 | 403.41 (82.38) <.01 | 338.85 (80.33) <.01 | 249.90 (63.51) <.01 |
| a | Var (Slope) | 4.14 (1.35) <.01 | 3.86 (1.35) <.01 | 6.24 (2.99) .04 | 6.21 (3.38) .07 | 6.10 (3.35) .07 |
| a | Var (Residual) | 65.91 (4.26) <.01 | 66.11 (4.38) <.01 | 61.51 (8.41) <.01 | 61.30 (8.96) <.01 | 61.50 (9.30) <.01 |
| a | Covar (Level, Slope) | -2.08 (7.67) .79 | -2.14 (7.33) .77 | -13.65 (15.01) .36 | -11.66 (16.60) .48 | -8.88 (13.44) .51 |
| b | Var (Level) | 30.70 (3.69) <.01 | 23.32 (3.05) <.01 | 22.65 (5.61) <.01 | 21.85 (5.44) <.01 | 21.93 (5.71) <.01 |
| b | Var (Slope) | 0.17 (0.09) .06 | 0.17 (0.09) .07 | 0.12 (0.11) .26 | 0.11 (0.12) .32 | 0.09 (0.13) .48 |
| b | Var (Residual) | 15.44 (0.72) <.01 | 15.43 (0.72) <.01 | 14.59 (1.24) <.01 | 14.56 (1.29) <.01 | 14.57 (1.34) <.01 |
| b | Covar (Level, Slope) | -0.01 (0.65) .99 | -0.02 (0.58) .97 | 0.64 (0.92) .49 | 0.70 (0.96) .46 | 0.67 (0.95) .48 |
| ab | Covar (Levels) | 15.37 (10.40) .14 | 8.65 (9.34) .35 | 10.80 (13.95) .44 | 6.71 (12.96) .60 | 6.59 (12.11) .59 |
| ab | Covar (Slopes) | 0.17 (0.29) .55 | 0.16 (0.28) .58 | 0.25 (0.58) .67 | 0.26 (0.62) .68 | 0.30 (0.63) .63 |
| ab | Covar (Residuals) | 1.70 (1.78) .34 | 1.68 (1.80) .35 | 0.82 (2.54) .75 | 0.61 (2.84) .83 | 0.47 (2.82) .87 |
|  | Correlation of Levels | 0.139 | 0.090 | 0.113 | 0.078 | 0.089 |
|  | Correlation of Slopes | 0.204 | 0.195 | 0.284 | 0.309 | 0.405 |
|  | Correlation of Residuals | 0.053 | 0.052 | 0.027 | 0.020 | 0.016 |
|  | N | 554 | 554 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -8,126 | -8,065 | -3,451 | -3,439 | -3,422 |
|  | AIC | 16,293 | 16,181 | 6,960 | 6,960 | 6,935 |
|  | BIC | 16,384 | 16,289 | 7,047 | 7,084 | 7,070 |

## mmse

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 107.70 (3.41) <.01 | 107.67 (5.57) <.01 | 101.63 (11.25) <.01 | 105.72 (12.96) <.01 | 107.27 (14.30) <.01 |
| a | Slope | -2.27 (0.73) <.01 | -2.22 (1.14) .05 | 0.06 (2.91) .98 | -1.64 (5.96) .78 | -1.37 (7.00) .84 |
| a | Level \* age | -1.05 (0.37) <.01 | -1.05 (0.38) <.01 | -0.43 (0.48) .37 | -0.46 (0.56) .41 | -0.48 (0.56) .39 |
| a | Level \* education | --- | 0.01 (0.61) .99 | 0.70 (0.83) .40 | 0.67 (0.95) .48 | 0.70 (1.00) .48 |
| a | Level \* height | --- | --- | 0.13 (0.42) .75 | 0.09 (0.45) .84 | -0.02 (0.49) .97 |
| a | Level \* smoking | --- | --- | --- | -1.54 (6.50) .81 | -1.24 (7.55) .87 |
| a | Level \* cardio | --- | --- | --- | -4.14 (10.80) .70 | -4.62 (15.53) .77 |
| a | Level \* diabetes | --- | --- | --- | -4.76 (8.32) .57 | -5.41 (9.03) .55 |
| a | Slope \* age | -0.12 (0.09) .18 | -0.12 (0.09) .18 | -0.14 (0.16) .36 | -0.11 (0.19) .57 | -0.11 (0.22) .62 |
| a | Slope \* education | --- | -0.01 (0.15) .97 | -0.27 (0.19) .15 | -0.27 (0.31) .39 | -0.29 (0.37) .43 |
| a | Slope \* height | --- | --- | -0.00 (0.13) .98 | 0.03 (0.20) .89 | 0.10 (0.21) .65 |
| a | Slope \* smoking | --- | --- | --- | 0.93 (2.40) .70 | 0.37 (3.12) .91 |
| a | Slope \* cardio | --- | --- | --- | 1.28 (3.71) .73 | 1.73 (4.58) .71 |
| a | Slope \* diabetes | --- | --- | --- | 0.16 (3.17) .96 | 0.82 (3.58) .82 |
| b | Level | 26.19 (0.19) <.01 | 26.22 (0.19) <.01 | 26.45 (0.64) <.01 | 26.68 (0.88) <.01 | 26.90 (1.11) <.01 |
| b | Slope | 0.09 (0.05) .06 | 0.10 (0.06) .12 | 0.01 (0.21) .97 | -0.06 (0.29) .84 | -0.05 (0.34) .89 |
| b | Level \* age | -0.00 (0.02) .96 | -0.00 (0.02) .94 | 0.00 (0.04) .93 | -0.00 (0.04) .98 | -0.00 (0.04) .92 |
| b | Level \* education | --- | -0.00 (0.01) .72 | 0.06 (0.05) .19 | 0.06 (0.06) .32 | 0.06 (0.06) .31 |
| b | Level \* height | --- | --- | 0.00 (0.03) .94 | 0.00 (0.04) .95 | 0.00 (0.04) .99 |
| b | Level \* smoking | --- | --- | --- | -0.22 (0.41) .59 | -0.30 (0.44) .49 |
| b | Level \* cardio | --- | --- | --- | 0.06 (0.63) .92 | 0.14 (0.66) .84 |
| b | Level \* diabetes | --- | --- | --- | -0.09 (0.46) .84 | -0.02 (0.46) .96 |
| b | Slope \* age | -0.01 (0.00) .01 | -0.01 (0.00) .01 | -0.00 (0.01) .73 | -0.00 (0.01) .84 | -0.00 (0.02) .85 |
| b | Slope \* education | --- | 0.00 (0.00) .95 | 0.00 (0.01) .88 | 0.00 (0.02) .87 | 0.00 (0.02) .91 |
| b | Slope \* height | --- | --- | -0.00 (0.01) .89 | -0.00 (0.01) .93 | 0.00 (0.02) .99 |
| b | Slope \* smoking | --- | --- | --- | 0.06 (0.12) .61 | 0.06 (0.14) .68 |
| b | Slope \* cardio | --- | --- | --- | -0.03 (0.33) .93 | -0.03 (0.31) .92 |
| b | Slope \* diabetes | --- | --- | --- | 0.03 (0.14) .84 | 0.04 (0.15) .80 |
| a | Var (Level) | 346.18 (71.14) <.01 | 344.95 (75.81) <.01 | 216.47 (89.94) .02 | 214.38 (115.83) .06 | 214.50 (129.55) .10 |
| a | Var (Slope) | 2.20 (1.37) .11 | 2.14 (1.43) .14 | 1.76 (3.77) .64 | 1.22 (5.63) .83 | 0.78 (5.83) .89 |
| a | Var (Residual) | 79.59 (7.08) <.01 | 79.70 (7.19) <.01 | 73.08 (15.30) <.01 | 73.97 (20.68) <.01 | 75.51 (24.81) <.01 |
| a | Covar (Level, Slope) | 6.45 (11.63) .58 | 6.62 (12.38) .59 | 0.74 (17.23) .97 | -0.79 (19.94) .97 | -2.20 (20.57) .92 |
| b | Var (Level) | 1.79 (0.22) <.01 | 1.76 (0.22) <.01 | 0.30 (0.26) .26 | 0.30 (0.30) .31 | 0.27 (0.36) .46 |
| b | Var (Slope) | 0.00 (0.01) .51 | 0.00 (0.01) .57 | 0.01 (0.02) .72 | 0.01 (0.02) .75 | 0.01 (0.02) .76 |
| b | Var (Residual) | 0.98 (0.04) <.01 | 0.98 (0.04) <.01 | 0.67 (0.07) <.01 | 0.67 (0.08) <.01 | 0.66 (0.08) <.01 |
| b | Covar (Level, Slope) | -0.01 (0.04) .77 | -0.01 (0.04) .85 | 0.04 (0.07) .57 | 0.04 (0.07) .58 | 0.04 (0.07) .60 |
| ab | Covar (Levels) | 10.51 (5.53) .06 | 10.38 (5.74) .07 | 2.34 (3.90) .55 | 2.13 (5.14) .68 | 1.71 (5.92) .77 |
| ab | Covar (Slopes) | -0.00 (0.12) .98 | -0.00 (0.12) .99 | 0.01 (0.18) .95 | 0.01 (0.25) .96 | 0.03 (0.30) .93 |
| ab | Covar (Residuals) | 0.08 (0.69) .91 | 0.07 (0.69) .92 | 0.21 (1.05) .84 | 0.22 (1.16) .85 | 0.24 (1.42) .86 |
|  | Correlation of Levels | 0.4217 | 0.4212 | 0.29 | 0.265 | 0.224 |
|  | Correlation of Slopes | -0.0213 | -0.0250 | 0.11 | 0.140 | 0.410 |
|  | Correlation of Residuals | 0.0089 | 0.0084 | 0.03 | 0.032 | 0.034 |
|  | N | 383 | 383 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -3,874 | -3,872 | -1,317 | -1,314 | -1,312 |
|  | AIC | 7,790 | 7,793 | 2,691 | 2,710 | 2,713 |
|  | BIC | 7,872 | 7,892 | 2,757 | 2,803 | 2,816 |

## symbol

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 105.42 (2.79) <.01 | 100.41 (4.75) <.01 | 105.24 (7.89) <.01 | 109.43 (8.40) <.01 | 117.55 (8.18) <.01 |
| a | Slope | -2.38 (0.55) <.01 | -3.31 (1.03) <.01 | -3.18 (2.50) .20 | -3.04 (2.84) .28 | -3.26 (3.00) .28 |
| a | Level \* age | -1.60 (0.28) <.01 | -1.59 (0.29) <.01 | -1.44 (0.46) <.01 | -1.52 (0.51) <.01 | -1.32 (0.46) <.01 |
| a | Level \* education | --- | 0.79 (0.51) .12 | 0.57 (0.84) .50 | 0.41 (0.83) .62 | 0.42 (0.79) .59 |
| a | Level \* height | --- | --- | 0.06 (0.31) .86 | 0.05 (0.33) .88 | 0.26 (0.31) .41 |
| a | Level \* smoking | --- | --- | --- | 3.13 (3.85) .42 | 2.50 (3.90) .52 |
| a | Level \* cardio | --- | --- | --- | -4.83 (7.43) .52 | -2.32 (6.69) .73 |
| a | Level \* diabetes | --- | --- | --- | -18.77 (6.32) <.01 | -17.00 (5.69) <.01 |
| a | Slope \* age | -0.06 (0.06) .30 | -0.06 (0.06) .36 | -0.06 (0.13) .64 | -0.06 (0.15) .69 | -0.07 (0.15) .64 |
| a | Slope \* education | --- | 0.14 (0.11) .21 | 0.07 (0.24) .78 | 0.06 (0.25) .81 | 0.05 (0.25) .85 |
| a | Slope \* height | --- | --- | 0.07 (0.07) .32 | 0.06 (0.07) .39 | 0.05 (0.08) .53 |
| a | Slope \* smoking | --- | --- | --- | -0.29 (1.39) .83 | -0.29 (1.51) .85 |
| a | Slope \* cardio | --- | --- | --- | -0.00 (2.16) .99 | -0.14 (1.99) .94 |
| a | Slope \* diabetes | --- | --- | --- | 0.65 (2.87) .82 | 0.66 (2.99) .83 |
| b | Level | 45.31 (1.24) <.01 | 32.63 (1.65) <.01 | 39.73 (2.94) <.01 | 41.23 (3.25) <.01 | 40.95 (3.38) <.01 |
| b | Slope | 0.55 (0.23) .02 | 1.03 (0.45) .02 | 0.26 (0.60) .67 | 0.32 (0.62) .60 | 0.45 (0.60) .45 |
| b | Level \* age | -0.61 (0.13) <.01 | -0.57 (0.11) <.01 | -0.37 (0.25) .14 | -0.41 (0.25) .11 | -0.41 (0.26) .11 |
| b | Level \* education | --- | 2.01 (0.18) <.01 | 1.86 (0.34) <.01 | 1.76 (0.34) <.01 | 1.77 (0.35) <.01 |
| b | Level \* height | --- | --- | 0.08 (0.18) .66 | 0.05 (0.20) .79 | 0.05 (0.21) .81 |
| b | Level \* smoking | --- | --- | --- | 2.34 (2.28) .30 | 2.35 (2.36) .32 |
| b | Level \* cardio | --- | --- | --- | -5.16 (6.40) .42 | -5.17 (6.87) .45 |
| b | Level \* diabetes | --- | --- | --- | -6.68 (2.95) .02 | -6.69 (3.00) .03 |
| b | Slope \* age | -0.05 (0.02) .05 | -0.05 (0.02) .04 | -0.05 (0.03) .10 | -0.05 (0.03) .14 | -0.05 (0.04) .17 |
| b | Slope \* education | --- | -0.08 (0.05) .11 | -0.04 (0.07) .54 | -0.05 (0.07) .49 | -0.05 (0.07) .47 |
| b | Slope \* height | --- | --- | 0.00 (0.03) .90 | 0.01 (0.03) .85 | 0.01 (0.03) .82 |
| b | Slope \* smoking | --- | --- | --- | 0.03 (0.40) .94 | 0.03 (0.43) .95 |
| b | Slope \* cardio | --- | --- | --- | 0.11 (0.77) .89 | 0.11 (0.77) .89 |
| b | Slope \* diabetes | --- | --- | --- | -0.28 (0.70) .69 | -0.27 (0.70) .70 |
| a | Var (Level) | 399.98 (52.42) <.01 | 388.49 (50.69) <.01 | 407.19 (79.59) <.01 | 343.48 (79.39) <.01 | 255.60 (65.97) <.01 |
| a | Var (Slope) | 4.23 (1.34) <.01 | 3.87 (1.31) <.01 | 6.55 (3.02) .03 | 6.57 (3.20) .04 | 6.57 (3.21) .04 |
| a | Var (Residual) | 65.92 (4.31) <.01 | 66.28 (4.42) <.01 | 61.18 (7.29) <.01 | 60.84 (7.54) <.01 | 60.78 (7.59) <.01 |
| a | Covar (Level, Slope) | -1.92 (7.09) .79 | -1.82 (6.66) .78 | -15.10 (15.12) .32 | -13.55 (17.49) .44 | -11.07 (13.96) .43 |
| b | Var (Level) | 191.63 (14.35) <.01 | 144.74 (10.92) <.01 | 129.73 (20.44) <.01 | 114.87 (17.88) <.01 | 115.14 (19.09) <.01 |
| b | Var (Slope) | 1.50 (0.37) <.01 | 1.43 (0.35) <.01 | 0.28 (0.36) .44 | 0.30 (0.44) .49 | 0.31 (0.45) .49 |
| b | Var (Residual) | 30.73 (1.27) <.01 | 30.66 (1.26) <.01 | 28.20 (1.83) <.01 | 28.05 (1.91) <.01 | 27.98 (1.92) <.01 |
| b | Covar (Level, Slope) | -6.75 (2.46) .01 | -4.85 (1.96) .01 | -1.65 (2.63) .53 | -2.09 (2.52) .41 | -2.14 (2.72) .43 |
| ab | Covar (Levels) | 89.01 (24.45) <.01 | 69.62 (20.65) <.01 | 63.36 (31.63) .04 | 35.06 (30.82) .26 | 32.05 (31.37) .31 |
| ab | Covar (Slopes) | 1.33 (0.62) .03 | 1.43 (0.64) .03 | 1.07 (0.76) .16 | 1.12 (0.87) .20 | 1.12 (0.93) .23 |
| ab | Covar (Residuals) | 0.40 (2.28) .86 | 0.52 (2.31) .82 | -3.45 (3.84) .37 | -3.16 (4.08) .44 | -2.77 (4.02) .49 |
|  | Correlation of Levels | 0.3215 | 0.294 | 0.276 | 0.177 | 0.187 |
|  | Correlation of Slopes | 0.5288 | 0.606 | 0.791 | 0.794 | 0.783 |
|  | Correlation of Residuals | 0.0089 | 0.012 | -0.083 | -0.076 | -0.067 |
|  | N | 592 | 592 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -9,382 | -9,307 | -3,735 | -3,715 | -3,699 |
|  | AIC | 18,807 | 18,664 | 7,527 | 7,513 | 7,487 |
|  | BIC | 18,899 | 18,774 | 7,615 | 7,636 | 7,623 |

