BISR: gait

Date: 2016-12-05

## Legend

* Cov(Slopes) = raw covariance
* Corr(Slopes)Est = correlation , ESTimated in Mplus
* CI(Slopes)Est = Confidence intervals estimated in Mplus
* Corr(Slopes)Comp = correlation, computed outside of Mplus

Note: cases in which restricted (co)variances or insufficient decimals prevent the computation of correlations are marked by ---

Raw covariance and estimated correlations are reported in the form : est(se) pval star  
where  
- est is the covariance estimate on the original metric  
- se is the standard error on the original metric  
- pval is the p-value associated with the raw covariance  
- star is significance indicator associated with corresponding covariance estimate, with ., \*, \*\*, and \*\*\* indicating significance at .10, .05, .01, and .001 alpha levels, respectively

Confidence intervals for estimated correlations are reported in the form: (low,high) where - low - bottom boundry of the 95% confidence interval - high - top boundry of the 95% confidence interval

Computed correlations are reported in the form: est(low, high)  
where  
- est is the correlation coefficient computed from raw (co)variances using Fisher transfrom  
- low and high are the 95% confidence intervals associated with the computed correlations

# Group by domain

## male

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| attention | map | grip | digit\_f | 321 | 1.78(1.67), =.28 | .08( .08), =.28 | (-.07, .23) | .08(-.03, .19) | .04( .08), =.61 | .25( .51), =.62 | (-.74,1.25) | .25( .15, .35) | .05( .36), =.88 | .01( .05), =.88 | (-.09, .11) | .01(-.10, .12) |
| attention | octo | grip | digit\_f | 139 | -.29( .26), =.27 | -.15( .13), =.24 | (-.40, .10) | -.15(-.31, .01) | .00( .01), =.50 | .24( .36), =.51 | (-.47, .95) | .23( .07, .38) | -.07( .06), =.30 | -.07( .07), =.30 | (-.21, .06) | -.07(-.24, .09) |
| attention | satsa | grip | digit\_f | 299 | .92( .62), =.14 | .19( .12), =.12 | (-.05, .43) | .19( .08, .30) | .00( .00), =.61 | .40( .77), =.60 | (-1.11,1.92) | --- | .17( .25), =.49 | .04( .05), =.49 | (-.06, .13) | .04(-.07, .15) |
| attention | hrs | grip | serial7 | 3288 | .82( .21), <.01 \*\*\* | .15( .04), <.01 \*\*\* | ( .08, .23) | .16( .12, .19) | .02( .01), <.01 \*\* | .30( .11), =.01 \*\* | ( .08, .52) | .31( .28, .34) | -.17( .12), =.17 | -.04( .03), =.17 | (-.09, .01) | -.04(-.07,-.00) |
| episodic memory | map | grip | bstory\_de | 321 | 1.82(1.79), =.31 | .10( .09), =.30 | (-.09, .28) | .09(-.01, .20) | -.08( .13), =.50 | -.55( .51), =.28 | (-1.54, .44) | -.56(-.63,-.48) | .41( .43), =.34 | .04( .05), =.34 | (-.05, .13) | .04(-.07, .15) |
| episodic memory | map | grip | logic\_de | 321 | -2.80(4.09), =.49 | -.06( .08), =.49 | (-.22, .11) | -.06(-.17, .05) | -.05( .18), =.77 | -.07( .23), =.77 | (-.51, .38) | -.07(-.17, .04) | .60( .60), =.32 | .04( .04), =.32 | (-.04, .13) | .04(-.06, .15) |
| episodic memory | eas | grip | logic\_tot | 217 | -3.83(8.66), =.66 | -.12( .26), =.66 | (-.63, .40) | -.12(-.25, .02) | .03( .58), =.95 | .03( .49), =.95 | (-.93, .98) | .03(-.11, .16) | 1.94(1.67), =.24 | .13( .11), =.24 | (-.09, .35) | .13(-.00, .26) |
| episodic memory | elsa | grip | word\_de | 3045 | .29( .26), =.27 | .04( .04), =.27 | (-.03, .11) | .04( .00, .08) | -.01( .00), =.12 | -.51( .40), =.21 | (-1.30, .28) | -.50(-.53,-.47) | .15( .12), =.22 | .03( .02), =.22 | (-.02, .07) | .03(-.01, .06) |
| episodic memory | hrs | grip | word\_de | 3290 | 1.04( .23), <.01 \*\*\* | .15( .03), <.01 \*\*\* | ( .09, .21) | .15( .12, .18) | .00( .01), =.39 | .28( .35), =.42 | (-.40, .96) | .29( .26, .32) | .14( .12), =.22 | .03( .02), =.22 | (-.02, .07) | .03(-.01, .06) |
| episodic memory | map | grip | word\_de | 321 | -.57(1.68), =.73 | -.02( .07), =.73 | (-.17, .12) | -.02(-.13, .09) | -.03( .10), =.77 | -.12( .42), =.78 | (-.94, .71) | -.12(-.23,-.01) | -.12( .31), =.70 | -.02( .04), =.71 | (-.10, .07) | -.02(-.13, .09) |
| episodic memory | map | grip | word\_rec | 321 | .85(1.00), =.40 | .06( .07), =.38 | (-.07, .19) | .06(-.05, .17) | .03( .06), =.60 | .11( .21), =.60 | (-.31, .53) | .11( .00, .22) | -.07( .22), =.76 | -.02( .06), =.76 | (-.13, .09) | -.02(-.13, .09) |
| executive function | eas | grip | trailsb | 221 | 65.59(99.53), =.51 | .23( .33), =.49 | (-.43, .88) | .23( .10, .35) | -2.80(5.96), =.64 | -.37( .81), =.65 | (-1.95,1.21) | -.37(-.48,-.25) | -4.35(23.71), =.85 | -.03( .16), =.85 | (-.33, .28) | -.03(-.16, .10) |
| fluency | eas | grip | categories | 222 | 3.04(11.79), =.80 | .07( .26), =.80 | (-.45, .58) | .07(-.06, .20) | 1.33( .79), =.09 . | .87( .55), =.11 | (-.21,1.95) | .87( .84, .90) | -2.01(2.28), =.38 | -.12( .13), =.37 | (-.37, .13) | -.12(-.24, .02) |
| fluency | map | grip | categories | 321 | 1.41(7.82), =.86 | .01( .07), =.86 | (-.13, .15) | .01(-.10, .12) | .35( .38), =.35 | .25( .28), =.36 | (-.29, .80) | .25( .15, .35) | -.90(1.22), =.46 | -.04( .05), =.46 | (-.13, .06) | -.04(-.14, .07) |
| fluency | eas | grip | fas | 222 | -2.14(11.20), =.85 | -.04( .19), =.85 | (-.41, .33) | -.04(-.17, .10) | .59( .97), =.54 | .66(1.21), =.58 | (-1.70,3.03) | .66( .58, .73) | -1.73(2.65), =.51 | -.08( .12), =.51 | (-.31, .15) | -.08(-.21, .05) |
| fluency | ilse | grip | fluency | 252 | 9.48(13.28), =.47 | .07( .10), =.47 | (-.13, .27) | .07(-.05, .20) | .04( .15), =.80 | .19( .76), =.80 | (-1.30,1.69) | .19( .07, .31) | 13.29(5.00), =.01 \*\* | .21( .07), <.01 \*\* | ( .06, .35) | .21( .09, .32) |
| fluid reasoning | satsa | grip | analogies | 299 | 1.99(1.84), =.28 | .13( .11), =.27 | (-.10, .35) | .13( .01, .24) | .01( .01), =.15 | .69( .53), =.19 | (-.35,1.73) | .67( .60, .73) | 2.35( .69), <.01 \*\*\* | .17( .05), <.01 \*\*\* | ( .07, .26) | .17( .06, .28) |
| fluid reasoning | eas | grip | block | 210 | 3.94(13.52), =.77 | .08( .29), =.77 | (-.48, .65) | .08(-.05, .22) | .44( .71), =.54 | .64(1.24), =.60 | (-1.78,3.06) | .64( .55, .71) | .07(2.20), =.98 | .00( .12), =.98 | (-.23, .24) | .00(-.13, .14) |
| fluid reasoning | octo | grip | block | 139 | 3.62(1.22), <.01 \*\* | .30( .09), <.01 \*\*\* | ( .13, .47) | .30( .14, .45) | -.01( .03), =.74 | -.25(1.03), =.80 | (-2.26,1.76) | -.25(-.40,-.08) | .52( .24), =.03 \* | .14( .06), =.02 \* | ( .02, .26) | .14(-.03, .30) |
| fluid reasoning | satsa | grip | block | 298 | 13.31(3.74), <.01 \*\*\* | .40( .09), <.01 \*\*\* | ( .23, .58) | .40( .30, .49) | .03( .01), =.05 \* | .79( .44), =.07 . | (-.08,1.66) | .78( .73, .82) | 2.52( .90), <.01 \*\* | .14( .05), <.01 \*\* | ( .04, .23) | .12( .01, .23) |
| fluid reasoning | map | grip | matrices | 308 | 1.54(2.09), =.46 | .06( .08), =.45 | (-.09, .21) | .06(-.05, .17) | .25( .11), =.02 \* | .75( .12), <.01 \*\*\* | ( .51, .99) | .76( .70, .80) | -.20( .54), =.71 | -.02( .05), =.71 | (-.13, .09) | -.02(-.13, .09) |
| fluid reasoning | lasa | grip | raven | 800 | 2.65( .89), <.01 \*\* | .17( .05), <.01 \*\* | ( .06, .27) | .17( .10, .23) | .02( .01), =.02 \* | .93( .69), =.18 | (-.43,2.28) | .92( .91, .93) | .70( .31), =.03 \* | .07( .03), =.02 \* | ( .01, .14) | .08( .01, .14) |
| fluid reasoning | satsa | grip | rotate | 299 | 32.45(9.82), <.01 \*\*\* | .36( .09), <.01 \*\*\* | ( .18, .54) | .36( .25, .45) | -.01( .05), =.80 | -.13( .55), =.81 | (-1.20, .94) | -.13(-.24,-.02) | 6.04(3.15), =.06 . | .10( .05), =.05 . | (-.00, .20) | .10(-.02, .21) |
| fluid reasoning | ilse | grip | spatial\_ab | 252 | 18.41(9.77), =.06 . | .18( .10), =.06 . | (-.01, .38) | .18( .06, .30) | .17( .14), =.22 | .41( .33), =.21 | (-.23,1.06) | .41( .30, .51) | -1.59(2.61), =.54 | -.04( .07), =.54 | (-.18, .09) | -.04(-.17, .08) |
| mental status | nuage | grip | mmms | 847 | 5.49(2.04), =.01 \*\* | .13( .05), =.01 \*\* | ( .04, .22) | .13( .06, .20) | .33( .23), =.16 | .28( .21), =.19 | (-.14, .70) | .28( .22, .34) | -.71( .47), =.13 | -.04( .02), =.13 | (-.08, .01) | -.04(-.10, .03) |
| mental status | eas | grip | mmse | 222 | -.10(3.04), =.97 | -.02( .50), =.97 | (-1.00, .97) | -.02(-.15, .12) | -.03( .18), =.86 | -.33(2.08), =.88 | (-4.41,3.76) | -.33(-.44,-.20) | .34( .49), =.50 | .09( .13), =.50 | (-.16, .33) | .09(-.05, .22) |
| mental status | map | grip | mmse | 321 | 4.00(2.30), =.08 . | .17( .07), =.01 \* | ( .03, .31) | .17( .06, .28) | .30( .17), =.08 . | .69( .23), <.01 \*\* | ( .23,1.15) | .69( .63, .75) | .01( .41), =.98 | .00( .05), =.98 | (-.10, .10) | .00(-.11, .11) |
| mental status | nuage | grip | mmse | 847 | 2.28( .74), <.01 \*\* | .18( .06), <.01 \*\* | ( .07, .30) | .18( .12, .25) | .13( .11), =.23 | .30( .25), =.23 | (-.19, .79) | .30( .24, .36) | .02( .22), =.92 | .00( .03), =.92 | (-.05, .06) | .00(-.06, .07) |