## trailsb

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.20 (2.94) <.01 | 101.55 (5.22) <.01 | 105.46 (8.29) <.01 | 110.04 (8.27) <.01 | 117.96 (7.86) <.01 |
| a | Slope | -2.65 (0.55) <.01 | -3.51 (1.14) <.01 | -3.57 (2.46) .15 | -3.51 (2.53) .16 | -3.76 (2.65) .16 |
| a | Level \* age | -1.59 (0.28) <.01 | -1.58 (0.30) <.01 | -1.49 (0.51) <.01 | -1.57 (0.56) <.01 | -1.37 (0.52) .01 |
| a | Level \* education | --- | 0.73 (0.54) .18 | 0.58 (0.86) .50 | 0.40 (0.82) .63 | 0.41 (0.74) .58 |
| a | Level \* height | --- | --- | 0.01 (0.34) .97 | 0.03 (0.36) .93 | 0.23 (0.32) .46 |
| a | Level \* smoking | --- | --- | --- | 3.05 (4.04) .45 | 2.49 (4.03) .54 |
| a | Level \* cardio | --- | --- | --- | -5.04 (7.41) .50 | -2.77 (6.81) .68 |
| a | Level \* diabetes | --- | --- | --- | -18.85 (6.20) <.01 | -16.97 (5.36) <.01 |
| a | Slope \* age | -0.05 (0.06) .40 | -0.05 (0.07) .51 | -0.05 (0.15) .74 | -0.05 (0.17) .78 | -0.06 (0.17) .75 |
| a | Slope \* education | --- | 0.13 (0.12) .26 | 0.10 (0.24) .68 | 0.09 (0.26) .72 | 0.08 (0.26) .75 |
| a | Slope \* height | --- | --- | 0.07 (0.08) .38 | 0.06 (0.08) .43 | 0.05 (0.09) .57 |
| a | Slope \* smoking | --- | --- | --- | -0.26 (1.25) .83 | -0.26 (1.35) .85 |
| a | Slope \* cardio | --- | --- | --- | -0.04 (2.01) .99 | -0.17 (1.98) .93 |
| a | Slope \* diabetes | --- | --- | --- | 0.61 (2.34) .79 | 0.55 (2.49) .82 |
| b | Level | 124.95 (7.19) <.01 | 172.26 (7.61) <.01 | 170.19 (16.75) <.01 | 162.47 (17.86) <.01 | 171.52 (18.38) <.01 |
| b | Slope | 1.08 (1.33) .42 | 1.12 (2.12) .60 | 3.31 (4.16) .43 | 3.44 (5.01) .49 | 3.26 (5.09) .52 |
| b | Level \* age | 2.56 (0.64) <.01 | 2.40 (0.58) <.01 | 1.59 (1.32) .23 | 1.77 (1.40) .20 | 2.02 (1.41) .15 |
| b | Level \* education | --- | -7.38 (0.92) <.01 | -7.52 (1.93) <.01 | -7.00 (2.04) <.01 | -7.11 (2.02) <.01 |
| b | Level \* height | --- | --- | -0.02 (0.80) .98 | 0.12 (0.90) .90 | 0.28 (0.89) .75 |
| b | Level \* smoking | --- | --- | --- | -11.49 (8.30) .17 | -11.94 (7.18) .10 |
| b | Level \* cardio | --- | --- | --- | 26.91 (24.01) .26 | 29.78 (23.00) .20 |
| b | Level \* diabetes | --- | --- | --- | 31.43 (17.48) .07 | 33.72 (17.71) .06 |
| b | Slope \* age | 0.26 (0.13) .05 | 0.26 (0.14) .07 | 0.23 (0.28) .41 | 0.22 (0.32) .49 | 0.21 (0.32) .50 |
| b | Slope \* education | --- | -0.01 (0.23) .98 | -0.24 (0.48) .62 | -0.25 (0.52) .63 | -0.25 (0.52) .63 |
| b | Slope \* height | --- | --- | 0.02 (0.18) .92 | -0.01 (0.22) .97 | -0.01 (0.22) .96 |
| b | Slope \* smoking | --- | --- | --- | -0.38 (2.70) .89 | -0.36 (2.74) .90 |
| b | Slope \* cardio | --- | --- | --- | -2.06 (10.59) .85 | -2.14 (10.27) .83 |
| b | Slope \* diabetes | --- | --- | --- | 2.44 (4.44) .58 | 2.45 (4.62) .60 |
| a | Var (Level) | 403.61 (54.40) <.01 | 393.10 (53.47) <.01 | 409.68 (80.42) <.01 | 343.16 (80.72) <.01 | 254.46 (66.11) <.01 |
| a | Var (Slope) | 4.10 (1.38) <.01 | 3.80 (1.41) .01 | 6.46 (3.50) .06 | 6.39 (3.90) .10 | 6.32 (3.95) .11 |
| a | Var (Residual) | 66.13 (4.16) <.01 | 66.31 (4.29) <.01 | 61.44 (7.66) <.01 | 61.41 (8.08) <.01 | 61.51 (8.18) <.01 |
| a | Covar (Level, Slope) | -1.69 (7.15) .81 | -1.81 (6.89) .79 | -14.83 (15.94) .35 | -13.12 (17.62) .46 | -10.23 (15.18) .50 |
| b | Var (Level) | 3328.63 (470.64) <.01 | 2688.99 (379.25) <.01 | 2682.84 (739.15) <.01 | 2329.84 (696.34) <.01 | 2236.44 (720.17) <.01 |
| b | Var (Slope) | 5.55 (9.96) .58 | 5.73 (10.42) .58 | 3.67 (16.34) .82 | 3.04 (18.63) .87 | 3.16 (21.11) .88 |
| b | Var (Residual) | 1753.94 (49.31) <.01 | 1756.91 (48.65) <.01 | 1493.26 (66.71) <.01 | 1487.15 (70.29) <.01 | 1485.67 (70.95) <.01 |
| b | Covar (Level, Slope) | 48.87 (71.47) .49 | 46.65 (66.39) .48 | 61.82 (121.67) .61 | 51.78 (135.78) .70 | 52.25 (144.50) .72 |
| ab | Covar (Levels) | -283.26 (135.15) .04 | -214.80 (119.21) .07 | -219.55 (185.69) .24 | -71.87 (174.08) .68 | -143.57 (166.87) .39 |
| ab | Covar (Slopes) | -1.65 (2.93) .57 | -1.43 (2.86) .62 | -1.11 (4.85) .82 | -1.63 (5.47) .76 | -1.69 (6.11) .78 |
| ab | Covar (Residuals) | -2.90 (18.86) .88 | -3.00 (18.93) .87 | -4.08 (26.83) .88 | -2.30 (31.24) .94 | -1.24 (32.01) .97 |
|  | Correlation of Levels | -0.2444 | -0.2089 | -0.209 | -0.0804 | -0.1903 |
|  | Correlation of Slopes | -0.3451 | -0.3056 | -0.228 | -0.3707 | -0.3781 |
|  | Correlation of Residuals | -0.0085 | -0.0088 | -0.013 | -0.0076 | -0.0041 |
|  | N | 580 | 580 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -12,416 | -12,370 | -4,940 | -4,921 | -4,901 |
|  | AIC | 24,873 | 24,791 | 9,938 | 9,925 | 9,892 |
|  | BIC | 24,965 | 24,900 | 10,025 | 10,048 | 10,028 |

## waisvocab

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.17 (2.94) <.01 | 101.11 (5.02) <.01 | 105.71 (8.18) <.01 | 109.77 (8.37) <.01 | 118.03 (8.55) <.01 |
| a | Slope | -2.52 (0.59) <.01 | -3.41 (1.16) <.01 | -3.42 (2.58) .18 | -3.23 (2.68) .23 | -3.45 (2.63) .19 |
| a | Level \* age | -1.51 (0.29) <.01 | -1.49 (0.30) <.01 | -1.47 (0.46) <.01 | -1.54 (0.51) <.01 | -1.34 (0.49) .01 |
| a | Level \* education | --- | 0.80 (0.53) .13 | 0.59 (0.85) .49 | 0.41 (0.80) .60 | 0.41 (0.76) .59 |
| a | Level \* height | --- | --- | 0.05 (0.32) .87 | 0.06 (0.34) .86 | 0.26 (0.30) .39 |
| a | Level \* smoking | --- | --- | --- | 3.30 (4.36) .45 | 2.66 (4.33) .54 |
| a | Level \* cardio | --- | --- | --- | -5.05 (7.56) .50 | -2.34 (7.58) .76 |
| a | Level \* diabetes | --- | --- | --- | -18.63 (6.08) <.01 | -16.76 (5.55) <.01 |
| a | Slope \* age | -0.06 (0.07) .40 | -0.06 (0.07) .43 | -0.07 (0.12) .58 | -0.06 (0.13) .63 | -0.08 (0.14) .58 |
| a | Slope \* education | --- | 0.14 (0.12) .27 | 0.10 (0.25) .70 | 0.08 (0.28) .76 | 0.07 (0.28) .79 |
| a | Slope \* height | --- | --- | 0.07 (0.07) .31 | 0.06 (0.07) .37 | 0.04 (0.07) .53 |
| a | Slope \* smoking | --- | --- | --- | -0.33 (1.23) .79 | -0.34 (1.30) .79 |
| a | Slope \* cardio | --- | --- | --- | -0.11 (2.18) .96 | -0.27 (2.10) .90 |
| a | Slope \* diabetes | --- | --- | --- | 0.57 (2.40) .81 | 0.55 (2.35) .81 |
| b | Level | 44.77 (1.11) <.01 | 32.82 (1.28) <.01 | 34.44 (2.73) <.01 | 34.77 (3.20) <.01 | 35.85 (3.21) <.01 |
| b | Slope | 0.05 (0.22) .81 | -0.22 (0.36) .54 | 0.09 (0.65) .89 | 0.33 (0.72) .65 | 0.12 (0.77) .87 |
| b | Level \* age | 0.04 (0.11) .73 | 0.08 (0.09) .42 | -0.11 (0.24) .65 | -0.15 (0.27) .59 | -0.12 (0.28) .65 |
| b | Level \* education | --- | 1.90 (0.14) <.01 | 1.86 (0.30) <.01 | 1.86 (0.33) <.01 | 1.85 (0.32) <.01 |
| b | Level \* height | --- | --- | -0.07 (0.14) .60 | -0.06 (0.16) .72 | -0.04 (0.16) .82 |
| b | Level \* smoking | --- | --- | --- | 1.12 (1.26) .37 | 1.06 (1.26) .40 |
| b | Level \* cardio | --- | --- | --- | 3.33 (4.09) .42 | 3.59 (4.37) .41 |
| b | Level \* diabetes | --- | --- | --- | -4.86 (2.44) .05 | -4.64 (2.50) .06 |
| b | Slope \* age | -0.05 (0.02) .02 | -0.05 (0.02) .02 | -0.04 (0.04) .28 | -0.04 (0.04) .34 | -0.05 (0.05) .32 |
| b | Slope \* education | --- | 0.04 (0.04) .34 | 0.02 (0.07) .75 | -0.00 (0.07) .99 | 0.00 (0.07) .97 |
| b | Slope \* height | --- | --- | 0.01 (0.02) .56 | 0.01 (0.03) .65 | 0.01 (0.03) .77 |
| b | Slope \* smoking | --- | --- | --- | -0.02 (0.38) .96 | -0.01 (0.39) .98 |
| b | Slope \* cardio | --- | --- | --- | -0.63 (0.90) .48 | -0.65 (0.93) .48 |
| b | Slope \* diabetes | --- | --- | --- | -0.14 (0.48) .77 | -0.15 (0.57) .79 |
| a | Var (Level) | 410.08 (55.32) <.01 | 397.49 (54.13) <.01 | 408.65 (81.52) <.01 | 344.72 (82.47) <.01 | 253.46 (65.27) <.01 |
| a | Var (Slope) | 4.26 (1.42) <.01 | 3.93 (1.44) .01 | 6.72 (3.55) .06 | 6.74 (4.52) .14 | 6.71 (4.26) .12 |
| a | Var (Residual) | 65.76 (4.25) <.01 | 66.05 (4.37) <.01 | 60.78 (6.96) <.01 | 60.51 (7.32) <.01 | 60.72 (7.52) <.01 |
| a | Covar (Level, Slope) | -3.56 (7.70) .64 | -3.35 (7.39) .65 | -15.40 (16.72) .36 | -13.77 (19.64) .48 | -10.67 (16.78) .52 |
| b | Var (Level) | 141.33 (13.01) <.01 | 97.66 (9.11) <.01 | 85.71 (16.79) <.01 | 80.76 (17.32) <.01 | 79.05 (17.19) <.01 |
| b | Var (Slope) | 0.35 (0.31) .25 | 0.31 (0.30) .30 | 0.28 (0.39) .47 | 0.28 (0.43) .51 | 0.26 (0.42) .54 |
| b | Var (Residual) | 39.33 (1.38) <.01 | 39.17 (1.37) <.01 | 29.85 (1.93) <.01 | 29.63 (1.98) <.01 | 29.57 (2.04) <.01 |
| b | Covar (Level, Slope) | -2.41 (1.90) .20 | -2.51 (1.54) .10 | -2.04 (2.23) .36 | -2.13 (2.44) .38 | -1.82 (2.44) .46 |
| ab | Covar (Levels) | 74.69 (21.34) <.01 | 55.35 (19.11) <.01 | 60.86 (26.39) .02 | 46.20 (24.11) .06 | 34.14 (21.83) .12 |
| ab | Covar (Slopes) | 0.92 (0.47) .05 | 0.81 (0.46) .07 | 1.19 (0.81) .14 | 1.18 (0.97) .22 | 1.15 (0.94) .22 |
| ab | Covar (Residuals) | -0.65 (2.96) .83 | -0.64 (3.01) .83 | 1.82 (3.87) .64 | 1.96 (4.36) .65 | 2.53 (4.31) .56 |
|  | Correlation of Levels | 0.310 | 0.281 | 0.325 | 0.277 | 0.24 |
|  | Correlation of Slopes | 0.748 | 0.738 | 0.863 | 0.857 | 0.87 |
|  | Correlation of Residuals | -0.013 | -0.013 | 0.043 | 0.046 | 0.06 |
|  | N | 594 | 594 | 150 | 150 | 150 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -9,465 | -9,358 | -3,714 | -3,699 | -3,682 |
|  | AIC | 18,972 | 18,766 | 7,487 | 7,480 | 7,455 |
|  | BIC | 19,064 | 18,876 | 7,574 | 7,603 | 7,590 |

## Summary

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

Computed correlations:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Levels | block | 0.25 | 0.22 | 0.26 | 0.17 | 0.14 |
| Correlation of Levels | bnt | 0.17 | 0.13 | 0.25 | 0.09 | 0.05 |
| Correlation of Levels | categories | 0.20 | 0.17 | 0.11 | 0.01 | -0.00 |
| Correlation of Levels | digit\_tot | 0.31 | 0.29 | 0.28 | 0.18 | 0.24 |
| Correlation of Levels | fas | 0.34 | 0.33 | 0.37 | 0.26 | 0.27 |
| Correlation of Levels | information | 0.08 | 0.06 | 0.22 | 0.12 | 0.13 |
| Correlation of Levels | logic\_tot | 0.14 | 0.09 | 0.11 | 0.08 | 0.09 |
| Correlation of Levels | mmse | 0.42 | 0.42 | 0.29 | 0.27 | 0.22 |
| Correlation of Levels | symbol | 0.32 | 0.29 | 0.28 | 0.18 | 0.19 |
| Correlation of Levels | trailsb | -0.24 | -0.21 | -0.21 | -0.08 | -0.19 |
| Correlation of Levels | waisvocab | 0.31 | 0.28 | 0.33 | 0.28 | 0.24 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Slopes | block | 0.30 | 0.46 | 0.03 | 0.02 | 0.01 |
| Correlation of Slopes | bnt | 0.54 | 0.56 | 0.69 | 0.66 | 0.66 |
| Correlation of Slopes | categories | 0.38 | 0.38 | 0.36 | 0.38 | 0.42 |
| Correlation of Slopes | digit\_tot | 0.47 | 0.55 | 0.65 | 0.65 | 0.67 |
| Correlation of Slopes | fas | 0.79 | 0.89 | 0.74 | 0.49 | 0.53 |
| Correlation of Slopes | information | -0.26 | -0.29 | -0.54 | -0.54 | -0.53 |
| Correlation of Slopes | logic\_tot | 0.20 | 0.19 | 0.28 | 0.31 | 0.40 |
| Correlation of Slopes | mmse | -0.02 | -0.02 | 0.11 | 0.14 | 0.41 |
| Correlation of Slopes | symbol | 0.53 | 0.61 | 0.79 | 0.79 | 0.78 |
| Correlation of Slopes | trailsb | -0.35 | -0.31 | -0.23 | -0.37 | -0.38 |
| Correlation of Slopes | waisvocab | 0.75 | 0.74 | 0.86 | 0.86 | 0.87 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Residuals | block | -0.02 | -0.02 | -0.06 | -0.07 | -0.07 |
| Correlation of Residuals | bnt | 0.02 | 0.02 | -0.01 | -0.00 | 0.00 |
| Correlation of Residuals | categories | 0.01 | 0.01 | 0.06 | 0.05 | 0.04 |
| Correlation of Residuals | digit\_tot | 0.05 | 0.05 | 0.07 | 0.07 | 0.07 |
| Correlation of Residuals | fas | -0.00 | -0.00 | -0.07 | -0.07 | -0.07 |
| Correlation of Residuals | information | -0.01 | -0.01 | -0.02 | -0.02 | -0.01 |
| Correlation of Residuals | logic\_tot | 0.05 | 0.05 | 0.03 | 0.02 | 0.02 |
| Correlation of Residuals | mmse | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| Correlation of Residuals | symbol | 0.01 | 0.01 | -0.08 | -0.08 | -0.07 |
| Correlation of Residuals | trailsb | -0.01 | -0.01 | -0.01 | -0.01 | -0.00 |
| Correlation of Residuals | waisvocab | -0.01 | -0.01 | 0.04 | 0.05 | 0.06 |