| mental status | satsa | grip | mmse | 299 | 2.17(1.12), =.05 . | .27( .13), =.04 \* | ( .01, .52) | .27( .16, .37) | .01( .01), =.31 | .34( .30), =.27 | (-.26, .93) | .33( .23, .43) | 1.04( .41), =.01 \* | .13( .05), =.01 \*\* | ( .03, .22) | .13( .02, .24) |
| mental status | hrs | grip | tics | 507 | .67(1.48), =.65 | --- | --- | .13( .04, .21) | .06( .06), =.31 | --- | --- | .11( .02, .20) | -1.11( .97), =.25 | --- | --- | -.10(-.18,-.01) |
| perceptual speed | lasa | grip | letter | 800 | 3.28(1.69), =.05 . | .10( .05), =.05 \* | ( .00, .20) | .10( .03, .17) | .03( .02), =.09 . | .61( .41), =.13 | (-.18,1.41) | .60( .55, .64) | .96( .39), =.01 \* | .09( .03), =.01 \* | ( .02, .15) | .09( .02, .16) |
| perceptual speed | map | grip | num\_comp | 321 | 3.24(5.94), =.58 | .04( .07), =.58 | (-.10, .17) | .04(-.07, .15) | -.18( .31), =.56 | -.21( .35), =.54 | (-.89, .47) | -.21(-.31,-.10) | .67( .92), =.47 | .03( .04), =.47 | (-.05, .12) | .03(-.08, .14) |
| perceptual speed | eas | grip | symbol | 221 | -6.69(18.32), =.71 | -.11( .29), =.71 | (-.67, .46) | -.11(-.24, .02) | 2.09(1.20), =.08 . | .92( .50), =.07 . | (-.06,1.91) | .93( .90, .94) | .43(2.60), =.87 | .02( .12), =.87 | (-.22, .27) | .02(-.11, .15) |
| perceptual speed | ilse | grip | symbol | 252 | -14.22(16.99), =.40 | -.08( .10), =.41 | (-.27, .11) | -.08(-.20, .04) | -.04( .20), =.85 | -.07( .36), =.85 | (-.77, .63) | -.07(-.19, .06) | 3.40(4.14), =.41 | .06( .08), =.40 | (-.09, .22) | .07(-.06, .19) |
| perceptual speed | map | grip | symbol | 321 | 16.04(9.44), =.09 . | .13( .07), =.07 . | (-.01, .27) | .13( .02, .23) | .60( .42), =.16 | .49( .32), =.13 | (-.14,1.12) | .49( .40, .57) | -.24(1.11), =.83 | -.01( .04), =.83 | (-.10, .08) | -.01(-.12, .10) |
| perceptual speed | octo | grip | symbol | 138 | 4.32(1.88), =.02 \* | .24( .10), =.01 \* | ( .05, .43) | .24( .07, .39) | -.01( .06), =.85 | -.08( .44), =.86 | (-.94, .78) | -.08(-.24, .09) | .76( .46), =.09 . | .15( .09), =.08 . | (-.02, .32) | .15(-.02, .31) |
| perceptual speed | satsa | grip | symbol | 299 | 15.98(4.96), <.01 \*\*\* | .32( .09), <.01 \*\*\* | ( .14, .49) | .32( .21, .42) | .00( .02), =.92 | .04( .44), =.92 | (-.81, .90) | .04(-.07, .16) | 4.53(1.42), <.01 \*\*\* | .16( .05), <.01 \*\*\* | ( .06, .26) | .15( .03, .25) |
| semantic memory | eas | grip | bnt | 222 | -1.25(4.34), =.77 | -.11( .38), =.77 | (-.87, .64) | -.11(-.24, .02) | -.02( .20), =.91 | -.18(1.82), =.92 | (-3.76,3.39) | -.18(-.30,-.05) | -.29( .63), =.65 | -.06( .12), =.64 | (-.29, .18) | -.06(-.19, .08) |
| semantic memory | map | grip | bnt | 321 | 2.95(1.26), =.02 \* | .19( .05), <.01 \*\*\* | ( .09, .30) | .19( .09, .30) | .05( .03), =.05 \* | .73( .18), <.01 \*\*\* | ( .37,1.08) | .77( .72, .81) | .12( .15), =.42 | .03( .04), =.42 | (-.05, .12) | .03(-.08, .14) |
| semantic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| semantic memory | map | grip | nart | 321 | 3.38(1.83), =.06 . | .12( .06), =.06 . | (-.00, .25) | .12( .01, .23) | .08( .07), =.23 | .38( .33), =.25 | (-.27,1.02) | .38( .28, .47) | -.14( .27), =.60 | -.03( .06), =.59 | (-.14, .08) | -.03(-.14, .08) |
| semantic memory | satsa | grip | synonyms | 299 | 5.13(2.75), =.06 . | .19( .10), =.05 . | (-.00, .38) | .19( .08, .30) | -.01( .01), =.37 | -.42( .51), =.41 | (-1.42, .58) | -.39(-.48,-.29) | .15( .55), =.79 | .01( .05), =.79 | (-.08, .10) | .01(-.10, .13) |
| semantic memory | ilse | grip | waisgeneral | 252 | 7.82(6.86), =.26 | .12( .11), =.25 | (-.09, .33) | .12(-.00, .24) | .01( .06), =.82 | .23(1.11), =.83 | (-1.94,2.41) | .22( .10, .34) | -.87(1.91), =.65 | -.04( .08), =.65 | (-.20, .12) | -.04(-.16, .09) |
| semantic memory | eas | grip | waisvocab | 222 | 6.82(19.57), =.73 | .12( .34), =.73 | (-.55, .79) | .12(-.01, .25) | -.01(1.25), =.99 | -.02(1.37), =.99 | (-2.69,2.66) | -.02(-.15, .12) | -3.58(4.03), =.38 | -.13( .14), =.37 | (-.42, .15) | -.13(-.26, .00) |
| short-term memory | map | grip | bstory\_im | 321 | 2.15(1.55), =.17 | .14( .10), =.16 | (-.06, .34) | .14( .03, .25) | -.00( .10), =.96 | -.03( .64), =.96 | (-1.28,1.22) | -.03(-.14, .08) | .07( .37), =.85 | .01( .04), =.85 | (-.08, .09) | .01(-.10, .12) |