P-values for corresponding covariances:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Levels | block | 0.00 | 0.01 | 0.08 | 0.29 | 0.41 |
| Covariance of Levels | bnt | 0.10 | 0.24 | 0.20 | 0.64 | 0.79 |
| Covariance of Levels | categories | 0.03 | 0.07 | 0.42 | 0.93 | 1.00 |
| Covariance of Levels | digit\_tot | 0.00 | 0.00 | 0.06 | 0.32 | 0.20 |
| Covariance of Levels | fas | 0.00 | 0.00 | 0.01 | 0.08 | 0.10 |
| Covariance of Levels | information | 0.37 | 0.59 | 0.25 | 0.59 | 0.57 |
| Covariance of Levels | logic\_tot | 0.14 | 0.35 | 0.44 | 0.60 | 0.59 |
| Covariance of Levels | mmse | 0.06 | 0.07 | 0.55 | 0.68 | 0.77 |
| Covariance of Levels | symbol | 0.00 | 0.00 | 0.04 | 0.26 | 0.31 |
| Covariance of Levels | trailsb | 0.04 | 0.07 | 0.24 | 0.68 | 0.39 |
| Covariance of Levels | waisvocab | 0.00 | 0.00 | 0.02 | 0.06 | 0.12 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Slopes | block | 0.27 | 0.14 | 0.96 | 0.98 | 0.99 |
| Covariance of Slopes | bnt | 0.33 | 0.30 | 0.22 | 0.25 | 0.28 |
| Covariance of Slopes | categories | 0.05 | 0.06 | 0.38 | 0.43 | 0.41 |
| Covariance of Slopes | digit\_tot | 0.10 | 0.08 | 0.12 | 0.14 | 0.14 |
| Covariance of Slopes | fas | 0.01 | 0.01 | 0.14 | 0.31 | 0.34 |
| Covariance of Slopes | information | 0.44 | 0.43 | 0.49 | 0.63 | 0.66 |
| Covariance of Slopes | logic\_tot | 0.55 | 0.58 | 0.67 | 0.68 | 0.63 |
| Covariance of Slopes | mmse | 0.98 | 0.99 | 0.95 | 0.96 | 0.93 |
| Covariance of Slopes | symbol | 0.03 | 0.03 | 0.16 | 0.20 | 0.23 |
| Covariance of Slopes | trailsb | 0.57 | 0.62 | 0.82 | 0.76 | 0.78 |
| Covariance of Slopes | waisvocab | 0.05 | 0.07 | 0.14 | 0.22 | 0.22 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Residuals | block | 0.72 | 0.73 | 0.41 | 0.36 | 0.38 |
| Covariance of Residuals | bnt | 0.76 | 0.77 | 0.93 | 0.97 | 0.99 |
| Covariance of Residuals | categories | 0.86 | 0.91 | 0.57 | 0.67 | 0.71 |
| Covariance of Residuals | digit\_tot | 0.37 | 0.39 | 0.39 | 0.40 | 0.44 |
| Covariance of Residuals | fas | 0.98 | 0.96 | 0.35 | 0.40 | 0.41 |
| Covariance of Residuals | information | 0.81 | 0.81 | 0.87 | 0.87 | 0.92 |
| Covariance of Residuals | logic\_tot | 0.34 | 0.35 | 0.75 | 0.83 | 0.87 |
| Covariance of Residuals | mmse | 0.91 | 0.92 | 0.84 | 0.85 | 0.86 |
| Covariance of Residuals | symbol | 0.86 | 0.82 | 0.37 | 0.44 | 0.49 |
| Covariance of Residuals | trailsb | 0.88 | 0.87 | 0.88 | 0.94 | 0.97 |
| Covariance of Residuals | waisvocab | 0.83 | 0.83 | 0.64 | 0.65 | 0.56 |

# male

Gender = *male*; Model type: *aehplus*; Process (a) = *gait*; Process (b): *block*, *bnt*, *categories*, *digit\_tot*, *fas*, *information*, *logic\_tot*, *mmse*, *symbol*, *trailsb*, *waisvocab*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| process | label | block | bnt | categories | digit\_tot | fas | information | logic\_tot | mmse | symbol | trailsb | waisvocab | mean(sd) |
| a | Level | 106.99 (12.92) <.01 | 105.40 (17.01) <.01 | 105.78 (14.54) <.01 | 105.92 (13.18) <.01 | 107.02 (13.87) <.01 | 104.24 (15.20) <.01 | 106.52 (13.09) <.01 | 105.72 (12.96) <.01 | 106.26 (13.36) <.01 | 106.98 (17.01) <.01 | 106.42 (15.37) <.01 | 106.11(0.83) |
| a | Slope | -2.18 (4.47) .62 | -1.28 (6.41) .84 | -1.75 (4.93) .72 | -1.81 (6.01) .76 | -2.31 (4.48) .60 | -0.88 (5.47) .87 | -1.98 (4.91) .69 | -1.64 (5.96) .78 | -1.81 (4.79) .71 | -2.18 (5.62) .70 | -1.97 (5.80) .73 | -1.80(0.42) |
| a | Level \* age | -0.46 (0.53) .39 | -0.45 (0.62) .47 | -0.57 (0.68) .40 | -0.46 (0.67) .49 | -0.47 (0.68) .49 | -0.46 (0.72) .53 | -0.43 (0.57) .45 | -0.46 (0.56) .41 | -0.45 (0.61) .46 | -0.44 (0.64) .49 | -0.47 (0.68) .49 | -0.47(0.04) |
| a | Level \* education | 0.66 (0.91) .47 | 0.65 (1.25) .61 | 0.74 (1.05) .48 | 0.76 (1.15) .51 | 0.65 (1.01) .52 | 0.80 (1.15) .49 | 0.64 (0.88) .47 | 0.67 (0.95) .48 | 0.62 (0.95) .52 | 0.64 (1.31) .62 | 0.69 (1.13) .54 | 0.68(0.06) |
| a | Level \* height | 0.00 (0.49) .99 | 0.10 (0.45) .83 | 0.10 (0.57) .86 | 0.05 (0.45) .92 | 0.03 (0.49) .95 | 0.11 (0.48) .82 | 0.04 (0.39) .92 | 0.09 (0.45) .84 | 0.05 (0.47) .92 | 0.04 (0.60) .94 | 0.05 (0.47) .92 | 0.06(0.03) |
| a | Level \* smoking | -1.27 (7.51) .87 | -1.14 (7.81) .88 | -1.80 (8.23) .83 | -1.96 (7.59) .80 | -2.14 (7.29) .77 | -1.23 (7.33) .87 | -1.13 (8.30) .89 | -1.54 (6.50) .81 | -1.72 (7.66) .82 | -2.60 (10.83) .81 | -1.64 (7.15) .82 | -1.65(0.46) |
| a | Level \* cardio | -4.79 (12.49) .70 | -4.09 (12.24) .74 | -4.45 (9.55) .64 | -3.95 (13.11) .76 | -4.13 (10.75) .70 | -4.02 (13.51) .77 | -4.29 (11.54) .71 | -4.14 (10.80) .70 | -3.94 (12.01) .74 | -3.59 (13.21) .79 | -4.41 (11.98) .71 | -4.16(0.32) |
| a | Level \* diabetes | -5.23 (8.24) .52 | -4.96 (11.13) .66 | -4.32 (8.16) .60 | -5.23 (9.49) .58 | -4.74 (8.57) .58 | -5.55 (9.74) .57 | -4.97 (9.20) .59 | -4.76 (8.32) .57 | -4.50 (9.49) .64 | -4.75 (9.17) .60 | -5.41 (12.99) .68 | -4.95(0.38) |
| a | Slope \* age | -0.11 (0.18) .56 | -0.12 (0.23) .59 | -0.06 (0.19) .78 | -0.10 (0.24) .68 | -0.09 (0.19) .63 | -0.11 (0.30) .72 | -0.11 (0.22) .61 | -0.11 (0.19) .57 | -0.12 (0.20) .55 | -0.12 (0.22) .59 | -0.10 (0.31) .75 | -0.10(0.02) |
| a | Slope \* education | -0.26 (0.24) .27 | -0.26 (0.38) .50 | -0.31 (0.31) .32 | -0.32 (0.43) .47 | -0.26 (0.27) .34 | -0.33 (0.36) .37 | -0.26 (0.25) .31 | -0.27 (0.31) .39 | -0.23 (0.25) .35 | -0.27 (0.34) .42 | -0.27 (0.35) .43 | -0.28(0.03) |
| a | Slope \* height | 0.07 (0.17) .70 | 0.02 (0.16) .92 | 0.02 (0.18) .91 | 0.05 (0.22) .83 | 0.05 (0.20) .79 | 0.01 (0.18) .95 | 0.05 (0.14) .70 | 0.03 (0.20) .89 | 0.05 (0.16) .77 | 0.05 (0.20) .81 | 0.04 (0.18) .81 | 0.04(0.02) |
| a | Slope \* smoking | 0.82 (2.23) .71 | 0.76 (2.87) .79 | 1.35 (2.73) .62 | 1.28 (2.79) .65 | 1.31 (1.99) .51 | 0.82 (2.71) .76 | 0.70 (2.58) .79 | 0.93 (2.40) .70 | 0.99 (2.09) .64 | 1.66 (2.98) .58 | 1.09 (2.94) .71 | 1.06(0.30) |
| a | Slope \* cardio | 1.57 (3.04) .60 | 1.29 (4.36) .77 | 1.44 (3.43) .67 | 1.12 (3.45) .75 | 1.26 (2.62) .63 | 1.16 (5.28) .83 | 1.29 (2.87) .65 | 1.28 (3.71) .73 | 1.10 (3.31) .74 | 0.94 (4.13) .82 | 1.35 (4.45) .76 | 1.26(0.17) |
| a | Slope \* diabetes | 0.29 (2.80) .92 | 0.26 (4.47) .95 | -0.05 (3.32) .99 | 0.29 (3.71) .94 | -0.03 (3.49) .99 | 0.42 (3.92) .91 | 0.17 (3.08) .95 | 0.16 (3.17) .96 | 0.04 (2.85) .99 | 0.13 (3.82) .97 | 0.34 (5.01) .95 | 0.18(0.15) |
| b | Level | 23.86 (7.14) <.01 | 11.02 (2.04) <.01 | 30.79 (7.67) <.01 | 14.49 (3.40) <.01 | 29.10 (7.48) <.01 | 18.29 (3.87) <.01 | 14.65 (5.22) <.01 | 26.68 (0.88) <.01 | 39.14 (11.01) <.01 | 163.37 (43.63) <.01 | 33.97 (6.68) <.01 | --- |
| b | Slope | 1.75 (1.40) .21 | 0.18 (0.52) .73 | 1.13 (1.73) .52 | -0.18 (0.59) .76 | 1.34 (1.26) .29 | -0.69 (1.12) .54 | 1.79 (1.07) .10 | -0.06 (0.29) .84 | 0.66 (2.43) .79 | -2.91 (10.20) .78 | 1.61 (2.17) .46 | --- |
| b | Level \* age | 0.25 (0.38) .51 | 0.04 (0.08) .62 | -0.13 (0.43) .76 | -0.02 (0.16) .90 | -0.01 (0.43) .98 | -0.06 (0.23) .79 | -0.12 (0.25) .65 | -0.00 (0.04) .98 | -0.12 (0.37) .74 | 0.76 (2.70) .78 | 0.39 (0.35) .27 | --- |
| b | Level \* education | 0.57 (0.55) .29 | 0.09 (0.17) .58 | 1.05 (0.68) .12 | 0.34 (0.25) .18 | 1.59 (0.80) .05 | 0.67 (0.34) .05 | 0.86 (0.34) .01 | 0.06 (0.06) .32 | 1.30 (0.79) .10 | -6.06 (4.23) .15 | 1.54 (0.62) .01 | --- |
| b | Level \* height | 0.04 (0.23) .88 | 0.01 (0.06) .86 | -0.10 (0.20) .62 | -0.14 (0.08) .09 | -0.32 (0.40) .42 | -0.04 (0.17) .82 | 0.09 (0.16) .59 | 0.00 (0.04) .95 | 0.12 (0.34) .73 | -0.69 (1.86) .71 | 0.03 (0.25) .92 | --- |
| b | Level \* smoking | -3.90 (3.61) .28 | 0.92 (0.93) .32 | 3.67 (4.82) .45 | 1.23 (1.74) .48 | 1.48 (4.08) .72 | -0.32 (1.62) .84 | -0.05 (3.23) .99 | -0.22 (0.41) .59 | 0.41 (5.02) .93 | -0.85 (36.70) .98 | -1.53 (3.78) .68 | --- |
| b | Level \* cardio | 0.46 (4.78) .92 | -0.20 (1.46) .89 | -0.54 (8.85) .95 | 0.45 (1.26) .72 | 0.94 (7.76) .90 | -1.21 (2.95) .68 | 1.43 (2.67) .59 | 0.06 (0.63) .92 | -4.75 (6.17) .44 | 19.32 (34.02) .57 | -3.73 (6.34) .56 | --- |
| b | Level \* diabetes | -3.87 (3.34) .25 | -0.39 (1.13) .73 | -1.14 (3.65) .76 | -1.20 (1.79) .50 | -6.29 (4.29) .14 | -1.41 (2.46) .57 | 1.47 (2.28) .52 | -0.09 (0.46) .84 | -4.60 (4.76) .33 | 6.71 (22.98) .77 | 1.28 (4.18) .76 | --- |
| b | Slope \* age | -0.09 (0.08) .27 | -0.03 (0.02) .24 | -0.07 (0.08) .40 | 0.01 (0.04) .79 | -0.02 (0.10) .86 | 0.01 (0.06) .86 | -0.08 (0.06) .22 | -0.00 (0.01) .84 | -0.04 (0.12) .71 | 0.31 (0.63) .62 | -0.09 (0.10) .33 | --- |
| b | Slope \* education | -0.08 (0.11) .44 | -0.00 (0.03) .91 | -0.11 (0.15) .47 | -0.00 (0.04) .94 | -0.14 (0.14) .32 | 0.04 (0.13) .74 | -0.13 (0.08) .08 | 0.00 (0.02) .87 | -0.16 (0.17) .34 | 0.04 (1.00) .97 | -0.06 (0.21) .76 | --- |
| b | Slope \* height | -0.03 (0.05) .55 | 0.00 (0.02) .91 | -0.02 (0.05) .69 | 0.01 (0.02) .73 | 0.00 (0.07) .99 | 0.00 (0.05) .92 | -0.02 (0.04) .62 | -0.00 (0.01) .93 | 0.00 (0.09) .99 | 0.45 (0.50) .37 | -0.02 (0.07) .74 | --- |
| b | Slope \* smoking | 0.19 (0.77) .81 | -0.21 (0.29) .46 | -0.49 (0.91) .59 | -0.16 (0.25) .53 | 0.23 (0.62) .71 | 0.12 (0.56) .84 | -0.08 (0.59) .89 | 0.06 (0.12) .61 | -0.13 (0.96) .89 | -1.75 (9.20) .85 | 0.09 (0.83) .91 | --- |
| b | Slope \* cardio | 0.12 (1.71) .95 | -0.04 (0.90) .96 | 0.10 (1.38) .94 | 0.07 (0.65) .92 | -0.54 (1.60) .73 | -0.10 (0.73) .89 | -0.61 (0.80) .44 | -0.03 (0.33) .93 | 0.56 (1.61) .73 | -7.20 (14.02) .61 | -0.14 (1.37) .92 | --- |
| b | Slope \* diabetes | -0.36 (0.92) .70 | 0.23 (0.27) .40 | 0.35 (0.93) .71 | 0.00 (0.45) .99 | 0.08 (0.86) .92 | -0.09 (0.76) .91 | 0.56 (0.62) .37 | 0.03 (0.14) .84 | 0.40 (0.99) .69 | 2.08 (8.49) .81 | -0.42 (1.09) .69 | --- |
| a | Var (Level) | 212.46 (121.94) .08 | 215.97 (111.91) .05 | 234.13 (143.60) .10 | 234.07 (127.89) .07 | 215.74 (116.46) .06 | 231.54 (138.47) .09 | 216.72 (136.28) .11 | 214.38 (115.83) .06 | 218.55 (138.34) .11 | 226.86 (129.33) .08 | 220.64 (122.80) .07 | 221.91(8.21) |
| a | Var (Slope) | 1.18 (5.85) .84 | 1.25 (5.05) .80 | 2.64 (7.16) .71 | 2.79 (7.78) .72 | 1.29 (5.23) .81 | 1.56 (5.74) .79 | 1.58 (5.86) .79 | 1.22 (5.63) .83 | 2.02 (5.21) .70 | 2.23 (4.95) .65 | 1.69 (5.95) .78 | 1.77(0.58) |
| a | Var (Residual) | 74.20 (17.46) <.01 | 73.90 (19.73) <.01 | 73.27 (18.36) <.01 | 70.98 (13.37) <.01 | 74.16 (16.03) <.01 | 73.80 (19.42) <.01 | 73.31 (15.42) <.01 | 73.97 (20.68) <.01 | 72.69 (17.02) <.01 | 71.78 (14.37) <.01 | 72.87 (15.52) <.01 | 73.17(1.03) |
| a | Covar (Level, Slope) | -0.72 (25.83) .98 | -1.51 (22.87) .95 | -8.10 (29.38) .78 | -7.92 (31.17) .80 | -1.87 (22.81) .94 | -5.83 (25.26) .82 | -2.36 (23.45) .92 | -0.79 (19.94) .97 | -1.69 (24.33) .94 | -5.45 (25.08) .83 | -3.31 (26.61) .90 | -3.60(2.76) |
| b | Var (Level) | 41.50 (20.30) .04 | 1.72 (1.38) .21 | 63.58 (20.38) <.01 | 10.36 (4.42) .02 | 95.48 (34.36) <.01 | 5.32 (4.52) .24 | 25.59 (13.53) .06 | 0.30 (0.30) .31 | 70.69 (42.42) .10 | 1607.71 (1117.90) .15 | 43.80 (27.17) .11 | --- |
| b | Var (Slope) | 0.05 (0.56) .93 | 0.02 (0.05) .62 | 0.87 (0.80) .28 | 0.05 (0.08) .53 | 0.55 (0.76) .47 | 0.02 (0.33) .96 | 0.10 (0.42) .80 | 0.01 (0.02) .75 | 1.12 (0.83) .18 | 28.55 (55.08) .60 | 0.33 (1.46) .82 | --- |
| b | Var (Residual) | 23.59 (2.35) <.01 | 1.61 (0.24) <.01 | 20.20 (3.77) <.01 | 2.60 (0.32) <.01 | 24.82 (3.75) <.01 | 5.22 (1.03) <.01 | 14.46 (2.55) <.01 | 0.67 (0.08) <.01 | 25.56 (3.48) <.01 | 1595.86 (194.81) <.01 | 40.53 (5.45) <.01 | --- |
| b | Covar (Level, Slope) | -0.46 (2.90) .87 | 0.17 (0.25) .49 | -5.17 (3.71) .16 | -0.49 (0.74) .51 | 0.34 (5.47) .95 | 0.16 (1.00) .88 | -0.43 (2.14) .84 | 0.04 (0.07) .58 | 0.65 (6.95) .92 | -86.01 (259.14) .74 | -0.92 (5.99) .88 | --- |
| ab | Covar (Levels) | 27.14 (36.19) .45 | 3.38 (7.86) .67 | 29.43 (52.74) .58 | 2.89 (18.27) .87 | -7.34 (42.33) .86 | 15.52 (18.79) .41 | 13.02 (27.88) .64 | 2.13 (5.14) .68 | 1.16 (35.86) .97 | -9.08 (280.36) .97 | -11.00 (37.25) .77 | --- |
| ab | Covar (Slopes) | 0.04 (1.69) .98 | 0.05 (0.48) .92 | 1.39 (2.30) .55 | 0.26 (0.60) .66 | 0.57 (1.88) .76 | -0.04 (1.26) .98 | 0.25 (1.02) .80 | 0.01 (0.25) .96 | 1.24 (1.96) .53 | -5.16 (15.37) .74 | -0.46 (2.15) .83 | --- |
| ab | Covar (Residuals) | 0.38 (6.15) .95 | -0.25 (2.13) .91 | -0.79 (6.56) .90 | -0.11 (2.49) .96 | -0.82 (9.62) .93 | 0.44 (3.64) .90 | -0.80 (6.03) .89 | 0.22 (1.16) .85 | -1.99 (9.36) .83 | 9.99 (48.12) .84 | -3.34 (12.05) .78 | --- |
|  | Correlation of Levels | 0.289 | 0.175 | 0.241 | 0.0587 | -0.051 | 0.442 | 0.175 | 0.265 | 0.0093 | -0.015 | -0.112 | 0.13(0.17) |
|  | Correlation of Slopes | 0.152 | 0.271 | 0.916 | 0.7161 | 0.675 | -0.215 | 0.624 | 0.140 | 0.8235 | -0.646 | -0.610 | 0.26(0.56) |
|  | Correlation of Residuals | 0.009 | -0.023 | -0.021 | -0.0082 | -0.019 | 0.022 | -0.025 | 0.032 | -0.0461 | 0.030 | -0.061 | -0.01(0.03) |
|  | N | 72 | 72 | 72 | 72 | 72 | 70 | 72 | 72 | 72 | 72 | 72 | 71.82(0.60) |
|  | occasions | 8 | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 7.91(0.30) |
|  | parameters | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41.00(0.00) |
|  | LL | -1,926 | -1,486 | -1,912 | -1,575 | -1,975 | -1,397 | -1,847 | -1,314 | -1,974 | -2,660 | -2,008 | -1,825(376) |
|  | AIC | 3,935 | 3,054 | 3,906 | 3,231 | 4,031 | 2,876 | 3,775 | 2,710 | 4,029 | 5,402 | 4,099 | 3,732(752) |
|  | BIC | 4,028 | 3,147 | 4,000 | 3,324 | 4,125 | 2,969 | 3,869 | 2,803 | 4,123 | 5,495 | 4,192 | 3,825(753) |