| short-term memory | eas | grip | digit\_tot | 222 | .85(4.79), =.86 | .04( .25), =.86 | (-.45, .53) | .04(-.09, .18) | .10( .33), =.75 | .28( .90), =.75 | (-1.48,2.05) | .28( .15, .40) | .14( .77), =.86 | .02( .11), =.86 | (-.20, .24) | .02(-.11, .15) |
| short-term memory | satsa | grip | fig\_mem | 299 | 4.79(2.55), =.06 . | .24( .12), =.04 \* | ( .01, .46) | .24( .13, .34) | .01( .01), =.39 | .50( .50), =.32 | (-.49,1.49) | .50( .41, .58) | 1.91( .81), =.02 \* | .12( .05), =.02 \* | ( .02, .21) | .12( .00, .23) |
| short-term memory | map | grip | logic\_im | 321 | -5.23(3.88), =.18 | -.12( .09), =.17 | (-.29, .05) | -.12(-.23,-.01) | -.22( .17), =.19 | -.48( .38), =.22 | (-1.23, .28) | -.48(-.56,-.39) | .57( .67), =.40 | .04( .05), =.40 | (-.05, .13) | .04(-.07, .15) |
| short-term memory | octo | grip | prose\_im | 139 | 2.38( .78), <.01 \*\* | .35( .10), <.01 \*\*\* | ( .16, .54) | .35( .20, .49) | -.01( .05), =.79 | -.38(2.68), =.89 | (-5.63,4.87) | -.37(-.51,-.22) | .35( .25), =.16 | .14( .09), =.14 | (-.04, .32) | .14(-.03, .30) |
| short-term memory | eas | grip | word\_im | 222 | -5.96(7.58), =.43 | -.26( .31), =.41 | (-.87, .35) | -.26(-.38,-.13) | .32( .50), =.52 | .39( .61), =.53 | (-.82,1.59) | .39( .27, .49) | 1.04(1.72), =.54 | .07( .12), =.54 | (-.17, .31) | .07(-.06, .20) |
| short-term memory | elsa | grip | word\_im | 3043 | .13( .23), =.58 | .02( .04), =.58 | (-.05, .10) | .02(-.01, .06) | -.00( .00), =.12 | -.44( .34), =.20 | (-1.11, .23) | -.39(-.42,-.36) | .30( .12), =.01 \* | .06( .02), =.01 \* | ( .01, .11) | .06( .02, .09) |
| short-term memory | hrs | grip | word\_im | 3290 | .81( .20), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .07, .21) | .14( .11, .17) | .00( .00), =.85 | .08( .40), =.84 | (-.70, .85) | .08( .05, .12) | .25( .10), =.01 \* | .06( .02), =.01 \* | ( .01, .10) | .06( .02, .09) |
| short-term memory | lasa | grip | word\_im | 800 | 1.76(1.54), =.25 | .07( .06), =.25 | (-.05, .20) | .07( .00, .14) | .00( .01), =.84 | .16( .80), =.84 | (-1.39,1.72) | .17( .11, .24) | 2.25( .53), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .08, .20) | .14( .07, .20) |
| short-term memory | map | grip | word\_im | 321 | -.25(3.08), =.93 | -.01( .08), =.93 | (-.17, .16) | -.01(-.12, .10) | -.13( .16), =.41 | -.34( .38), =.38 | (-1.10, .41) | -.34(-.43,-.24) | .95( .68), =.16 | .07( .05), =.16 | (-.03, .16) | .07(-.04, .18) |
| verbal comprehension | map | grip | ideas | 321 | 1.04( .56), =.06 . | .16( .05), <.01 \*\*\* | ( .07, .25) | .16( .05, .26) | .02( .04), =.54 | .10( .15), =.51 | (-.20, .40) | .10(-.01, .21) | -.11( .08), =.14 | -.05( .03), =.13 | (-.10, .01) | -.05(-.15, .06) |
| visual discrimination | map | grip | line | 321 | 1.74(2.12), =.41 | .06( .07), =.41 | (-.08, .19) | .06(-.05, .16) | -.06( .14), =.68 | -.18( .42), =.68 | (-1.00, .65) | -.18(-.28,-.07) | -.26( .51), =.60 | -.03( .05), =.60 | (-.12, .07) | -.03(-.13, .08) |
| visual discrimination | ilse | grip | piccomp | 252 | 11.62(6.45), =.07 . | .22( .12), =.06 . | (-.01, .45) | .22( .10, .34) | .08( .10), =.43 | .43( .48), =.37 | (-.51,1.37) | .43( .32, .52) | 4.11(2.57), =.11 | .16( .09), =.09 . | (-.02, .34) | .16( .04, .28) |
| working memory | map | grip | digit\_b | 321 | .58(2.02), =.77 | .02( .09), =.77 | (-.14, .19) | .02(-.08, .13) | .01( .10), =.95 | .03( .44), =.95 | (-.84, .90) | .03(-.08, .14) | .91( .34), =.01 \*\* | .13( .05), <.01 \*\* | ( .04, .22) | .13( .02, .23) |
| working memory | octo | grip | digit\_b | 139 | .12( .23), =.60 | .06( .11), =.60 | (-.15, .26) | .06(-.11, .22) | .00( .01), =.68 | .20( .49), =.69 | (-.76,1.15) | .19( .03, .35) | -.16( .10), =.10 . | -.13( .07), =.08 . | (-.27, .02) | -.13(-.29, .04) |
| working memory | satsa | grip | digit\_b | 299 | 1.36( .62), =.03 \* | .29( .13), =.02 \* | ( .04, .54) | .29( .18, .39) | .00( .00), =.75 | .36(1.13), =.75 | (-1.85,2.57) | --- | -.11( .26), =.67 | -.02( .05), =.67 | (-.11, .07) | -.02(-.13, .10) |
| working memory | map | grip | digit\_o | 321 | .80(1.59), =.61 | .05( .10), =.61 | (-.14, .24) | .05(-.06, .16) | -.04( .08), =.64 | -.35( .78), =.66 | (-1.88,1.19) | -.35(-.44,-.25) | .00( .28), =.99 | .00( .04), =.99 | (-.09, .09) | .00(-.11, .11) |

## female

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| attention | map | grip | digit\_f | 935 | .27( .66), =.68 | .02( .04), =.68 | (-.07, .10) | .02(-.05, .08) | .06( .05), =.16 | .46( .33), =.16 | (-.18,1.11) | .47( .42, .52) | .15( .16), =.36 | .02( .03), =.36 | (-.03, .08) | .03(-.04, .09) |
| attention | octo | grip | digit\_f | 275 | -.07( .12), =.53 | -.06( .09), =.53 | (-.23, .12) | -.06(-.17, .06) | .00( .00), =.70 | .13( .33), =.70 | (-.52, .78) | .11(-.01, .23) | .04( .04), =.37 | .04( .05), =.38 | (-.05, .14) | .05(-.07, .16) |
| attention | satsa | grip | digit\_f | 409 | -.04( .32), =.90 | -.01( .10), =.90 | (-.21, .18) | -.01(-.11, .08) | .00( .00), =.38 | .59( .78), =.45 | (-.94,2.12) | --- | .09( .12), =.44 | .02( .03), =.44 | (-.04, .09) | .03(-.07, .12) |
| attention | hrs | grip | serial7 | 4604 | .13( .13), =.32 | .03( .03), =.32 | (-.03, .08) | .03(-.00, .06) | .01( .00), <.01 \*\*\* | .45( .13), <.01 \*\*\* | ( .20, .70) | .47( .44, .49) | -.08( .06), =.18 | -.03( .02), =.18 | (-.07, .01) | -.03(-.06, .00) |
| episodic memory | map | grip | bstory\_de | 935 | .32( .64), =.61 | .03( .06), =.61 | (-.08, .14) | .03(-.04, .09) | .06( .06), =.31 | .26( .26), =.32 | (-.25, .77) | .26( .20, .32) | -.08( .20), =.68 | -.01( .03), =.68 | (-.07, .04) | -.01(-.08, .05) |
| episodic memory | map | grip | logic\_de | 935 | .14(1.40), =.92 | .00( .04), =.92 | (-.08, .09) | .00(-.06, .07) | .11( .10), =.30 | .21( .20), =.28 | (-.17, .60) | .21( .15, .27) | .50( .31), =.10 | .05( .03), =.10 | (-.01, .10) | .05(-.02, .11) |
| episodic memory | eas | grip | logic\_tot | 360 | -2.26(3.85), =.56 | -.09( .15), =.56 | (-.38, .21) | -.09(-.19, .02) | .06( .29), =.84 | .13( .66), =.84 | (-1.16,1.42) | .13( .03, .23) | .73( .84), =.39 | .08( .09), =.39 | (-.10, .27) | .08(-.02, .18) |
| episodic memory | elsa | grip | word\_de | 3393 | .65( .17), <.01 \*\*\* | .13( .03), <.01 \*\*\* | ( .06, .19) | .13( .09, .16) | .00( .00), =.99 | -.01( .66), =.99 | (-1.31,1.29) | .00(-.03, .03) | .09( .09), =.31 | .02( .02), =.31 | (-.02, .07) | .02(-.01, .06) |
| episodic memory | hrs | grip | word\_de | 4612 | .49( .15), <.01 \*\*\* | .09( .03), <.01 \*\*\* | ( .04, .15) | .09( .06, .12) | .00( .00), =.92 | .04( .41), =.92 | (-.75, .84) | .00(-.03, .03) | .17( .07), =.01 \* | .05( .02), =.01 \* | ( .01, .08) | .05( .02, .08) |
| episodic memory | map | grip | word\_de | 935 | 2.66( .69), <.01 \*\*\* | .17( .04), <.01 \*\*\* | ( .09, .25) | .17( .10, .23) | .08( .04), =.05 . | .46( .26), =.07 . | (-.04, .97) | .46( .41, .51) | .02( .16), =.88 | .00( .03), =.88 | (-.05, .06) | .00(-.06, .07) |
| episodic memory | map | grip | word\_rec | 935 | 1.02( .28), <.01 \*\*\* | .15( .04), <.01 \*\*\* | ( .07, .23) | .15( .09, .21) | .01( .02), =.49 | .45(1.50), =.76 | (-2.49,3.39) | .51( .46, .55) | -.04( .06), =.50 | -.02( .02), =.50 | (-.07, .03) | -.02(-.08, .05) |
| executive function | eas | grip | trailsb | 362 | -25.61(42.55), =.55 | -.10( .18), =.55 | (-.45, .24) | -.10(-.21,-.00) | 8.76(4.43), =.05 \* | .82( .34), =.02 \* | ( .15,1.48) | .82( .78, .85) | 13.85(8.16), =.09 . | .15( .08), =.08 . | (-.02, .31) | .15( .04, .25) |
| fluency | eas | grip | categories | 363 | 2.88(4.99), =.56 | .08( .14), =.56 | (-.20, .36) | .08(-.02, .18) | .24( .43), =.58 | .21( .38), =.58 | (-.54, .96) | .21( .11, .31) | -.59( .70), =.40 | -.06( .07), =.40 | (-.21, .08) | -.06(-.16, .04) |
| fluency | map | grip | categories | 935 | 6.22(2.87), =.03 \* | .09( .04), =.03 \* | ( .01, .18) | .09( .03, .16) | .22( .18), =.22 | .23( .19), =.23 | (-.15, .60) | .23( .17, .29) | 1.29( .59), =.03 \* | .06( .03), =.03 \* | ( .01, .12) | .06(-.00, .12) |
| fluency | eas | grip | fas | 360 | 12.14(8.12), =.14 | .22( .14), =.12 | (-.06, .49) | .22( .12, .31) | .22( .53), =.68 | .14( .35), =.69 | (-.54, .83) | .14( .04, .24) | .19(1.06), =.86 | .02( .09), =.86 | (-.16, .19) | .02(-.09, .12) |
| fluency | ilse | grip | fluency | 225 | 13.64(14.92), =.36 | .10( .11), =.35 | (-.11, .32) | .10(-.03, .23) | .24( .27), =.38 | .58( .72), =.43 | (-.84,2.00) | .57( .48, .66) | 9.98(5.52), =.07 . | .15( .08), =.06 . | (-.01, .31) | .15( .02, .28) |
| fluid reasoning | satsa | grip | analogies | 409 | .08( .96), =.93 | .01( .10), =.93 | (-.19, .21) | .01(-.09, .11) | .01( .00), =.18 | .41( .31), =.18 | (-.19,1.02) | .45( .36, .52) | 1.24( .43), <.01 \*\* | .12( .04), <.01 \*\* | ( .04, .19) | .12( .02, .21) |
| fluid reasoning | eas | grip | block | 351 | 6.94(5.97), =.24 | .18( .15), =.23 | (-.12, .48) | .18( .08, .28) | .78( .44), =.07 . | .55( .28), =.05 \* | ( .00,1.10) | .55( .48, .62) | .25( .99), =.80 | .02( .10), =.80 | (-.17, .22) | .02(-.08, .13) |
| fluid reasoning | octo | grip | block | 274 | 3.10( .84), <.01 \*\*\* | .31( .08), <.01 \*\*\* | ( .15, .47) | .31( .20, .41) | .05( .02), <.01 \*\* | .76( .28), =.01 \*\* | ( .21,1.32) | .76( .71, .81) | .18( .19), =.35 | .05( .05), =.35 | (-.05, .15) | .05(-.07, .17) |
| fluid reasoning | satsa | grip | block | 409 | 4.99(2.09), =.02 \* | .22( .09), =.01 \* | ( .05, .40) | .22( .13, .31) | .00( .01), =.68 | .15( .36), =.68 | (-.55, .85) | .16( .07, .26) | 2.10( .61), <.01 \*\*\* | .14( .04), <.01 \*\*\* | ( .06, .21) | .13( .04, .23) |