## block

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 107.77 (3.23) <.01 | 107.61 (5.32) <.01 | 102.87 (9.91) <.01 | 106.99 (12.92) <.01 | 107.73 (15.97) <.01 |
| a | Slope | -2.08 (0.73) <.01 | -2.04 (1.21) .09 | -0.48 (3.04) .88 | -2.18 (4.47) .62 | -1.48 (6.11) .81 |
| a | Level \* age | -1.06 (0.37) <.01 | -1.06 (0.37) <.01 | -0.42 (0.48) .38 | -0.46 (0.53) .39 | -0.48 (0.59) .41 |
| a | Level \* education | --- | 0.02 (0.60) .97 | 0.69 (0.72) .34 | 0.66 (0.91) .47 | 0.69 (1.03) .50 |
| a | Level \* height | --- | --- | 0.04 (0.35) .91 | 0.00 (0.49) .99 | -0.04 (0.52) .95 |
| a | Level \* smoking | --- | --- | --- | -1.27 (7.51) .87 | -1.26 (8.27) .88 |
| a | Level \* cardio | --- | --- | --- | -4.79 (12.49) .70 | -4.62 (13.54) .73 |
| a | Level \* diabetes | --- | --- | --- | -5.23 (8.24) .52 | -5.15 (8.27) .53 |
| a | Slope \* age | -0.10 (0.09) .25 | -0.10 (0.09) .25 | -0.14 (0.16) .38 | -0.11 (0.18) .56 | -0.11 (0.26) .67 |
| a | Slope \* education | --- | -0.00 (0.15) .97 | -0.27 (0.19) .16 | -0.26 (0.24) .27 | -0.29 (0.30) .34 |
| a | Slope \* height | --- | --- | 0.04 (0.14) .80 | 0.07 (0.17) .70 | 0.10 (0.20) .64 |
| a | Slope \* smoking | --- | --- | --- | 0.82 (2.23) .71 | 0.44 (2.63) .87 |
| a | Slope \* cardio | --- | --- | --- | 1.57 (3.04) .60 | 1.63 (3.30) .62 |
| a | Slope \* diabetes | --- | --- | --- | 0.29 (2.80) .92 | 0.68 (2.61) .79 |
| b | Level | 20.48 (1.04) <.01 | 20.44 (1.08) <.01 | 19.41 (6.07) <.01 | 23.86 (7.14) <.01 | 22.34 (9.15) .01 |
| b | Slope | 0.93 (0.21) <.01 | 0.93 (0.31) <.01 | 1.84 (1.10) .10 | 1.75 (1.40) .21 | 1.43 (1.89) .45 |
| b | Level \* age | 0.00 (0.11) .99 | 0.00 (0.11) .99 | 0.32 (0.37) .39 | 0.25 (0.38) .51 | 0.28 (0.48) .56 |
| b | Level \* education | --- | 0.00 (0.04) .90 | 0.71 (0.48) .14 | 0.57 (0.55) .29 | 0.54 (0.60) .37 |
| b | Level \* height | --- | --- | 0.00 (0.17) .98 | 0.04 (0.23) .88 | 0.08 (0.27) .78 |
| b | Level \* smoking | --- | --- | --- | -3.90 (3.61) .28 | -3.46 (4.04) .39 |
| b | Level \* cardio | --- | --- | --- | 0.46 (4.78) .92 | -0.21 (4.56) .96 |
| b | Level \* diabetes | --- | --- | --- | -3.87 (3.34) .25 | -4.17 (4.20) .32 |
| b | Slope \* age | -0.06 (0.02) <.01 | -0.06 (0.02) <.01 | -0.09 (0.06) .13 | -0.09 (0.08) .27 | -0.08 (0.09) .38 |
| b | Slope \* education | --- | -0.00 (0.03) .98 | -0.09 (0.08) .30 | -0.08 (0.11) .44 | -0.06 (0.10) .57 |
| b | Slope \* height | --- | --- | -0.03 (0.04) .45 | -0.03 (0.05) .55 | -0.06 (0.07) .45 |
| b | Slope \* smoking | --- | --- | --- | 0.19 (0.77) .81 | 0.35 (0.84) .68 |
| b | Slope \* cardio | --- | --- | --- | 0.12 (1.71) .95 | 0.16 (1.56) .92 |
| b | Slope \* diabetes | --- | --- | --- | -0.36 (0.92) .70 | -0.62 (1.29) .63 |
| a | Var (Level) | 320.48 (57.32) <.01 | 319.62 (57.93) <.01 | 211.98 (81.57) .01 | 212.46 (121.94) .08 | 215.40 (125.45) .09 |
| a | Var (Slope) | 2.42 (1.49) .10 | 2.37 (1.56) .13 | 1.69 (4.42) .70 | 1.18 (5.85) .84 | 0.86 (6.31) .89 |
| a | Var (Residual) | 79.81 (7.17) <.01 | 79.90 (7.24) <.01 | 73.33 (14.71) <.01 | 74.20 (17.46) <.01 | 74.81 (19.04) <.01 |
| a | Covar (Level, Slope) | 5.66 (9.90) .57 | 5.88 (10.11) .56 | 1.59 (18.65) .93 | -0.72 (25.83) .98 | -2.32 (26.74) .93 |
| b | Var (Level) | 76.85 (8.72) <.01 | 76.75 (8.77) <.01 | 46.49 (18.73) .01 | 41.50 (20.30) .04 | 42.89 (22.64) .06 |
| b | Var (Slope) | 0.17 (0.20) .40 | 0.16 (0.23) .48 | 0.07 (0.47) .89 | 0.05 (0.56) .93 | 0.18 (0.75) .81 |
| b | Var (Residual) | 22.26 (1.12) <.01 | 22.27 (1.13) <.01 | 23.60 (2.29) <.01 | 23.59 (2.35) <.01 | 23.43 (2.85) <.01 |
| b | Covar (Level, Slope) | -2.16 (1.32) .10 | -2.14 (1.45) .14 | -0.03 (2.50) .99 | -0.46 (2.90) .87 | -1.46 (3.64) .69 |
| ab | Covar (Levels) | 62.39 (17.83) <.01 | 62.16 (19.39) <.01 | 28.14 (30.77) .36 | 27.14 (36.19) .45 | 24.18 (43.94) .58 |
| ab | Covar (Slopes) | 0.25 (0.44) .58 | 0.25 (0.48) .61 | 0.07 (1.20) .95 | 0.04 (1.69) .98 | 0.07 (1.82) .97 |
| ab | Covar (Residuals) | -2.04 (3.05) .50 | -2.06 (3.10) .51 | 0.61 (5.36) .91 | 0.38 (6.15) .95 | 0.12 (6.70) .98 |
|  | Correlation of Levels | 0.398 | 0.397 | 0.284 | 0.289 | 0.252 |
|  | Correlation of Slopes | 0.392 | 0.396 | 0.217 | 0.152 | 0.172 |
|  | Correlation of Residuals | -0.048 | -0.049 | 0.015 | 0.009 | 0.003 |
|  | N | 350 | 350 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -5,410 | -5,410 | -1,934 | -1,926 | -1,921 |
|  | AIC | 10,863 | 10,870 | 3,925 | 3,935 | 3,932 |
|  | BIC | 10,944 | 10,967 | 3,991 | 4,028 | 4,034 |

## bnt

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 109.08 (3.34) <.01 | 108.47 (5.63) <.01 | 101.88 (11.39) <.01 | 105.40 (17.01) <.01 | 106.60 (18.89) <.01 |
| a | Slope | -2.31 (0.80) <.01 | -2.29 (1.27) .07 | 0.14 (3.42) .97 | -1.28 (6.41) .84 | -0.95 (7.91) .90 |
| a | Level \* age | -0.99 (0.36) .01 | -0.98 (0.36) .01 | -0.43 (0.51) .41 | -0.45 (0.62) .47 | -0.47 (0.73) .52 |
| a | Level \* education | --- | 0.08 (0.61) .89 | 0.66 (0.80) .41 | 0.65 (1.25) .61 | 0.71 (1.32) .59 |
| a | Level \* height | --- | --- | 0.13 (0.37) .72 | 0.10 (0.45) .83 | -0.02 (0.50) .97 |
| a | Level \* smoking | --- | --- | --- | -1.14 (7.81) .88 | -0.89 (8.12) .91 |
| a | Level \* cardio | --- | --- | --- | -4.09 (12.24) .74 | -4.37 (13.60) .75 |
| a | Level \* diabetes | --- | --- | --- | -4.96 (11.13) .66 | -5.64 (11.52) .62 |
| a | Slope \* age | -0.10 (0.09) .26 | -0.10 (0.09) .26 | -0.15 (0.17) .39 | -0.12 (0.23) .59 | -0.12 (0.24) .61 |
| a | Slope \* education | --- | -0.00 (0.14) .98 | -0.26 (0.19) .18 | -0.26 (0.38) .50 | -0.29 (0.45) .51 |
| a | Slope \* height | --- | --- | -0.01 (0.12) .95 | 0.02 (0.16) .92 | 0.09 (0.19) .62 |
| a | Slope \* smoking | --- | --- | --- | 0.76 (2.87) .79 | 0.27 (3.46) .94 |
| a | Slope \* cardio | --- | --- | --- | 1.29 (4.36) .77 | 1.59 (3.77) .67 |
| a | Slope \* diabetes | --- | --- | --- | 0.26 (4.47) .95 | 0.96 (3.93) .81 |
| b | Level | 12.06 (0.28) <.01 | 12.05 (0.29) <.01 | 11.77 (1.17) <.01 | 11.02 (2.04) <.01 | 10.81 (2.14) <.01 |
| b | Slope | -0.02 (0.06) .79 | -0.02 (0.10) .86 | 0.03 (0.35) .93 | 0.18 (0.52) .73 | 0.27 (0.58) .64 |
| b | Level \* age | -0.01 (0.03) .65 | -0.01 (0.03) .66 | 0.02 (0.06) .73 | 0.04 (0.08) .62 | 0.05 (0.10) .62 |
| b | Level \* education | --- | 0.00 (0.01) .95 | 0.07 (0.10) .45 | 0.09 (0.17) .58 | 0.10 (0.17) .56 |
| b | Level \* height | --- | --- | 0.01 (0.05) .82 | 0.01 (0.06) .86 | 0.00 (0.05) .99 |
| b | Level \* smoking | --- | --- | --- | 0.92 (0.93) .32 | 1.03 (1.07) .33 |
| b | Level \* cardio | --- | --- | --- | -0.20 (1.46) .89 | -0.25 (1.39) .86 |
| b | Level \* diabetes | --- | --- | --- | -0.39 (1.13) .73 | -0.54 (1.16) .64 |
| b | Slope \* age | -0.01 (0.01) .08 | -0.01 (0.01) .08 | -0.02 (0.02) .18 | -0.03 (0.02) .24 | -0.03 (0.03) .33 |
| b | Slope \* education | --- | 0.00 (0.01) .99 | -0.00 (0.02) .92 | -0.00 (0.03) .91 | -0.01 (0.04) .84 |
| b | Slope \* height | --- | --- | 0.00 (0.01) .74 | 0.00 (0.02) .91 | 0.01 (0.02) .69 |
| b | Slope \* smoking | --- | --- | --- | -0.21 (0.29) .46 | -0.26 (0.35) .45 |
| b | Slope \* cardio | --- | --- | --- | -0.04 (0.90) .96 | -0.03 (0.71) .97 |
| b | Slope \* diabetes | --- | --- | --- | 0.23 (0.27) .40 | 0.29 (0.29) .30 |
| a | Var (Level) | 324.68 (57.23) <.01 | 322.88 (59.41) <.01 | 215.74 (87.78) .01 | 215.97 (111.91) .05 | 219.36 (129.30) .09 |
| a | Var (Slope) | 2.13 (1.44) .14 | 2.08 (1.49) .16 | 1.65 (3.86) .67 | 1.25 (5.05) .80 | 0.91 (5.24) .86 |
| a | Var (Residual) | 79.77 (7.40) <.01 | 79.85 (7.52) <.01 | 73.53 (14.71) <.01 | 73.90 (19.73) <.01 | 75.46 (21.12) <.01 |
| a | Covar (Level, Slope) | 5.96 (9.26) .52 | 6.24 (9.37) .51 | 0.45 (18.55) .98 | -1.51 (22.87) .95 | -4.04 (25.84) .88 |
| b | Var (Level) | 4.51 (0.56) <.01 | 4.51 (0.57) <.01 | 1.79 (1.06) .09 | 1.72 (1.38) .21 | 1.64 (1.56) .29 |
| b | Var (Slope) | 0.00 (0.02) .78 | 0.00 (0.02) .80 | 0.02 (0.04) .62 | 0.02 (0.05) .62 | 0.03 (0.05) .61 |
| b | Var (Residual) | 1.97 (0.10) <.01 | 1.97 (0.10) <.01 | 1.67 (0.15) <.01 | 1.61 (0.24) <.01 | 1.59 (0.23) <.01 |
| b | Covar (Level, Slope) | 0.04 (0.10) .71 | 0.04 (0.10) .71 | 0.16 (0.19) .40 | 0.17 (0.25) .49 | 0.19 (0.26) .47 |
| ab | Covar (Levels) | 7.66 (5.04) .13 | 7.51 (5.28) .15 | 4.23 (6.20) .49 | 3.38 (7.86) .67 | 3.62 (8.28) .66 |
| ab | Covar (Slopes) | 0.04 (0.16) .83 | 0.04 (0.16) .83 | 0.06 (0.38) .88 | 0.05 (0.48) .92 | 0.06 (0.49) .91 |
| ab | Covar (Residuals) | 0.40 (0.78) .60 | 0.40 (0.79) .61 | -0.40 (1.55) .80 | -0.25 (2.13) .91 | -0.32 (2.28) .89 |
|  | Correlation of Levels | 0.200 | 0.197 | 0.215 | 0.175 | 0.191 |
|  | Correlation of Slopes | 0.379 | 0.383 | 0.333 | 0.271 | 0.364 |
|  | Correlation of Residuals | 0.032 | 0.032 | -0.036 | -0.023 | -0.029 |
|  | N | 376 | 376 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -4,261 | -4,261 | -1,493 | -1,486 | -1,484 |
|  | AIC | 8,564 | 8,572 | 3,044 | 3,054 | 3,057 |
|  | BIC | 8,647 | 8,670 | 3,110 | 3,147 | 3,160 |