| fluid reasoning | map | grip | matrices | 920 | 1.72( .92), =.06 . | .10( .05), =.06 . | (-.00, .21) | .10( .04, .17) | .07( .06), =.27 | .30( .27), =.26 | (-.23, .84) | .30( .24, .36) | -.10( .25), =.69 | -.01( .03), =.69 | (-.07, .05) | -.01(-.08, .05) |
| fluid reasoning | lasa | grip | raven | 782 | .29( .66), =.66 | .03( .07), =.66 | (-.10, .16) | .03(-.04, .10) | .00( .01), =.77 | .32(1.66), =.85 | (-2.93,3.57) | .33( .27, .39) | .09( .24), =.70 | .01( .03), =.70 | (-.05, .07) | .01(-.06, .08) |
| fluid reasoning | satsa | grip | rotate | 409 | 7.00(5.21), =.18 | .14( .10), =.17 | (-.06, .34) | .14( .04, .23) | .01( .03), =.65 | .31( .69), =.65 | (-1.03,1.66) | .33( .24, .41) | 4.87(2.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .10( .00, .19) |
| fluid reasoning | ilse | grip | spatial\_ab | 225 | .80(11.07), =.94 | .01( .10), =.94 | (-.19, .20) | .01(-.12, .14) | .08( .16), =.59 | .37( .79), =.64 | (-1.17,1.91) | .37( .26, .48) | -.37(3.83), =.92 | -.01( .09), =.92 | (-.18, .16) | -.01(-.14, .12) |
| mental status | nuage | grip | mmms | 934 | 1.64(1.87), =.38 | .04( .05), =.38 | (-.05, .14) | .04(-.02, .11) | .40( .28), =.15 | .28( .16), =.09 . | (-.04, .59) | .28( .22, .34) | .39( .41), =.34 | .02( .02), =.34 | (-.02, .07) | .02(-.04, .09) |
| mental status | eas | grip | mmse | 363 | 1.25(1.15), =.28 | .22( .20), =.27 | (-.17, .62) | .23( .12, .32) | -.04( .10), =.68 | -.39(1.06), =.71 | (-2.46,1.68) | -.41(-.50,-.32) | -.01( .21), =.98 | -.00( .10), =.98 | (-.20, .20) | -.00(-.11, .10) |
| mental status | map | grip | mmse | 935 | .31( .55), =.57 | .03( .06), =.57 | (-.08, .15) | .03(-.03, .10) | .12( .07), =.07 . | .55( .23), =.01 \* | ( .11,1.00) | .55( .51, .60) | .12( .15), =.43 | .02( .03), =.43 | (-.03, .07) | .02(-.04, .09) |
| mental status | nuage | grip | mmse | 934 | .86( .65), =.18 | .08( .06), =.20 | (-.04, .20) | .08( .02, .14) | .05( .10), =.60 | .16( .33), =.62 | (-.48, .80) | .16( .10, .22) | -.02( .19), =.92 | -.00( .02), =.92 | (-.05, .05) | -.00(-.07, .06) |
| mental status | satsa | grip | mmse | 411 | .18( .63), =.77 | .06( .19), =.77 | (-.32, .43) | .06(-.04, .15) | .01( .01), =.34 | .29( .28), =.29 | (-.25, .84) | .28( .19, .37) | 1.08( .30), <.01 \*\*\* | .13( .04), <.01 \*\*\* | ( .06, .20) | .13( .04, .23) |
| mental status | hrs | grip | tics | 641 | 2.48(1.40), =.08 . | --- | --- | .16( .08, .24) | .10( .06), =.08 . | --- | --- | .16( .08, .23) | -.40( .46), =.39 | --- | --- | -.04(-.12, .04) |
| perceptual speed | lasa | grip | letter | 782 | .70(1.29), =.59 | .03( .06), =.59 | (-.08, .15) | .03(-.04, .10) | .01( .01), =.40 | .40( .93), =.67 | (-1.43,2.22) | .41( .35, .47) | .65( .23), <.01 \*\* | .08( .03), <.01 \*\* | ( .02, .13) | .08( .01, .15) |
| perceptual speed | map | grip | num\_comp | 934 | 1.98(2.50), =.43 | .04( .04), =.43 | (-.05, .12) | .04(-.03, .10) | -.02( .13), =.88 | -.04( .24), =.88 | (-.51, .43) | -.04(-.10, .03) | .57( .46), =.22 | .03( .03), =.22 | (-.02, .08) | .03(-.03, .10) |
| perceptual speed | eas | grip | symbol | 363 | 18.82(8.86), =.03 \* | .28( .12), =.02 \* | ( .04, .53) | .28( .18, .37) | 2.04( .58), <.01 \*\*\* | .84( .20), <.01 \*\*\* | ( .44,1.24) | .84( .81, .87) | -.50( .99), =.61 | -.04( .08), =.61 | (-.20, .12) | -.04(-.14, .06) |
| perceptual speed | ilse | grip | symbol | 225 | -48.56(20.52), =.02 \* | -.25( .09), =.01 \*\* | (-.43,-.06) | -.25(-.37,-.12) | .12( .17), =.48 | .21( .30), =.48 | (-.38, .80) | .21( .08, .33) | -.64(3.70), =.86 | -.01( .07), =.86 | (-.16, .13) | -.01(-.14, .12) |
| perceptual speed | map | grip | symbol | 934 | 6.67(3.50), =.06 . | .09( .04), =.06 . | (-.00, .17) | .09( .02, .15) | .07( .22), =.77 | .06( .22), =.77 | (-.37, .50) | .06( .00, .13) | -.19( .57), =.74 | -.01( .03), =.74 | (-.06, .04) | -.01(-.07, .06) |
| perceptual speed | octo | grip | symbol | 271 | 2.62(1.18), =.03 \* | .18( .08), =.02 \* | ( .02, .34) | .18( .06, .29) | .01( .02), =.59 | .17( .31), =.58 | (-.43, .77) | .16( .04, .27) | .72( .32), =.02 \* | .12( .05), =.02 \* | ( .02, .22) | .12( .00, .24) |
| perceptual speed | satsa | grip | symbol | 409 | 8.61(3.14), =.01 \*\* | .26( .09), <.01 \*\* | ( .09, .44) | .26( .17, .35) | .02( .01), =.11 | .46( .24), =.05 \* | ( .00, .93) | .47( .39, .54) | 2.51(1.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .11( .02, .21) |
| semantic memory | eas | grip | bnt | 363 | 1.75(1.60), =.28 | .16( .15), =.26 | (-.12, .45) | .17( .06, .26) | -.08( .13), =.55 | -.43( .82), =.59 | (-2.03,1.17) | -.44(-.52,-.35) | .20( .22), =.37 | .06( .07), =.38 | (-.08, .21) | .06(-.04, .17) |
| semantic memory | map | grip | bnt | 934 | .84( .42), =.05 \* | .09( .04), =.05 \* | ( .00, .17) | .09( .02, .15) | .00( .03), =.91 | .02( .20), =.91 | (-.37, .41) | .02(-.04, .08) | -.03( .08), =.70 | -.01( .03), =.70 | (-.07, .04) | -.01(-.07, .05) |
| semantic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| semantic memory | map | grip | nart | 932 | -.17( .73), =.82 | -.01( .04), =.82 | (-.09, .07) | -.01(-.07, .05) | .03( .03), =.30 | .26( .27), =.33 | (-.27, .80) | .27( .21, .33) | -.08( .11), =.49 | -.02( .03), =.49 | (-.08, .04) | -.02(-.08, .04) |
| semantic memory | satsa | grip | synonyms | 409 | 1.86(1.41), =.19 | .12( .09), =.18 | (-.05, .29) | .12( .02, .21) | .00( .01), =.52 | .26( .42), =.53 | (-.56,1.08) | .29( .20, .38) | .63( .38), =.10 . | .06( .04), =.10 . | (-.01, .14) | .06(-.03, .16) |
| semantic memory | ilse | grip | waisgeneral | 225 | 2.20(7.03), =.75 | .03( .09), =.75 | (-.15, .21) | .03(-.10, .16) | .11( .10), =.27 | .42( .42), =.32 | (-.40,1.23) | .43( .31, .53) | -1.78(1.78), =.32 | -.08( .08), =.31 | (-.23, .07) | -.08(-.21, .05) |
| semantic memory | eas | grip | waisvocab | 363 | 6.49(7.71), =.40 | .12( .15), =.40 | (-.16, .41) | .12( .02, .22) | .19( .46), =.68 | .25( .64), =.69 | (-1.00,1.51) | .25( .15, .35) | -.37(1.51), =.80 | -.03( .10), =.80 | (-.23, .18) | -.03(-.13, .08) |
| short-term memory | map | grip | bstory\_im | 935 | -.14( .54), =.80 | -.01( .06), =.80 | (-.13, .10) | -.01(-.08, .05) | .02( .05), =.69 | .11( .28), =.69 | (-.44, .66) | .11( .05, .17) | -.08( .18), =.66 | -.01( .03), =.66 | (-.07, .04) | -.01(-.08, .05) |
| short-term memory | eas | grip | digit\_tot | 363 | -.45(2.25), =.84 | -.03( .15), =.84 | (-.32, .26) | -.03(-.13, .07) | .46( .17), =.01 \*\* | .83( .27), <.01 \*\* | ( .31,1.35) | .83( .79, .86) | -.12( .30), =.69 | -.03( .08), =.69 | (-.19, .13) | -.03(-.13, .07) |
| short-term memory | satsa | grip | fig\_mem | 409 | .30(1.20), =.80 | .02( .10), =.80 | (-.17, .21) | .02(-.07, .12) | .00( .01), =.77 | .12( .41), =.76 | (-.67, .92) | .12( .02, .21) | 1.60( .53), <.01 \*\* | .13( .04), <.01 \*\* | ( .05, .22) | .13( .03, .22) |
| short-term memory | map | grip | logic\_im | 935 | -.09(1.40), =.95 | -.00( .04), =.95 | (-.09, .09) | -.00(-.07, .06) | .16( .09), =.08 . | .37( .21), =.08 . | (-.05, .79) | .37( .31, .42) | .02( .31), =.94 | .00( .03), =.94 | (-.05, .06) | .00(-.06, .07) |
| short-term memory | octo | grip | prose\_im | 272 | .68( .38), =.08 . | .14( .07), =.07 . | (-.01, .28) | .14( .02, .25) | .01( .01), =.31 | .37( .35), =.29 | (-.31,1.05) | .36( .25, .46) | .14( .16), =.39 | .06( .07), =.38 | (-.07, .19) | .06(-.06, .18) |
| short-term memory | eas | grip | word\_im | 363 | 2.33(4.21), =.58 | .10( .19), =.57 | (-.26, .47) | .10( .00, .21) | -.05( .32), =.88 | -.09( .60), =.88 | (-1.27,1.08) | -.09(-.19, .01) | .97( .73), =.18 | .12( .09), =.18 | (-.05, .29) | .12( .02, .22) |
| short-term memory | elsa | grip | word\_im | 3391 | .48( .16), <.01 \*\* | .12( .04), <.01 \*\* | ( .04, .19) | .12( .08, .15) | .00( .00), =.92 | -.03( .29), =.92 | (-.60, .54) | .00(-.03, .03) | .05( .08), =.52 | .01( .02), =.52 | (-.03, .06) | .01(-.02, .05) |
| short-term memory | hrs | grip | word\_im | 4612 | .58( .12), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .09, .20) | .14( .12, .17) | .00( .00), =.46 | .32( .51), =.53 | (-.68,1.32) | .28( .25, .30) | .09( .06), =.14 | .03( .02), =.14 | (-.01, .07) | .03(-.00, .06) |
| short-term memory | lasa | grip | word\_im | 782 | 1.75(1.09), =.11 | .11( .07), =.10 | (-.02, .25) | .11( .04, .18) | .00( .01), =.90 | .23(2.09), =.91 | (-3.86,4.32) | .15( .09, .22) | 1.68( .38), <.01 \*\*\* | .12( .03), <.01 \*\*\* | ( .07, .17) | .12( .05, .19) |
| short-term memory | map | grip | word\_im | 935 | 5.17(1.34), <.01 \*\*\* | .17( .04), <.01 \*\*\* | ( .09, .25) | .17( .11, .23) | .26( .10), =.01 \*\* | .53( .20), =.01 \*\* | ( .13, .94) | .53( .49, .58) | .21( .32), =.51 | .02( .03), =.51 | (-.04, .08) | .02(-.05, .08) |
| verbal comprehension | map | grip | ideas | 935 | .19( .21), =.37 | .05( .06), =.37 | (-.06, .17) | .05(-.01, .12) | .01( .02), =.56 | .15( .26), =.56 | (-.36, .67) | .15( .09, .22) | .03( .06), =.63 | .01( .03), =.63 | (-.04, .07) | .01(-.05, .08) |
| visual discrimination | map | grip | line | 934 | 2.17(1.05), =.04 \* | .11( .05), =.04 \* | ( .01, .21) | .11( .04, .17) | .08( .07), =.30 | .74(1.13), =.51 | (-1.47,2.95) | .73( .70, .76) | .24( .23), =.29 | .03( .03), =.29 | (-.02, .08) | .03(-.04, .09) |
| visual discrimination | ilse | grip | piccomp | 225 | 2.07(6.71), =.76 | .04( .12), =.76 | (-.20, .27) | .04(-.09, .17) | .07( .12), =.57 | .26( .48), =.59 | (-.67,1.19) | .26( .13, .38) | .36(2.76), =.90 | .01( .08), =.90 | (-.15, .17) | .01(-.12, .14) |
| working memory | map | grip | digit\_b | 935 | 1.18( .67), =.08 . | .08( .04), =.07 . | (-.01, .17) | .08( .02, .14) | .05( .04), =.26 | .31( .28), =.27 | (-.24, .85) | .31( .25, .36) | .38( .16), =.02 \* | .07( .03), =.02 \* | ( .01, .12) | .07( .00, .13) |
| working memory | octo | grip | digit\_b | 275 | -.00( .13), =.98 | -.00( .10), =.98 | (-.20, .20) | -.00(-.12, .12) | -.00( .00), =.40 | -.44( .64), =.49 | (-1.69, .81) | -.49(-.57,-.39) | .06( .06), =.35 | .05( .05), =.35 | (-.05, .14) | .05(-.07, .16) |
| working memory | satsa | grip | digit\_b | 409 | .45( .40), =.26 | .13( .12), =.26 | (-.10, .36) | .13( .03, .22) | .00( .00), =.29 | .31( .28), =.26 | (-.23, .85) | .29( .20, .38) | .25( .18), =.16 | .05( .04), =.16 | (-.02, .12) | .06(-.04, .16) |
| working memory | map | grip | digit\_o | 935 | .59( .54), =.27 | .06( .05), =.27 | (-.05, .17) | .06(-.00, .12) | .09( .04), =.03 \* | .60( .31), =.05 . | (-.00,1.20) | .60( .55, .64) | -.01( .14), =.94 | -.00( .03), =.94 | (-.06, .05) | -.00(-.07, .06) |