## categories

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 109.17 (3.39) <.01 | 106.56 (5.88) <.01 | 101.75 (10.95) <.01 | 105.78 (14.54) <.01 | 107.65 (19.03) <.01 |
| a | Slope | -2.40 (0.78) <.01 | -1.54 (1.14) .18 | 0.27 (2.93) .93 | -1.75 (4.93) .72 | -1.70 (6.64) .80 |
| a | Level \* age | -1.07 (0.38) <.01 | -1.05 (0.38) .01 | -0.48 (0.54) .37 | -0.57 (0.68) .40 | -0.56 (0.77) .47 |
| a | Level \* education | --- | 0.35 (0.62) .58 | 0.69 (0.86) .42 | 0.74 (1.05) .48 | 0.79 (1.23) .52 |
| a | Level \* height | --- | --- | 0.15 (0.38) .69 | 0.10 (0.57) .86 | 0.02 (0.59) .97 |
| a | Level \* smoking | --- | --- | --- | -1.80 (8.23) .83 | -2.23 (9.45) .81 |
| a | Level \* cardio | --- | --- | --- | -4.45 (9.55) .64 | -4.18 (11.68) .72 |
| a | Level \* diabetes | --- | --- | --- | -4.32 (8.16) .60 | -4.53 (10.07) .65 |
| a | Slope \* age | -0.08 (0.09) .34 | -0.09 (0.09) .28 | -0.13 (0.16) .41 | -0.06 (0.19) .78 | -0.07 (0.23) .76 |
| a | Slope \* education | --- | -0.11 (0.14) .40 | -0.28 (0.20) .16 | -0.31 (0.31) .32 | -0.34 (0.36) .33 |
| a | Slope \* height | --- | --- | -0.02 (0.11) .87 | 0.02 (0.18) .91 | 0.07 (0.18) .70 |
| a | Slope \* smoking | --- | --- | --- | 1.35 (2.73) .62 | 1.18 (3.39) .73 |
| a | Slope \* cardio | --- | --- | --- | 1.44 (3.43) .67 | 1.50 (3.64) .68 |
| a | Slope \* diabetes | --- | --- | --- | -0.05 (3.32) .99 | 0.40 (3.74) .91 |
| b | Level | 36.92 (0.96) <.01 | 36.78 (1.01) <.01 | 33.92 (5.40) <.01 | 30.79 (7.67) <.01 | 32.96 (8.50) <.01 |
| b | Slope | -0.20 (0.23) .38 | -0.14 (0.35) .69 | 0.81 (1.23) .51 | 1.13 (1.73) .52 | 0.94 (1.98) .64 |
| b | Level \* age | -0.19 (0.10) .05 | -0.19 (0.10) .05 | -0.21 (0.41) .61 | -0.13 (0.43) .76 | -0.17 (0.50) .73 |
| b | Level \* education | --- | 0.02 (0.04) .67 | 0.94 (0.55) .09 | 1.05 (0.68) .12 | 1.03 (0.73) .16 |
| b | Level \* height | --- | --- | -0.08 (0.16) .62 | -0.10 (0.20) .62 | -0.09 (0.24) .71 |
| b | Level \* smoking | --- | --- | --- | 3.67 (4.82) .45 | 2.79 (5.48) .61 |
| b | Level \* cardio | --- | --- | --- | -0.54 (8.85) .95 | 0.13 (9.99) .99 |
| b | Level \* diabetes | --- | --- | --- | -1.14 (3.65) .76 | -0.25 (3.61) .95 |
| b | Slope \* age | -0.04 (0.02) .09 | -0.04 (0.02) .09 | -0.06 (0.08) .47 | -0.07 (0.08) .40 | -0.07 (0.09) .47 |
| b | Slope \* education | --- | -0.01 (0.04) .79 | -0.10 (0.12) .39 | -0.11 (0.15) .47 | -0.11 (0.17) .54 |
| b | Slope \* height | --- | --- | -0.02 (0.04) .55 | -0.02 (0.05) .69 | -0.02 (0.07) .73 |
| b | Slope \* smoking | --- | --- | --- | -0.49 (0.91) .59 | -0.39 (1.02) .70 |
| b | Slope \* cardio | --- | --- | --- | 0.10 (1.38) .94 | 0.05 (1.47) .97 |
| b | Slope \* diabetes | --- | --- | --- | 0.35 (0.93) .71 | 0.25 (0.98) .80 |
| a | Var (Level) | 332.03 (60.70) <.01 | 324.04 (61.83) <.01 | 225.39 (105.12) .03 | 234.13 (143.60) .10 | 239.78 (151.76) .11 |
| a | Var (Slope) | 2.49 (1.51) .10 | 2.05 (1.44) .15 | 2.27 (4.39) .60 | 2.64 (7.16) .71 | 3.02 (7.82) .70 |
| a | Var (Residual) | 78.92 (7.22) <.01 | 79.62 (7.39) <.01 | 72.42 (16.01) <.01 | 73.27 (18.36) <.01 | 72.28 (20.08) <.01 |
| a | Covar (Level, Slope) | 4.36 (10.19) .67 | 6.14 (9.96) .54 | -2.08 (21.01) .92 | -8.10 (29.38) .78 | -11.16 (31.48) .72 |
| b | Var (Level) | 70.51 (7.82) <.01 | 70.07 (7.80) <.01 | 67.22 (17.96) <.01 | 63.58 (20.38) <.01 | 62.03 (20.94) <.01 |
| b | Var (Slope) | 0.72 (0.26) .01 | 0.69 (0.26) .01 | 0.94 (0.64) .14 | 0.87 (0.80) .28 | 0.87 (1.00) .38 |
| b | Var (Residual) | 20.68 (1.12) <.01 | 20.71 (1.13) <.01 | 20.22 (3.15) <.01 | 20.20 (3.77) <.01 | 20.16 (3.91) <.01 |
| b | Covar (Level, Slope) | -4.01 (1.22) <.01 | -3.88 (1.25) <.01 | -5.78 (3.38) .09 | -5.17 (3.71) .16 | -5.13 (4.17) .22 |
| ab | Covar (Levels) | 41.78 (23.13) .07 | 37.36 (24.52) .13 | 26.83 (43.56) .54 | 29.43 (52.74) .58 | 24.30 (55.17) .66 |
| ab | Covar (Slopes) | 0.60 (0.86) .49 | 0.40 (0.86) .64 | 0.88 (1.49) .56 | 1.39 (2.30) .55 | 1.17 (2.71) .66 |
| ab | Covar (Residuals) | -1.02 (2.86) .72 | -0.95 (2.94) .75 | -0.98 (5.24) .85 | -0.79 (6.56) .90 | -0.92 (8.14) .91 |
|  | Correlation of Levels | 0.273 | 0.248 | 0.218 | 0.241 | 0.199 |
|  | Correlation of Slopes | 0.447 | 0.335 | 0.601 | 0.916 | 0.722 |
|  | Correlation of Residuals | -0.025 | -0.023 | -0.026 | -0.021 | -0.024 |
|  | N | 376 | 376 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -5,609 | -5,608 | -1,916 | -1,912 | -1,911 |
|  | AIC | 11,260 | 11,266 | 3,891 | 3,906 | 3,911 |
|  | BIC | 11,343 | 11,365 | 3,957 | 4,000 | 4,014 |

## digit\_tot

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 108.58 (3.32) <.01 | 105.04 (5.42) <.01 | 101.54 (10.67) <.01 | 105.92 (13.18) <.01 | 107.41 (18.64) <.01 |
| a | Slope | -2.28 (0.69) <.01 | -1.11 (1.19) .35 | 0.19 (3.16) .95 | -1.81 (6.01) .76 | -1.68 (7.17) .81 |
| a | Level \* age | -1.02 (0.38) .01 | -1.00 (0.38) .01 | -0.44 (0.60) .46 | -0.46 (0.67) .49 | -0.49 (0.78) .53 |
| a | Level \* education | --- | 0.48 (0.57) .40 | 0.75 (0.85) .38 | 0.76 (1.15) .51 | 0.81 (1.44) .57 |
| a | Level \* height | --- | --- | 0.12 (0.37) .75 | 0.05 (0.45) .92 | -0.04 (0.50) .93 |
| a | Level \* smoking | --- | --- | --- | -1.96 (7.59) .80 | -1.99 (9.25) .83 |
| a | Level \* cardio | --- | --- | --- | -3.95 (13.11) .76 | -4.29 (12.80) .74 |
| a | Level \* diabetes | --- | --- | --- | -5.23 (9.49) .58 | -5.71 (8.65) .51 |
| a | Slope \* age | -0.10 (0.08) .23 | -0.11 (0.08) .20 | -0.14 (0.19) .48 | -0.10 (0.24) .68 | -0.09 (0.25) .71 |
| a | Slope \* education | --- | -0.15 (0.14) .27 | -0.30 (0.21) .16 | -0.32 (0.43) .47 | -0.35 (0.51) .49 |
| a | Slope \* height | --- | --- | 0.00 (0.13) .98 | 0.05 (0.22) .83 | 0.11 (0.23) .63 |
| a | Slope \* smoking | --- | --- | --- | 1.28 (2.79) .65 | 0.94 (2.94) .75 |
| a | Slope \* cardio | --- | --- | --- | 1.12 (3.45) .75 | 1.48 (3.36) .66 |
| a | Slope \* diabetes | --- | --- | --- | 0.29 (3.71) .94 | 0.84 (3.23) .80 |
| b | Level | 13.75 (0.39) <.01 | 13.74 (0.40) <.01 | 15.57 (1.98) <.01 | 14.49 (3.40) <.01 | 15.09 (3.65) <.01 |
| b | Slope | 0.20 (0.08) .02 | 0.16 (0.11) .12 | -0.34 (0.45) .45 | -0.18 (0.59) .76 | -0.29 (0.62) .64 |
| b | Level \* age | -0.03 (0.04) .50 | -0.03 (0.04) .50 | -0.04 (0.13) .74 | -0.02 (0.16) .90 | -0.03 (0.19) .86 |
| b | Level \* education | --- | 0.00 (0.01) .98 | 0.30 (0.18) .10 | 0.34 (0.25) .18 | 0.33 (0.27) .22 |
| b | Level \* height | --- | --- | -0.14 (0.07) .04 | -0.14 (0.08) .09 | -0.13 (0.09) .15 |
| b | Level \* smoking | --- | --- | --- | 1.23 (1.74) .48 | 0.96 (2.02) .63 |
| b | Level \* cardio | --- | --- | --- | 0.45 (1.26) .72 | 0.62 (1.45) .67 |
| b | Level \* diabetes | --- | --- | --- | -1.20 (1.79) .50 | -0.92 (1.73) .60 |
| b | Slope \* age | -0.00 (0.01) .61 | -0.00 (0.01) .62 | 0.01 (0.03) .64 | 0.01 (0.04) .79 | 0.01 (0.04) .73 |
| b | Slope \* education | --- | 0.00 (0.01) .66 | -0.00 (0.03) .98 | -0.00 (0.04) .94 | 0.00 (0.04) .99 |
| b | Slope \* height | --- | --- | 0.01 (0.02) .57 | 0.01 (0.02) .73 | 0.00 (0.03) .90 |
| b | Slope \* smoking | --- | --- | --- | -0.16 (0.25) .53 | -0.11 (0.29) .71 |
| b | Slope \* cardio | --- | --- | --- | 0.07 (0.65) .92 | 0.05 (0.49) .92 |
| b | Slope \* diabetes | --- | --- | --- | 0.00 (0.45) .99 | -0.06 (0.43) .89 |
| a | Var (Level) | 328.54 (58.53) <.01 | 322.92 (60.27) <.01 | 232.37 (94.46) .01 | 234.07 (127.89) .07 | 236.19 (149.35) .11 |
| a | Var (Slope) | 2.10 (1.38) .13 | 1.74 (1.40) .21 | 2.59 (4.94) .60 | 2.79 (7.78) .72 | 2.55 (9.68) .79 |
| a | Var (Residual) | 79.83 (7.08) <.01 | 80.45 (7.29) <.01 | 71.46 (13.35) <.01 | 70.98 (13.37) <.01 | 71.94 (28.08) .01 |
| a | Covar (Level, Slope) | 5.03 (10.18) .62 | 6.00 (10.17) .56 | -4.45 (21.17) .83 | -7.92 (31.17) .80 | -9.90 (39.83) .80 |
| b | Var (Level) | 12.47 (1.28) <.01 | 12.47 (1.30) <.01 | 10.76 (3.39) <.01 | 10.36 (4.42) .02 | 10.32 (4.40) .02 |
| b | Var (Slope) | 0.02 (0.02) .37 | 0.02 (0.03) .36 | 0.05 (0.06) .38 | 0.05 (0.08) .53 | 0.04 (0.10) .66 |
| b | Var (Residual) | 3.10 (0.17) <.01 | 3.09 (0.17) <.01 | 2.60 (0.28) <.01 | 2.60 (0.32) <.01 | 2.58 (0.33) <.01 |
| b | Covar (Level, Slope) | -0.34 (0.19) .08 | -0.36 (0.20) .07 | -0.48 (0.52) .35 | -0.49 (0.74) .51 | -0.48 (0.79) .54 |
| ab | Covar (Levels) | 19.23 (8.80) .03 | 17.59 (8.78) .04 | 5.32 (16.39) .75 | 2.89 (18.27) .87 | 0.84 (19.90) .97 |
| ab | Covar (Slopes) | 0.04 (0.13) .77 | 0.02 (0.14) .91 | 0.29 (0.43) .51 | 0.26 (0.60) .66 | 0.23 (0.55) .67 |
| ab | Covar (Residuals) | -0.22 (1.19) .86 | -0.24 (1.21) .84 | 0.04 (2.04) .98 | -0.11 (2.49) .96 | -0.08 (2.88) .98 |
|  | Correlation of Levels | 0.301 | 0.277 | 0.1064 | 0.0587 | 0.0171 |
|  | Correlation of Slopes | 0.177 | 0.078 | 0.7892 | 0.7161 | 0.6795 |
|  | Correlation of Residuals | -0.014 | -0.015 | 0.0033 | -0.0082 | -0.0062 |
|  | N | 379 | 379 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -4,579 | -4,577 | -1,579 | -1,575 | -1,572 |
|  | AIC | 9,199 | 9,204 | 3,216 | 3,231 | 3,235 |
|  | BIC | 9,282 | 9,302 | 3,282 | 3,324 | 3,337 |

## fas

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 108.36 (3.17) <.01 | 107.08 (5.22) <.01 | 102.31 (10.28) <.01 | 107.02 (13.87) <.01 | 107.87 (17.89) <.01 |
| a | Slope | -2.14 (0.73) <.01 | -1.34 (1.12) .23 | -0.19 (2.92) .95 | -2.31 (4.48) .60 | -1.79 (7.08) .80 |
| a | Level \* age | -0.98 (0.34) <.01 | -0.98 (0.34) <.01 | -0.43 (0.50) .40 | -0.47 (0.68) .49 | -0.47 (0.68) .49 |
| a | Level \* education | --- | 0.17 (0.56) .76 | 0.64 (0.78) .41 | 0.65 (1.01) .52 | 0.72 (1.17) .54 |
| a | Level \* height | --- | --- | 0.11 (0.38) .78 | 0.03 (0.49) .95 | -0.08 (0.48) .87 |
| a | Level \* smoking | --- | --- | --- | -2.14 (7.29) .77 | -1.77 (9.48) .85 |
| a | Level \* cardio | --- | --- | --- | -4.13 (10.75) .70 | -4.54 (11.48) .69 |
| a | Level \* diabetes | --- | --- | --- | -4.74 (8.57) .58 | -5.52 (8.98) .54 |
| a | Slope \* age | -0.12 (0.08) .17 | -0.12 (0.08) .15 | -0.14 (0.16) .37 | -0.09 (0.19) .63 | -0.10 (0.23) .66 |
| a | Slope \* education | --- | -0.11 (0.13) .41 | -0.24 (0.19) .21 | -0.26 (0.27) .34 | -0.31 (0.36) .40 |
| a | Slope \* height | --- | --- | 0.00 (0.12) .99 | 0.05 (0.20) .79 | 0.13 (0.18) .48 |
| a | Slope \* smoking | --- | --- | --- | 1.31 (1.99) .51 | 0.75 (2.48) .76 |
| a | Slope \* cardio | --- | --- | --- | 1.26 (2.62) .63 | 1.66 (2.56) .52 |
| a | Slope \* diabetes | --- | --- | --- | -0.03 (3.49) .99 | 0.70 (3.33) .83 |
| b | Level | 31.26 (1.46) <.01 | 31.27 (1.51) <.01 | 29.58 (6.51) <.01 | 29.10 (7.48) <.01 | 31.34 (8.03) <.01 |
| b | Slope | 0.33 (0.26) .20 | 0.26 (0.41) .53 | 1.42 (1.01) .16 | 1.34 (1.26) .29 | 1.22 (1.31) .35 |
| b | Level \* age | 0.19 (0.15) .18 | 0.19 (0.15) .19 | -0.04 (0.40) .93 | -0.01 (0.43) .98 | -0.05 (0.42) .91 |
| b | Level \* education | --- | -0.00 (0.05) .95 | 1.53 (0.61) .01 | 1.59 (0.80) .05 | 1.58 (0.86) .07 |
| b | Level \* height | --- | --- | -0.34 (0.26) .20 | -0.32 (0.40) .42 | -0.31 (0.44) .48 |
| b | Level \* smoking | --- | --- | --- | 1.48 (4.08) .72 | 0.55 (4.46) .90 |
| b | Level \* cardio | --- | --- | --- | 0.94 (7.76) .90 | 1.64 (7.88) .83 |
| b | Level \* diabetes | --- | --- | --- | -6.29 (4.29) .14 | -5.35 (4.88) .27 |
| b | Slope \* age | -0.02 (0.03) .47 | -0.02 (0.03) .48 | -0.02 (0.05) .69 | -0.02 (0.10) .86 | -0.01 (0.10) .88 |
| b | Slope \* education | --- | 0.01 (0.05) .83 | -0.14 (0.12) .26 | -0.14 (0.14) .32 | -0.13 (0.14) .33 |
| b | Slope \* height | --- | --- | 0.00 (0.05) .98 | 0.00 (0.07) .99 | -0.01 (0.08) .94 |
| b | Slope \* smoking | --- | --- | --- | 0.23 (0.62) .71 | 0.29 (0.76) .70 |
| b | Slope \* cardio | --- | --- | --- | -0.54 (1.60) .73 | -0.56 (1.67) .74 |
| b | Slope \* diabetes | --- | --- | --- | 0.08 (0.86) .92 | 0.00 (0.95) .99 |
| a | Var (Level) | 318.56 (55.81) <.01 | 317.26 (57.69) <.01 | 201.58 (87.47) .02 | 215.74 (116.46) .06 | 219.15 (134.09) .10 |
| a | Var (Slope) | 2.18 (1.43) .13 | 1.94 (1.43) .17 | 0.78 (3.06) .80 | 1.29 (5.23) .81 | 0.96 (6.22) .88 |
| a | Var (Residual) | 79.81 (7.05) <.01 | 80.07 (7.30) <.01 | 75.54 (14.82) <.01 | 74.16 (16.03) <.01 | 75.31 (18.91) <.01 |
| a | Covar (Level, Slope) | 6.56 (9.45) .49 | 6.93 (9.53) .47 | 5.18 (15.85) .74 | -1.87 (22.81) .94 | -4.11 (30.44) .89 |
| b | Var (Level) | 137.54 (14.08) <.01 | 137.79 (14.30) <.01 | 102.61 (30.46) <.01 | 95.48 (34.36) <.01 | 94.26 (31.75) <.01 |
| b | Var (Slope) | 0.51 (0.34) .14 | 0.52 (0.37) .16 | 0.57 (0.65) .38 | 0.55 (0.76) .47 | 0.54 (0.79) .49 |
| b | Var (Residual) | 29.60 (1.57) <.01 | 29.59 (1.62) <.01 | 24.82 (2.96) <.01 | 24.82 (3.75) <.01 | 24.81 (4.33) <.01 |
| b | Covar (Level, Slope) | -1.84 (2.18) .40 | -2.01 (2.34) .39 | 0.34 (4.58) .94 | 0.34 (5.47) .95 | 0.21 (5.26) .97 |
| ab | Covar (Levels) | 62.42 (25.06) .01 | 59.80 (25.70) .02 | -5.51 (32.70) .87 | -7.34 (42.33) .86 | -14.24 (49.10) .77 |
| ab | Covar (Slopes) | 0.83 (0.85) .33 | 0.74 (0.84) .38 | 0.23 (1.36) .87 | 0.57 (1.88) .76 | 0.48 (1.83) .79 |
| ab | Covar (Residuals) | 1.75 (3.41) .61 | 1.55 (3.44) .65 | -0.24 (7.35) .97 | -0.82 (9.62) .93 | -0.19 (11.00) .99 |
|  | Correlation of Levels | 0.298 | 0.286 | -0.0383 | -0.051 | -0.0991 |
|  | Correlation of Slopes | 0.784 | 0.741 | 0.3426 | 0.675 | 0.6628 |
|  | Correlation of Residuals | 0.036 | 0.032 | -0.0056 | -0.019 | -0.0043 |
|  | N | 358 | 358 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -5,704 | -5,703 | -1,980 | -1,975 | -1,973 |
|  | AIC | 11,450 | 11,457 | 4,018 | 4,031 | 4,035 |
|  | BIC | 11,532 | 11,554 | 4,084 | 4,125 | 4,138 |

## information

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 109.34 (3.26) <.01 | 105.88 (5.70) <.01 | 100.72 (10.57) <.01 | 104.24 (15.20) <.01 | 105.81 (19.36) <.01 |
| a | Slope | -2.24 (0.73) <.01 | -1.50 (1.14) .19 | 0.55 (3.06) .86 | -0.88 (5.47) .87 | -0.75 (6.82) .91 |
| a | Level \* age | -0.96 (0.36) .01 | -0.96 (0.35) .01 | -0.44 (0.56) .43 | -0.46 (0.72) .53 | -0.48 (0.85) .57 |
| a | Level \* education | --- | 0.50 (0.64) .43 | 0.81 (0.77) .29 | 0.80 (1.15) .49 | 0.83 (1.42) .56 |
| a | Level \* height | --- | --- | 0.15 (0.39) .71 | 0.11 (0.48) .82 | 0.04 (0.47) .94 |
| a | Level \* smoking | --- | --- | --- | -1.23 (7.33) .87 | -1.36 (8.68) .88 |
| a | Level \* cardio | --- | --- | --- | -4.02 (13.51) .77 | -3.98 (16.28) .81 |
| a | Level \* diabetes | --- | --- | --- | -5.55 (9.74) .57 | -5.68 (10.25) .58 |
| a | Slope \* age | -0.12 (0.08) .14 | -0.12 (0.08) .13 | -0.13 (0.18) .46 | -0.11 (0.30) .72 | -0.11 (0.37) .78 |
| a | Slope \* education | --- | -0.10 (0.14) .44 | -0.32 (0.21) .12 | -0.33 (0.36) .37 | -0.35 (0.49) .47 |
| a | Slope \* height | --- | --- | -0.02 (0.11) .88 | 0.01 (0.18) .95 | 0.06 (0.18) .73 |
| a | Slope \* smoking | --- | --- | --- | 0.82 (2.71) .76 | 0.52 (3.15) .87 |
| a | Slope \* cardio | --- | --- | --- | 1.16 (5.28) .83 | 1.34 (6.50) .84 |
| a | Slope \* diabetes | --- | --- | --- | 0.42 (3.92) .91 | 0.85 (4.48) .85 |
| b | Level | 22.63 (0.52) <.01 | 23.32 (0.57) <.01 | 17.89 (2.76) <.01 | 18.29 (3.87) <.01 | 18.02 (4.76) <.01 |
| b | Slope | -0.65 (0.18) <.01 | -1.34 (0.25) <.01 | -0.74 (0.78) .34 | -0.69 (1.12) .54 | -0.55 (1.22) .65 |
| b | Level \* age | 0.00 (0.05) .92 | 0.00 (0.05) .95 | -0.08 (0.16) .63 | -0.06 (0.23) .79 | -0.06 (0.27) .83 |
| b | Level \* education | --- | -0.10 (0.03) <.01 | 0.66 (0.26) .01 | 0.67 (0.34) .05 | 0.67 (0.37) .07 |
| b | Level \* height | --- | --- | -0.05 (0.13) .71 | -0.04 (0.17) .82 | -0.06 (0.20) .76 |
| b | Level \* smoking | --- | --- | --- | -0.32 (1.62) .84 | -0.10 (1.93) .96 |
| b | Level \* cardio | --- | --- | --- | -1.21 (2.95) .68 | -1.35 (3.14) .67 |
| b | Level \* diabetes | --- | --- | --- | -1.41 (2.46) .57 | -1.66 (2.87) .56 |
| b | Slope \* age | 0.00 (0.02) .92 | 0.00 (0.02) .82 | 0.01 (0.05) .82 | 0.01 (0.06) .86 | 0.01 (0.06) .92 |
| b | Slope \* education | --- | 0.10 (0.03) <.01 | 0.05 (0.07) .53 | 0.04 (0.13) .74 | 0.04 (0.15) .79 |
| b | Slope \* height | --- | --- | 0.01 (0.04) .83 | 0.00 (0.05) .92 | 0.01 (0.07) .84 |
| b | Slope \* smoking | --- | --- | --- | 0.12 (0.56) .84 | 0.04 (0.62) .95 |
| b | Slope \* cardio | --- | --- | --- | -0.10 (0.73) .89 | -0.07 (0.75) .93 |
| b | Slope \* diabetes | --- | --- | --- | -0.09 (0.76) .91 | 0.01 (0.82) .99 |
| a | Var (Level) | 314.38 (55.96) <.01 | 306.55 (57.39) <.01 | 235.49 (109.20) .03 | 231.54 (138.47) .09 | 232.37 (162.41) .15 |
| a | Var (Slope) | 1.74 (1.47) .24 | 1.38 (1.44) .34 | 1.68 (4.61) .72 | 1.56 (5.74) .79 | 1.36 (7.17) .85 |
| a | Var (Residual) | 80.03 (7.08) <.01 | 80.74 (7.20) <.01 | 73.45 (17.05) <.01 | 73.80 (19.42) <.01 | 74.60 (20.77) <.01 |
| a | Covar (Level, Slope) | 8.24 (9.43) .38 | 9.87 (9.79) .31 | -4.59 (19.48) .81 | -5.83 (25.26) .82 | -7.29 (32.24) .82 |
| b | Var (Level) | 18.08 (2.40) <.01 | 19.18 (2.52) <.01 | 6.08 (4.05) .13 | 5.32 (4.52) .24 | 5.33 (5.43) .33 |
| b | Var (Slope) | 0.22 (0.09) .02 | 0.21 (0.08) .01 | 0.02 (0.27) .94 | 0.02 (0.33) .96 | 0.02 (0.32) .96 |
| b | Var (Residual) | 6.70 (0.28) <.01 | 6.81 (0.28) <.01 | 5.22 (0.68) <.01 | 5.22 (1.03) <.01 | 5.19 (1.13) <.01 |
| b | Covar (Level, Slope) | -0.17 (0.39) .67 | -0.82 (0.42) .05 | 0.17 (0.81) .83 | 0.16 (1.00) .88 | 0.15 (1.14) .89 |
| ab | Covar (Levels) | 11.89 (12.60) .34 | 9.02 (14.30) .53 | 17.16 (14.71) .24 | 15.52 (18.79) .41 | 16.55 (22.62) .46 |
| ab | Covar (Slopes) | 0.44 (0.44) .32 | 0.46 (0.44) .30 | -0.03 (0.74) .97 | -0.04 (1.26) .98 | -0.03 (1.58) .98 |
| ab | Covar (Residuals) | -3.06 (1.55) .05 | -3.08 (1.64) .06 | 0.38 (2.40) .88 | 0.44 (3.64) .90 | 0.52 (4.72) .91 |
|  | Correlation of Levels | 0.16 | 0.12 | 0.454 | 0.442 | 0.470 |
|  | Correlation of Slopes | 0.70 | 0.86 | -0.161 | -0.215 | -0.217 |
|  | Correlation of Residuals | -0.13 | -0.13 | 0.019 | 0.022 | 0.026 |
|  | N | 352 | 352 | 70 | 70 | 70 |
|  | occasions | 7 | 7 | 7 | 7 | 7 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -4,513 | -4,503 | -1,401 | -1,397 | -1,396 |
|  | AIC | 9,067 | 9,055 | 2,860 | 2,876 | 2,882 |
|  | BIC | 9,148 | 9,152 | 2,925 | 2,969 | 2,983 |

## logic\_tot

Gender = *male*; Process (a) = *gait*; Process (b) = *logic\_tot*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 109.18 (3.38) <.01 | 105.83 (5.82) <.01 | 102.84 (10.12) <.01 | 106.52 (13.09) <.01 | 107.93 (16.43) <.01 |
| a | Slope | -2.20 (0.73) <.01 | -1.27 (1.25) .31 | -0.50 (3.07) .87 | -1.98 (4.91) .69 | -1.72 (6.01) .78 |
| a | Level \* age | -1.06 (0.37) <.01 | -1.06 (0.37) <.01 | -0.43 (0.49) .37 | -0.43 (0.57) .45 | -0.46 (0.65) .48 |
| a | Level \* education | --- | 0.48 (0.62) .44 | 0.65 (0.72) .37 | 0.64 (0.88) .47 | 0.68 (0.94) .47 |
| a | Level \* height | --- | --- | 0.09 (0.35) .80 | 0.04 (0.39) .92 | -0.01 (0.45) .97 |
| a | Level \* smoking | --- | --- | --- | -1.13 (8.30) .89 | -1.40 (8.91) .88 |
| a | Level \* cardio | --- | --- | --- | -4.29 (11.54) .71 | -4.18 (13.22) .75 |
| a | Level \* diabetes | --- | --- | --- | -4.97 (9.20) .59 | -4.99 (9.93) .61 |
| a | Slope \* age | -0.11 (0.08) .19 | -0.11 (0.08) .19 | -0.13 (0.15) .38 | -0.11 (0.22) .61 | -0.12 (0.27) .67 |
| a | Slope \* education | --- | -0.14 (0.14) .34 | -0.26 (0.17) .13 | -0.26 (0.25) .31 | -0.28 (0.31) .36 |
| a | Slope \* height | --- | --- | 0.02 (0.11) .88 | 0.05 (0.14) .70 | 0.09 (0.18) .61 |
| a | Slope \* smoking | --- | --- | --- | 0.70 (2.58) .79 | 0.47 (3.09) .88 |
| a | Slope \* cardio | --- | --- | --- | 1.29 (2.87) .65 | 1.47 (3.39) .66 |
| a | Slope \* diabetes | --- | --- | --- | 0.17 (3.08) .95 | 0.57 (3.71) .88 |
| b | Level | 20.81 (0.78) <.01 | 20.36 (0.82) <.01 | 15.12 (3.55) <.01 | 14.65 (5.22) <.01 | 14.14 (5.29) .01 |
| b | Slope | 0.62 (0.24) .01 | 1.07 (0.31) <.01 | 1.77 (0.84) .04 | 1.79 (1.07) .10 | 1.81 (1.15) .11 |
| b | Level \* age | -0.12 (0.08) .13 | -0.12 (0.08) .12 | -0.11 (0.20) .59 | -0.12 (0.25) .65 | -0.11 (0.28) .70 |
| b | Level \* education | --- | 0.07 (0.03) .04 | 0.84 (0.26) <.01 | 0.86 (0.34) .01 | 0.87 (0.34) .01 |
| b | Level \* height | --- | --- | 0.10 (0.12) .41 | 0.09 (0.16) .59 | 0.09 (0.17) .60 |
| b | Level \* smoking | --- | --- | --- | -0.05 (3.23) .99 | 0.15 (3.15) .96 |
| b | Level \* cardio | --- | --- | --- | 1.43 (2.67) .59 | 1.26 (2.99) .67 |
| b | Level \* diabetes | --- | --- | --- | 1.47 (2.28) .52 | 1.28 (2.69) .64 |
| b | Slope \* age | -0.08 (0.02) <.01 | -0.08 (0.02) <.01 | -0.08 (0.05) .10 | -0.08 (0.06) .22 | -0.08 (0.07) .24 |
| b | Slope \* education | --- | -0.07 (0.03) .02 | -0.12 (0.06) .04 | -0.13 (0.08) .08 | -0.13 (0.08) .11 |
| b | Slope \* height | --- | --- | -0.02 (0.03) .56 | -0.02 (0.04) .62 | -0.02 (0.04) .69 |
| b | Slope \* smoking | --- | --- | --- | -0.08 (0.59) .89 | -0.09 (0.62) .88 |
| b | Slope \* cardio | --- | --- | --- | -0.61 (0.80) .44 | -0.60 (0.96) .53 |
| b | Slope \* diabetes | --- | --- | --- | 0.56 (0.62) .37 | 0.57 (0.68) .40 |
| a | Var (Level) | 325.84 (60.68) <.01 | 316.82 (61.41) <.01 | 217.72 (85.76) .01 | 216.72 (136.28) .11 | 217.58 (146.35) .14 |
| a | Var (Slope) | 1.97 (1.46) .18 | 1.55 (1.37) .26 | 1.73 (5.26) .74 | 1.58 (5.86) .79 | 1.33 (7.04) .85 |
| a | Var (Residual) | 80.09 (7.27) <.01 | 80.78 (7.40) <.01 | 73.64 (13.71) <.01 | 73.31 (15.42) <.01 | 74.02 (24.27) <.01 |
| a | Covar (Level, Slope) | 6.32 (10.65) .55 | 8.33 (10.56) .43 | -0.52 (18.26) .98 | -2.36 (23.45) .92 | -3.66 (25.45) .89 |
| b | Var (Level) | 37.16 (4.85) <.01 | 35.68 (4.76) <.01 | 26.50 (9.86) .01 | 25.59 (13.53) .06 | 25.43 (13.30) .06 |
| b | Var (Slope) | 0.38 (0.17) .03 | 0.27 (0.17) .11 | 0.17 (0.32) .60 | 0.10 (0.42) .80 | 0.10 (0.42) .81 |
| b | Var (Residual) | 14.56 (0.86) <.01 | 14.57 (0.87) <.01 | 14.66 (2.09) <.01 | 14.46 (2.55) <.01 | 14.47 (2.83) <.01 |
| b | Covar (Level, Slope) | -1.09 (0.99) .27 | -0.37 (0.99) .71 | -0.52 (1.45) .72 | -0.43 (2.14) .84 | -0.41 (2.07) .84 |
| ab | Covar (Levels) | 27.70 (15.75) .08 | 22.03 (16.43) .18 | 14.39 (23.05) .53 | 13.02 (27.88) .64 | 12.59 (30.73) .68 |
| ab | Covar (Slopes) | 0.00 (0.50) .99 | -0.16 (0.46) .72 | 0.11 (0.68) .87 | 0.25 (1.02) .80 | 0.22 (1.14) .85 |
| ab | Covar (Residuals) | -0.82 (2.58) .75 | -0.59 (2.67) .82 | -0.55 (4.41) .90 | -0.80 (6.03) .89 | -0.89 (7.99) .91 |
|  | Correlation of Levels | 0.2518 | 0.207 | 0.189 | 0.175 | 0.169 |
|  | Correlation of Slopes | 0.0035 | -0.250 | 0.199 | 0.624 | 0.603 |
|  | Correlation of Residuals | -0.0240 | -0.017 | -0.017 | -0.025 | -0.027 |
|  | N | 350 | 350 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -5,116 | -5,112 | -1,854 | -1,847 | -1,846 |
|  | AIC | 10,274 | 10,275 | 3,765 | 3,775 | 3,782 |
|  | BIC | 10,355 | 10,371 | 3,831 | 3,869 | 3,884 |

## mmse

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 107.70 (3.41) <.01 | 107.67 (5.57) <.01 | 101.63 (11.25) <.01 | 105.72 (12.96) <.01 | 107.27 (14.30) <.01 |
| a | Slope | -2.27 (0.73) <.01 | -2.22 (1.14) .05 | 0.06 (2.91) .98 | -1.64 (5.96) .78 | -1.37 (7.00) .84 |
| a | Level \* age | -1.05 (0.37) <.01 | -1.05 (0.38) <.01 | -0.43 (0.48) .37 | -0.46 (0.56) .41 | -0.48 (0.56) .39 |
| a | Level \* education | --- | 0.01 (0.61) .99 | 0.70 (0.83) .40 | 0.67 (0.95) .48 | 0.70 (1.00) .48 |
| a | Level \* height | --- | --- | 0.13 (0.42) .75 | 0.09 (0.45) .84 | -0.02 (0.49) .97 |
| a | Level \* smoking | --- | --- | --- | -1.54 (6.50) .81 | -1.24 (7.55) .87 |
| a | Level \* cardio | --- | --- | --- | -4.14 (10.80) .70 | -4.62 (15.53) .77 |
| a | Level \* diabetes | --- | --- | --- | -4.76 (8.32) .57 | -5.41 (9.03) .55 |
| a | Slope \* age | -0.12 (0.09) .18 | -0.12 (0.09) .18 | -0.14 (0.16) .36 | -0.11 (0.19) .57 | -0.11 (0.22) .62 |
| a | Slope \* education | --- | -0.01 (0.15) .97 | -0.27 (0.19) .15 | -0.27 (0.31) .39 | -0.29 (0.37) .43 |
| a | Slope \* height | --- | --- | -0.00 (0.13) .98 | 0.03 (0.20) .89 | 0.10 (0.21) .65 |
| a | Slope \* smoking | --- | --- | --- | 0.93 (2.40) .70 | 0.37 (3.12) .91 |
| a | Slope \* cardio | --- | --- | --- | 1.28 (3.71) .73 | 1.73 (4.58) .71 |
| a | Slope \* diabetes | --- | --- | --- | 0.16 (3.17) .96 | 0.82 (3.58) .82 |
| b | Level | 26.19 (0.19) <.01 | 26.22 (0.19) <.01 | 26.45 (0.64) <.01 | 26.68 (0.88) <.01 | 26.90 (1.11) <.01 |
| b | Slope | 0.09 (0.05) .06 | 0.10 (0.06) .12 | 0.01 (0.21) .97 | -0.06 (0.29) .84 | -0.05 (0.34) .89 |
| b | Level \* age | -0.00 (0.02) .96 | -0.00 (0.02) .94 | 0.00 (0.04) .93 | -0.00 (0.04) .98 | -0.00 (0.04) .92 |
| b | Level \* education | --- | -0.00 (0.01) .72 | 0.06 (0.05) .19 | 0.06 (0.06) .32 | 0.06 (0.06) .31 |
| b | Level \* height | --- | --- | 0.00 (0.03) .94 | 0.00 (0.04) .95 | 0.00 (0.04) .99 |
| b | Level \* smoking | --- | --- | --- | -0.22 (0.41) .59 | -0.30 (0.44) .49 |
| b | Level \* cardio | --- | --- | --- | 0.06 (0.63) .92 | 0.14 (0.66) .84 |
| b | Level \* diabetes | --- | --- | --- | -0.09 (0.46) .84 | -0.02 (0.46) .96 |
| b | Slope \* age | -0.01 (0.00) .01 | -0.01 (0.00) .01 | -0.00 (0.01) .73 | -0.00 (0.01) .84 | -0.00 (0.02) .85 |
| b | Slope \* education | --- | 0.00 (0.00) .95 | 0.00 (0.01) .88 | 0.00 (0.02) .87 | 0.00 (0.02) .91 |
| b | Slope \* height | --- | --- | -0.00 (0.01) .89 | -0.00 (0.01) .93 | 0.00 (0.02) .99 |
| b | Slope \* smoking | --- | --- | --- | 0.06 (0.12) .61 | 0.06 (0.14) .68 |
| b | Slope \* cardio | --- | --- | --- | -0.03 (0.33) .93 | -0.03 (0.31) .92 |
| b | Slope \* diabetes | --- | --- | --- | 0.03 (0.14) .84 | 0.04 (0.15) .80 |
| a | Var (Level) | 346.18 (71.14) <.01 | 344.95 (75.81) <.01 | 216.47 (89.94) .02 | 214.38 (115.83) .06 | 214.50 (129.55) .10 |
| a | Var (Slope) | 2.20 (1.37) .11 | 2.14 (1.43) .14 | 1.76 (3.77) .64 | 1.22 (5.63) .83 | 0.78 (5.83) .89 |
| a | Var (Residual) | 79.59 (7.08) <.01 | 79.70 (7.19) <.01 | 73.08 (15.30) <.01 | 73.97 (20.68) <.01 | 75.51 (24.81) <.01 |
| a | Covar (Level, Slope) | 6.45 (11.63) .58 | 6.62 (12.38) .59 | 0.74 (17.23) .97 | -0.79 (19.94) .97 | -2.20 (20.57) .92 |
| b | Var (Level) | 1.79 (0.22) <.01 | 1.76 (0.22) <.01 | 0.30 (0.26) .26 | 0.30 (0.30) .31 | 0.27 (0.36) .46 |
| b | Var (Slope) | 0.00 (0.01) .51 | 0.00 (0.01) .57 | 0.01 (0.02) .72 | 0.01 (0.02) .75 | 0.01 (0.02) .76 |
| b | Var (Residual) | 0.98 (0.04) <.01 | 0.98 (0.04) <.01 | 0.67 (0.07) <.01 | 0.67 (0.08) <.01 | 0.66 (0.08) <.01 |
| b | Covar (Level, Slope) | -0.01 (0.04) .77 | -0.01 (0.04) .85 | 0.04 (0.07) .57 | 0.04 (0.07) .58 | 0.04 (0.07) .60 |
| ab | Covar (Levels) | 10.51 (5.53) .06 | 10.38 (5.74) .07 | 2.34 (3.90) .55 | 2.13 (5.14) .68 | 1.71 (5.92) .77 |
| ab | Covar (Slopes) | -0.00 (0.12) .98 | -0.00 (0.12) .99 | 0.01 (0.18) .95 | 0.01 (0.25) .96 | 0.03 (0.30) .93 |
| ab | Covar (Residuals) | 0.08 (0.69) .91 | 0.07 (0.69) .92 | 0.21 (1.05) .84 | 0.22 (1.16) .85 | 0.24 (1.42) .86 |
|  | Correlation of Levels | 0.4217 | 0.4212 | 0.29 | 0.265 | 0.224 |
|  | Correlation of Slopes | -0.0213 | -0.0250 | 0.11 | 0.140 | 0.410 |
|  | Correlation of Residuals | 0.0089 | 0.0084 | 0.03 | 0.032 | 0.034 |
|  | N | 383 | 383 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -3,874 | -3,872 | -1,317 | -1,314 | -1,312 |
|  | AIC | 7,790 | 7,793 | 2,691 | 2,710 | 2,713 |
|  | BIC | 7,872 | 7,892 | 2,757 | 2,803 | 2,816 |

## symbol

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 106.89 (3.20) <.01 | 108.32 (5.40) <.01 | 102.19 (10.52) <.01 | 106.26 (13.36) <.01 | 108.10 (22.36) <.01 |
| a | Slope | -2.11 (0.72) <.01 | -1.26 (1.22) .30 | -0.15 (3.15) .96 | -1.81 (4.79) .71 | -1.74 (8.13) .83 |
| a | Level \* age | -1.02 (0.35) <.01 | -1.03 (0.35) <.01 | -0.42 (0.54) .43 | -0.45 (0.61) .46 | -0.48 (0.88) .58 |
| a | Level \* education | --- | -0.21 (0.61) .73 | 0.64 (0.81) .43 | 0.62 (0.95) .52 | 0.68 (1.19) .57 |
| a | Level \* height | --- | --- | 0.10 (0.38) .80 | 0.05 (0.47) .92 | -0.09 (0.48) .85 |
| a | Level \* smoking | --- | --- | --- | -1.72 (7.66) .82 | -1.61 (10.57) .88 |
| a | Level \* cardio | --- | --- | --- | -3.94 (12.01) .74 | -4.37 (13.74) .75 |
| a | Level \* diabetes | --- | --- | --- | -4.50 (9.49) .64 | -5.31 (9.88) .59 |
| a | Slope \* age | -0.12 (0.08) .16 | -0.12 (0.08) .14 | -0.15 (0.18) .40 | -0.12 (0.20) .55 | -0.11 (0.30) .72 |
| a | Slope \* education | --- | -0.12 (0.14) .40 | -0.23 (0.19) .22 | -0.23 (0.25) .35 | -0.27 (0.34) .43 |
| a | Slope \* height | --- | --- | 0.01 (0.11) .90 | 0.05 (0.16) .77 | 0.14 (0.16) .41 |
| a | Slope \* smoking | --- | --- | --- | 0.99 (2.09) .64 | 0.52 (2.82) .85 |
| a | Slope \* cardio | --- | --- | --- | 1.10 (3.31) .74 | 1.47 (3.64) .69 |
| a | Slope \* diabetes | --- | --- | --- | 0.04 (2.85) .99 | 0.84 (2.70) .76 |
| b | Level | 39.39 (1.32) <.01 | 38.97 (1.43) <.01 | 37.41 (6.23) <.01 | 39.14 (11.01) <.01 | 38.74 (14.00) .01 |
| b | Slope | 0.52 (0.36) .14 | 1.01 (0.59) .09 | 0.87 (2.12) .68 | 0.66 (2.43) .79 | 0.64 (2.93) .82 |
| b | Level \* age | -0.29 (0.14) .04 | -0.29 (0.14) .04 | -0.14 (0.32) .66 | -0.12 (0.37) .74 | -0.12 (0.43) .78 |
| b | Level \* education | --- | 0.06 (0.07) .37 | 1.33 (0.61) .03 | 1.30 (0.79) .10 | 1.29 (0.97) .18 |
| b | Level \* height | --- | --- | 0.12 (0.31) .70 | 0.12 (0.34) .73 | 0.13 (0.35) .72 |
| b | Level \* smoking | --- | --- | --- | 0.41 (5.02) .93 | 0.53 (6.25) .93 |
| b | Level \* cardio | --- | --- | --- | -4.75 (6.17) .44 | -4.88 (6.80) .47 |
| b | Level \* diabetes | --- | --- | --- | -4.60 (4.76) .33 | -4.68 (5.00) .35 |
| b | Slope \* age | -0.06 (0.04) .10 | -0.06 (0.04) .08 | -0.04 (0.10) .66 | -0.04 (0.12) .71 | -0.04 (0.14) .76 |
| b | Slope \* education | --- | -0.07 (0.07) .29 | -0.17 (0.16) .31 | -0.16 (0.17) .34 | -0.16 (0.19) .41 |
| b | Slope \* height | --- | --- | -0.00 (0.07) .96 | 0.00 (0.09) .99 | -0.00 (0.09) .96 |
| b | Slope \* smoking | --- | --- | --- | -0.13 (0.96) .89 | -0.11 (1.23) .93 |
| b | Slope \* cardio | --- | --- | --- | 0.56 (1.61) .73 | 0.56 (1.66) .74 |
| b | Slope \* diabetes | --- | --- | --- | 0.40 (0.99) .69 | 0.36 (1.04) .73 |
| a | Var (Level) | 337.62 (62.10) <.01 | 340.56 (64.36) <.01 | 220.38 (103.56) .03 | 218.55 (138.34) .11 | 223.93 (139.75) .11 |
| a | Var (Slope) | 2.02 (1.44) .16 | 1.64 (1.43) .25 | 2.52 (4.61) .58 | 2.02 (5.21) .70 | 2.10 (5.57) .71 |
| a | Var (Residual) | 79.70 (7.10) <.01 | 80.32 (7.32) <.01 | 71.86 (14.89) <.01 | 72.69 (17.02) <.01 | 73.44 (24.11) <.01 |
| a | Covar (Level, Slope) | 5.89 (10.29) .57 | 7.43 (10.47) .48 | -0.05 (18.58) .99 | -1.69 (24.33) .94 | -4.76 (26.20) .86 |
| b | Var (Level) | 154.15 (16.56) <.01 | 151.78 (16.65) <.01 | 78.73 (31.35) .01 | 70.69 (42.42) .10 | 71.17 (43.19) .10 |
| b | Var (Slope) | 1.49 (0.38) <.01 | 1.30 (0.36) <.01 | 1.25 (0.65) .06 | 1.12 (0.83) .18 | 1.15 (0.98) .24 |
| b | Var (Residual) | 28.85 (1.38) <.01 | 28.95 (1.39) <.01 | 25.48 (2.45) <.01 | 25.56 (3.48) <.01 | 25.51 (4.78) <.01 |
| b | Covar (Level, Slope) | -3.04 (2.47) .22 | -1.71 (2.77) .54 | -0.29 (3.73) .94 | 0.65 (6.95) .92 | 0.50 (7.36) .95 |
| ab | Covar (Levels) | 107.00 (25.80) <.01 | 111.47 (29.58) <.01 | 10.45 (35.04) .77 | 1.16 (35.86) .97 | -4.18 (43.30) .92 |
| ab | Covar (Slopes) | 0.56 (0.79) .48 | 0.34 (0.79) .67 | 1.49 (1.62) .36 | 1.24 (1.96) .53 | 1.14 (2.46) .64 |
| ab | Covar (Residuals) | 1.94 (2.77) .48 | 2.07 (2.94) .48 | -2.39 (7.18) .74 | -1.99 (9.36) .83 | -1.34 (10.16) .90 |
|  | Correlation of Levels | 0.47 | 0.490 | 0.079 | 0.0093 | -0.033 |
|  | Correlation of Slopes | 0.32 | 0.231 | 0.843 | 0.8235 | 0.733 |
|  | Correlation of Residuals | 0.04 | 0.043 | -0.056 | -0.0461 | -0.031 |
|  | N | 377 | 377 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -5,882 | -5,880 | -1,978 | -1,974 | -1,972 |
|  | AIC | 11,806 | 11,810 | 4,014 | 4,029 | 4,034 |
|  | BIC | 11,888 | 11,908 | 4,080 | 4,123 | 4,136 |

## trailsb

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 107.45 (3.34) <.01 | 107.57 (5.74) <.01 | 102.33 (10.98) <.01 | 106.98 (17.01) <.01 | 108.44 (18.76) <.01 |
| a | Slope | -2.05 (0.83) .01 | -2.04 (1.27) .11 | 0.03 (3.25) .99 | -2.18 (5.62) .70 | -1.93 (5.59) .73 |
| a | Level \* age | -0.93 (0.35) .01 | -0.92 (0.36) .01 | -0.41 (0.52) .43 | -0.44 (0.64) .49 | -0.47 (0.74) .52 |
| a | Level \* education | --- | -0.02 (0.62) .98 | 0.65 (0.73) .38 | 0.64 (1.31) .62 | 0.71 (1.30) .59 |
| a | Level \* height | --- | --- | 0.10 (0.42) .80 | 0.04 (0.60) .94 | -0.05 (0.62) .94 |
| a | Level \* smoking | --- | --- | --- | -2.60 (10.83) .81 | -2.54 (11.81) .83 |
| a | Level \* cardio | --- | --- | --- | -3.59 (13.21) .79 | -3.86 (14.41) .79 |
| a | Level \* diabetes | --- | --- | --- | -4.75 (9.17) .60 | -5.16 (9.65) .59 |
| a | Slope \* age | -0.11 (0.09) .22 | -0.11 (0.09) .24 | -0.16 (0.17) .33 | -0.12 (0.22) .59 | -0.12 (0.26) .66 |
| a | Slope \* education | --- | 0.00 (0.14) .99 | -0.26 (0.19) .16 | -0.27 (0.34) .42 | -0.31 (0.34) .37 |
| a | Slope \* height | --- | --- | 0.00 (0.13) .97 | 0.05 (0.20) .81 | 0.11 (0.18) .54 |
| a | Slope \* smoking | --- | --- | --- | 1.66 (2.98) .58 | 1.24 (2.87) .67 |
| a | Slope \* cardio | --- | --- | --- | 0.94 (4.13) .82 | 1.27 (4.14) .76 |
| a | Slope \* diabetes | --- | --- | --- | 0.13 (3.82) .97 | 0.71 (3.62) .84 |
| b | Level | 132.39 (9.27) <.01 | 131.37 (9.60) <.01 | 169.30 (31.73) <.01 | 163.37 (43.63) <.01 | 167.62 (52.37) <.01 |
| b | Slope | 1.79 (2.07) .39 | 1.85 (3.17) .56 | -6.16 (8.66) .48 | -2.91 (10.20) .78 | -2.39 (11.58) .84 |
| b | Level \* age | 1.98 (0.81) .01 | 1.98 (0.81) .01 | 0.77 (1.92) .69 | 0.76 (2.70) .78 | 0.78 (2.92) .79 |
| b | Level \* education | --- | 0.12 (0.36) .75 | -6.24 (3.41) .07 | -6.06 (4.23) .15 | -6.02 (4.48) .18 |
| b | Level \* height | --- | --- | -0.73 (1.39) .60 | -0.69 (1.86) .71 | -0.86 (1.98) .66 |
| b | Level \* smoking | --- | --- | --- | -0.85 (36.70) .98 | -2.04 (38.09) .96 |
| b | Level \* cardio | --- | --- | --- | 19.32 (34.02) .57 | 20.81 (35.95) .56 |
| b | Level \* diabetes | --- | --- | --- | 6.71 (22.98) .77 | 7.01 (28.04) .80 |
| b | Slope \* age | 0.10 (0.20) .61 | 0.10 (0.20) .61 | 0.35 (0.45) .43 | 0.31 (0.63) .62 | 0.27 (0.62) .66 |
| b | Slope \* education | --- | -0.00 (0.33) .99 | 0.15 (0.77) .84 | 0.04 (1.00) .97 | 0.01 (0.98) .99 |
| b | Slope \* height | --- | --- | 0.48 (0.36) .18 | 0.45 (0.50) .37 | 0.56 (0.54) .30 |
| b | Slope \* smoking | --- | --- | --- | -1.75 (9.20) .85 | -2.08 (9.28) .82 |
| b | Slope \* cardio | --- | --- | --- | -7.20 (14.02) .61 | -7.24 (14.08) .61 |
| b | Slope \* diabetes | --- | --- | --- | 2.08 (8.49) .81 | 2.88 (9.62) .76 |
| a | Var (Level) | 329.88 (62.73) <.01 | 338.17 (67.29) <.01 | 231.01 (100.41) .02 | 226.86 (129.33) .08 | 226.47 (137.78) .10 |
| a | Var (Slope) | 1.97 (1.55) .20 | 2.61 (1.86) .16 | 2.31 (4.38) .60 | 2.23 (4.95) .65 | 1.86 (7.07) .79 |
| a | Var (Residual) | 81.06 (7.17) <.01 | 79.47 (7.16) <.01 | 71.40 (12.88) <.01 | 71.78 (14.37) <.01 | 72.67 (16.99) <.01 |
| a | Covar (Level, Slope) | 5.14 (10.82) .64 | 2.62 (11.99) .83 | -3.61 (18.60) .85 | -5.45 (25.08) .83 | -6.45 (31.15) .84 |
| b | Var (Level) | 3897.25 (603.04) <.01 | 3873.28 (614.32) <.01 | 1638.00 (744.22) .03 | 1607.71 (1117.90) .15 | 1638.08 (1127.68) .15 |
| b | Var (Slope) | 40.08 (14.72) .01 | 40.67 (15.73) .01 | 39.93 (35.34) .26 | 28.55 (55.08) .60 | 30.53 (63.06) .63 |
| b | Var (Residual) | 1535.16 (54.13) <.01 | 1532.30 (54.76) <.01 | 1608.35 (157.65) <.01 | 1595.86 (194.81) <.01 | 1597.65 (214.79) <.01 |
| b | Covar (Level, Slope) | -110.92 (80.37) .17 | -110.87 (96.73) .25 | -99.32 (173.85) .57 | -86.01 (259.14) .74 | -98.37 (273.88) .72 |
| ab | Covar (Levels) | -423.02 (183.85) .02 | -411.66 (202.30) .04 | -10.93 (225.49) .96 | -9.08 (280.36) .97 | 19.15 (283.90) .95 |
| ab | Covar (Slopes) | -5.96 (5.11) .24 | -5.41 (5.56) .33 | -6.86 (8.75) .43 | -5.16 (15.37) .74 | -3.35 (16.56) .84 |
| ab | Covar (Residuals) | 46.56 (24.18) .05 | 45.02 (24.64) .07 | 6.53 (37.26) .86 | 9.99 (48.12) .84 | 7.41 (56.76) .90 |
|  | Correlation of Levels | -0.37 | -0.36 | -0.018 | -0.015 | 0.031 |
|  | Correlation of Slopes | -0.67 | -0.52 | -0.715 | -0.646 | -0.444 |
|  | Correlation of Residuals | 0.13 | 0.13 | 0.019 | 0.030 | 0.022 |
|  | N | 368 | 368 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -7,815 | -7,814 | -2,664 | -2,660 | -2,657 |
|  | AIC | 15,673 | 15,678 | 5,386 | 5,402 | 5,405 |
|  | BIC | 15,755 | 15,776 | 5,452 | 5,495 | 5,507 |

## waisvocab

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| process | label | a | ae | aeh | aehplus | full |
| a | Level | 108.71 (3.47) <.01 | 105.96 (5.83) <.01 | 102.44 (10.37) <.01 | 106.42 (15.37) <.01 | 107.24 (18.87) <.01 |
| a | Slope | -2.25 (0.81) .01 | -1.57 (1.21) .20 | -0.29 (3.45) .93 | -1.97 (5.80) .73 | -1.44 (6.09) .81 |
| a | Level \* age | -0.94 (0.37) .01 | -0.94 (0.37) .01 | -0.46 (0.50) .36 | -0.47 (0.68) .49 | -0.47 (0.74) .52 |
| a | Level \* education | --- | 0.40 (0.66) .55 | 0.69 (0.75) .36 | 0.69 (1.13) .54 | 0.74 (1.19) .53 |
| a | Level \* height | --- | --- | 0.09 (0.40) .81 | 0.05 (0.47) .92 | -0.03 (0.49) .95 |
| a | Level \* smoking | --- | --- | --- | -1.64 (7.15) .82 | -1.49 (7.95) .85 |
| a | Level \* cardio | --- | --- | --- | -4.41 (11.98) .71 | -4.44 (14.04) .75 |
| a | Level \* diabetes | --- | --- | --- | -5.41 (12.99) .68 | -5.70 (14.59) .70 |
| a | Slope \* age | -0.10 (0.10) .32 | -0.10 (0.09) .30 | -0.12 (0.18) .49 | -0.10 (0.31) .75 | -0.11 (0.32) .73 |
| a | Slope \* education | --- | -0.10 (0.14) .49 | -0.27 (0.21) .19 | -0.27 (0.35) .43 | -0.31 (0.36) .40 |
| a | Slope \* height | --- | --- | 0.01 (0.14) .95 | 0.04 (0.18) .81 | 0.09 (0.18) .60 |
| a | Slope \* smoking | --- | --- | --- | 1.09 (2.94) .71 | 0.68 (2.98) .82 |
| a | Slope \* cardio | --- | --- | --- | 1.35 (4.45) .76 | 1.54 (5.17) .77 |
| a | Slope \* diabetes | --- | --- | --- | 0.34 (5.01) .95 | 0.83 (5.09) .87 |
| b | Level | 43.98 (1.34) <.01 | 44.34 (1.40) <.01 | 32.10 (4.62) <.01 | 33.97 (6.68) <.01 | 34.38 (7.59) <.01 |
| b | Slope | -0.36 (0.30) .22 | -0.73 (0.46) .11 | 1.55 (1.29) .23 | 1.61 (2.17) .46 | 1.28 (2.22) .56 |
| b | Level \* age | 0.42 (0.14) <.01 | 0.42 (0.14) <.01 | 0.41 (0.29) .15 | 0.39 (0.35) .27 | 0.37 (0.37) .31 |
| b | Level \* education | --- | -0.05 (0.06) .39 | 1.60 (0.49) <.01 | 1.54 (0.62) .01 | 1.51 (0.66) .02 |
| b | Level \* height | --- | --- | 0.03 (0.24) .89 | 0.03 (0.25) .92 | 0.07 (0.27) .80 |
| b | Level \* smoking | --- | --- | --- | -1.53 (3.78) .68 | -1.83 (4.12) .66 |
| b | Level \* cardio | --- | --- | --- | -3.73 (6.34) .56 | -3.71 (7.78) .63 |
| b | Level \* diabetes | --- | --- | --- | 1.28 (4.18) .76 | 1.64 (4.63) .72 |
| b | Slope \* age | -0.06 (0.03) .07 | -0.06 (0.03) .07 | -0.10 (0.07) .15 | -0.09 (0.10) .33 | -0.08 (0.11) .47 |
| b | Slope \* education | --- | 0.05 (0.06) .34 | -0.06 (0.14) .66 | -0.06 (0.21) .76 | -0.05 (0.21) .81 |
| b | Slope \* height | --- | --- | -0.02 (0.06) .70 | -0.02 (0.07) .74 | -0.05 (0.08) .56 |
| b | Slope \* smoking | --- | --- | --- | 0.09 (0.83) .91 | 0.26 (0.83) .76 |
| b | Slope \* cardio | --- | --- | --- | -0.14 (1.37) .92 | -0.16 (1.75) .92 |
| b | Slope \* diabetes | --- | --- | --- | -0.42 (1.09) .69 | -0.64 (1.49) .67 |
| a | Var (Level) | 335.85 (61.16) <.01 | 326.88 (60.64) <.01 | 220.75 (89.67) .01 | 220.64 (122.80) .07 | 223.48 (159.98) .16 |
| a | Var (Slope) | 2.37 (1.48) .11 | 1.97 (1.42) .17 | 1.87 (4.96) .71 | 1.69 (5.95) .78 | 1.45 (6.75) .83 |
| a | Var (Residual) | 79.02 (7.21) <.01 | 79.68 (7.35) <.01 | 72.88 (14.53) <.01 | 72.87 (15.52) <.01 | 73.68 (17.01) <.01 |
| a | Covar (Level, Slope) | 3.61 (10.86) .74 | 5.53 (10.82) .61 | -0.90 (18.27) .96 | -3.31 (26.61) .90 | -5.31 (32.84) .87 |
| b | Var (Level) | 142.49 (17.02) <.01 | 144.23 (17.50) <.01 | 45.78 (20.95) .03 | 43.80 (27.17) .11 | 45.17 (30.43) .14 |
| b | Var (Slope) | 0.59 (0.41) .15 | 0.54 (0.38) .15 | 0.31 (0.87) .72 | 0.33 (1.46) .82 | 0.40 (1.44) .78 |
| b | Var (Residual) | 49.58 (2.33) <.01 | 49.74 (2.36) <.01 | 40.64 (4.19) <.01 | 40.53 (5.45) <.01 | 40.41 (5.64) <.01 |
| b | Covar (Level, Slope) | -2.47 (2.42) .31 | -3.43 (2.69) .20 | -0.59 (3.89) .88 | -0.92 (5.99) .88 | -1.31 (6.34) .84 |
| ab | Covar (Levels) | 26.02 (29.51) .38 | 16.83 (31.56) .59 | -7.21 (26.00) .78 | -11.00 (37.25) .77 | -14.21 (42.67) .74 |
| ab | Covar (Slopes) | -0.24 (0.62) .70 | -0.32 (0.58) .59 | -0.29 (1.63) .86 | -0.46 (2.15) .83 | -0.45 (2.26) .84 |
| ab | Covar (Residuals) | -3.21 (5.13) .53 | -2.97 (5.31) .58 | -3.24 (9.12) .72 | -3.34 (12.05) .78 | -3.38 (12.35) .78 |
|  | Correlation of Levels | 0.119 | 0.078 | -0.072 | -0.112 | -0.141 |
|  | Correlation of Slopes | -0.205 | -0.307 | -0.383 | -0.610 | -0.596 |
|  | Correlation of Residuals | -0.051 | -0.047 | -0.060 | -0.061 | -0.062 |
|  | N | 377 | 377 | 72 | 72 | 72 |
|  | occasions | 8 | 8 | 8 | 8 | 8 |
|  | parameters | 21 | 25 | 29 | 41 | 45 |
|  | LL | -6,079 | -6,075 | -2,013 | -2,008 | -2,007 |
|  | AIC | 12,200 | 12,199 | 4,084 | 4,099 | 4,103 |
|  | BIC | 12,282 | 12,297 | 4,150 | 4,192 | 4,206 |

## Summary

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

Computed correlations:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Levels | block | 0.40 | 0.40 | 0.28 | 0.29 | 0.25 |
| Correlation of Levels | bnt | 0.20 | 0.20 | 0.22 | 0.18 | 0.19 |
| Correlation of Levels | categories | 0.27 | 0.25 | 0.22 | 0.24 | 0.20 |
| Correlation of Levels | digit\_tot | 0.30 | 0.28 | 0.11 | 0.06 | 0.02 |
| Correlation of Levels | fas | 0.30 | 0.29 | -0.04 | -0.05 | -0.10 |
| Correlation of Levels | information | 0.16 | 0.12 | 0.45 | 0.44 | 0.47 |
| Correlation of Levels | logic\_tot | 0.25 | 0.21 | 0.19 | 0.17 | 0.17 |
| Correlation of Levels | mmse | 0.42 | 0.42 | 0.29 | 0.27 | 0.22 |
| Correlation of Levels | symbol | 0.47 | 0.49 | 0.08 | 0.01 | -0.03 |
| Correlation of Levels | trailsb | -0.37 | -0.36 | -0.02 | -0.02 | 0.03 |
| Correlation of Levels | waisvocab | 0.12 | 0.08 | -0.07 | -0.11 | -0.14 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Slopes | block | 0.39 | 0.40 | 0.22 | 0.15 | 0.17 |
| Correlation of Slopes | bnt | 0.38 | 0.38 | 0.33 | 0.27 | 0.36 |
| Correlation of Slopes | categories | 0.45 | 0.33 | 0.60 | 0.92 | 0.72 |
| Correlation of Slopes | digit\_tot | 0.18 | 0.08 | 0.79 | 0.72 | 0.68 |
| Correlation of Slopes | fas | 0.78 | 0.74 | 0.34 | 0.68 | 0.66 |
| Correlation of Slopes | information | 0.70 | 0.86 | -0.16 | -0.21 | -0.22 |
| Correlation of Slopes | logic\_tot | 0.00 | -0.25 | 0.20 | 0.62 | 0.60 |
| Correlation of Slopes | mmse | -0.02 | -0.02 | 0.11 | 0.14 | 0.41 |
| Correlation of Slopes | symbol | 0.32 | 0.23 | 0.84 | 0.82 | 0.73 |
| Correlation of Slopes | trailsb | -0.67 | -0.52 | -0.71 | -0.65 | -0.44 |
| Correlation of Slopes | waisvocab | -0.21 | -0.31 | -0.38 | -0.61 | -0.60 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Correlation of Residuals | block | -0.05 | -0.05 | 0.01 | 0.01 | 0.00 |
| Correlation of Residuals | bnt | 0.03 | 0.03 | -0.04 | -0.02 | -0.03 |
| Correlation of Residuals | categories | -0.03 | -0.02 | -0.03 | -0.02 | -0.02 |
| Correlation of Residuals | digit\_tot | -0.01 | -0.02 | 0.00 | -0.01 | -0.01 |
| Correlation of Residuals | fas | 0.04 | 0.03 | -0.01 | -0.02 | -0.00 |
| Correlation of Residuals | information | -0.13 | -0.13 | 0.02 | 0.02 | 0.03 |
| Correlation of Residuals | logic\_tot | -0.02 | -0.02 | -0.02 | -0.02 | -0.03 |
| Correlation of Residuals | mmse | 0.01 | 0.01 | 0.03 | 0.03 | 0.03 |
| Correlation of Residuals | symbol | 0.04 | 0.04 | -0.06 | -0.05 | -0.03 |
| Correlation of Residuals | trailsb | 0.13 | 0.13 | 0.02 | 0.03 | 0.02 |
| Correlation of Residuals | waisvocab | -0.05 | -0.05 | -0.06 | -0.06 | -0.06 |

P-values for corresponding covariances:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Levels | block | 0.00 | 0.00 | 0.36 | 0.45 | 0.58 |
| Covariance of Levels | bnt | 0.13 | 0.15 | 0.49 | 0.67 | 0.66 |
| Covariance of Levels | categories | 0.07 | 0.13 | 0.54 | 0.58 | 0.66 |
| Covariance of Levels | digit\_tot | 0.03 | 0.04 | 0.75 | 0.87 | 0.97 |
| Covariance of Levels | fas | 0.01 | 0.02 | 0.87 | 0.86 | 0.77 |
| Covariance of Levels | information | 0.34 | 0.53 | 0.24 | 0.41 | 0.46 |
| Covariance of Levels | logic\_tot | 0.08 | 0.18 | 0.53 | 0.64 | 0.68 |
| Covariance of Levels | mmse | 0.06 | 0.07 | 0.55 | 0.68 | 0.77 |
| Covariance of Levels | symbol | 0.00 | 0.00 | 0.77 | 0.97 | 0.92 |
| Covariance of Levels | trailsb | 0.02 | 0.04 | 0.96 | 0.97 | 0.95 |
| Covariance of Levels | waisvocab | 0.38 | 0.59 | 0.78 | 0.77 | 0.74 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Slopes | block | 0.58 | 0.61 | 0.95 | 0.98 | 0.97 |
| Covariance of Slopes | bnt | 0.83 | 0.83 | 0.88 | 0.92 | 0.91 |
| Covariance of Slopes | categories | 0.49 | 0.64 | 0.56 | 0.55 | 0.66 |
| Covariance of Slopes | digit\_tot | 0.77 | 0.91 | 0.51 | 0.66 | 0.67 |
| Covariance of Slopes | fas | 0.33 | 0.38 | 0.87 | 0.76 | 0.79 |
| Covariance of Slopes | information | 0.32 | 0.30 | 0.97 | 0.98 | 0.98 |
| Covariance of Slopes | logic\_tot | 1.00 | 0.72 | 0.87 | 0.80 | 0.85 |
| Covariance of Slopes | mmse | 0.98 | 0.99 | 0.95 | 0.96 | 0.93 |
| Covariance of Slopes | symbol | 0.48 | 0.67 | 0.36 | 0.53 | 0.64 |
| Covariance of Slopes | trailsb | 0.24 | 0.33 | 0.43 | 0.74 | 0.84 |
| Covariance of Slopes | waisvocab | 0.70 | 0.59 | 0.86 | 0.83 | 0.84 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| label | process\_b | a | ae | aeh | aehplus | full |
| Covariance of Residuals | block | 0.50 | 0.51 | 0.91 | 0.95 | 0.98 |
| Covariance of Residuals | bnt | 0.60 | 0.61 | 0.80 | 0.91 | 0.89 |
| Covariance of Residuals | categories | 0.72 | 0.75 | 0.85 | 0.90 | 0.91 |
| Covariance of Residuals | digit\_tot | 0.86 | 0.84 | 0.98 | 0.96 | 0.98 |
| Covariance of Residuals | fas | 0.61 | 0.65 | 0.97 | 0.93 | 0.99 |
| Covariance of Residuals | information | 0.05 | 0.06 | 0.88 | 0.90 | 0.91 |
| Covariance of Residuals | logic\_tot | 0.75 | 0.82 | 0.90 | 0.89 | 0.91 |
| Covariance of Residuals | mmse | 0.91 | 0.92 | 0.84 | 0.85 | 0.86 |
| Covariance of Residuals | symbol | 0.48 | 0.48 | 0.74 | 0.83 | 0.90 |
| Covariance of Residuals | trailsb | 0.05 | 0.07 | 0.86 | 0.84 | 0.90 |
| Covariance of Residuals | waisvocab | 0.53 | 0.58 | 0.72 | 0.78 | 0.78 |

#Session Info

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 ggplot2\_2.1.0 magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 munsell\_0.4.3 testit\_0.5 colorspace\_1.2-7 R6\_2.2.0 stringr\_1.1.0   
 [7] highr\_0.6 plyr\_1.8.4 dplyr\_0.5.0 tools\_3.3.1 DT\_0.2 grid\_3.3.1   
[13] gtable\_0.2.0 DBI\_0.5-1 htmltools\_0.3.5 yaml\_2.1.13 lazyeval\_0.2.0 assertthat\_0.1   
[19] digest\_0.6.10 tibble\_1.2 formatR\_1.4 readr\_1.0.0 tidyr\_0.6.0 htmlwidgets\_0.7   
[25] rsconnect\_0.5 evaluate\_0.10 rmarkdown\_1.1 stringi\_1.1.2 scales\_0.4.0