# Grouped by study

## male

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| episodic memory | eas | grip | logic\_tot | 217 | -3.83(8.66), =.66 | -.12( .26), =.66 | (-.63, .40) | -.12(-.25, .02) | .03( .58), =.95 | .03( .49), =.95 | (-.93, .98) | .03(-.11, .16) | 1.94(1.67), =.24 | .13( .11), =.24 | (-.09, .35) | .13(-.00, .26) |
| executive function | eas | grip | trailsb | 221 | 65.59(99.53), =.51 | .23( .33), =.49 | (-.43, .88) | .23( .10, .35) | -2.80(5.96), =.64 | -.37( .81), =.65 | (-1.95,1.21) | -.37(-.48,-.25) | -4.35(23.71), =.85 | -.03( .16), =.85 | (-.33, .28) | -.03(-.16, .10) |
| fluency | eas | grip | categories | 222 | 3.04(11.79), =.80 | .07( .26), =.80 | (-.45, .58) | .07(-.06, .20) | 1.33( .79), =.09 . | .87( .55), =.11 | (-.21,1.95) | .87( .84, .90) | -2.01(2.28), =.38 | -.12( .13), =.37 | (-.37, .13) | -.12(-.24, .02) |
| fluency | eas | grip | fas | 222 | -2.14(11.20), =.85 | -.04( .19), =.85 | (-.41, .33) | -.04(-.17, .10) | .59( .97), =.54 | .66(1.21), =.58 | (-1.70,3.03) | .66( .58, .73) | -1.73(2.65), =.51 | -.08( .12), =.51 | (-.31, .15) | -.08(-.21, .05) |
| fluid reasoning | eas | grip | block | 210 | 3.94(13.52), =.77 | .08( .29), =.77 | (-.48, .65) | .08(-.05, .22) | .44( .71), =.54 | .64(1.24), =.60 | (-1.78,3.06) | .64( .55, .71) | .07(2.20), =.98 | .00( .12), =.98 | (-.23, .24) | .00(-.13, .14) |
| mental status | eas | grip | mmse | 222 | -.10(3.04), =.97 | -.02( .50), =.97 | (-1.00, .97) | -.02(-.15, .12) | -.03( .18), =.86 | -.33(2.08), =.88 | (-4.41,3.76) | -.33(-.44,-.20) | .34( .49), =.50 | .09( .13), =.50 | (-.16, .33) | .09(-.05, .22) |
| perceptual speed | eas | grip | symbol | 221 | -6.69(18.32), =.71 | -.11( .29), =.71 | (-.67, .46) | -.11(-.24, .02) | 2.09(1.20), =.08 . | .92( .50), =.07 . | (-.06,1.91) | .93( .90, .94) | .43(2.60), =.87 | .02( .12), =.87 | (-.22, .27) | .02(-.11, .15) |
| semantic memory | eas | grip | bnt | 222 | -1.25(4.34), =.77 | -.11( .38), =.77 | (-.87, .64) | -.11(-.24, .02) | -.02( .20), =.91 | -.18(1.82), =.92 | (-3.76,3.39) | -.18(-.30,-.05) | -.29( .63), =.65 | -.06( .12), =.64 | (-.29, .18) | -.06(-.19, .08) |
| semantic memory | eas | grip | waisvocab | 222 | 6.82(19.57), =.73 | .12( .34), =.73 | (-.55, .79) | .12(-.01, .25) | -.01(1.25), =.99 | -.02(1.37), =.99 | (-2.69,2.66) | -.02(-.15, .12) | -3.58(4.03), =.38 | -.13( .14), =.37 | (-.42, .15) | -.13(-.26, .00) |
| short-term memory | eas | grip | digit\_tot | 222 | .85(4.79), =.86 | .04( .25), =.86 | (-.45, .53) | .04(-.09, .18) | .10( .33), =.75 | .28( .90), =.75 | (-1.48,2.05) | .28( .15, .40) | .14( .77), =.86 | .02( .11), =.86 | (-.20, .24) | .02(-.11, .15) |
| short-term memory | eas | grip | word\_im | 222 | -5.96(7.58), =.43 | -.26( .31), =.41 | (-.87, .35) | -.26(-.38,-.13) | .32( .50), =.52 | .39( .61), =.53 | (-.82,1.59) | .39( .27, .49) | 1.04(1.72), =.54 | .07( .12), =.54 | (-.17, .31) | .07(-.06, .20) |
| episodic memory | elsa | grip | word\_de | 3045 | .29( .26), =.27 | .04( .04), =.27 | (-.03, .11) | .04( .00, .08) | -.01( .00), =.12 | -.51( .40), =.21 | (-1.30, .28) | -.50(-.53,-.47) | .15( .12), =.22 | .03( .02), =.22 | (-.02, .07) | .03(-.01, .06) |
| short-term memory | elsa | grip | word\_im | 3043 | .13( .23), =.58 | .02( .04), =.58 | (-.05, .10) | .02(-.01, .06) | -.00( .00), =.12 | -.44( .34), =.20 | (-1.11, .23) | -.39(-.42,-.36) | .30( .12), =.01 \* | .06( .02), =.01 \* | ( .01, .11) | .06( .02, .09) |
| attention | hrs | grip | serial7 | 3288 | .82( .21), <.01 \*\*\* | .15( .04), <.01 \*\*\* | ( .08, .23) | .16( .12, .19) | .02( .01), <.01 \*\* | .30( .11), =.01 \*\* | ( .08, .52) | .31( .28, .34) | -.17( .12), =.17 | -.04( .03), =.17 | (-.09, .01) | -.04(-.07,-.00) |
| episodic memory | hrs | grip | word\_de | 3290 | 1.04( .23), <.01 \*\*\* | .15( .03), <.01 \*\*\* | ( .09, .21) | .15( .12, .18) | .00( .01), =.39 | .28( .35), =.42 | (-.40, .96) | .29( .26, .32) | .14( .12), =.22 | .03( .02), =.22 | (-.02, .07) | .03(-.01, .06) |
| mental status | hrs | grip | tics | 507 | .67(1.48), =.65 | --- | --- | .13( .04, .21) | .06( .06), =.31 | --- | --- | .11( .02, .20) | -1.11( .97), =.25 | --- | --- | -.10(-.18,-.01) |
| short-term memory | hrs | grip | word\_im | 3290 | .81( .20), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .07, .21) | .14( .11, .17) | .00( .00), =.85 | .08( .40), =.84 | (-.70, .85) | .08( .05, .12) | .25( .10), =.01 \* | .06( .02), =.01 \* | ( .01, .10) | .06( .02, .09) |
| fluency | ilse | grip | fluency | 252 | 9.48(13.28), =.47 | .07( .10), =.47 | (-.13, .27) | .07(-.05, .20) | .04( .15), =.80 | .19( .76), =.80 | (-1.30,1.69) | .19( .07, .31) | 13.29(5.00), =.01 \*\* | .21( .07), <.01 \*\* | ( .06, .35) | .21( .09, .32) |
| fluid reasoning | ilse | grip | spatial\_ab | 252 | 18.41(9.77), =.06 . | .18( .10), =.06 . | (-.01, .38) | .18( .06, .30) | .17( .14), =.22 | .41( .33), =.21 | (-.23,1.06) | .41( .30, .51) | -1.59(2.61), =.54 | -.04( .07), =.54 | (-.18, .09) | -.04(-.17, .08) |
| perceptual speed | ilse | grip | symbol | 252 | -14.22(16.99), =.40 | -.08( .10), =.41 | (-.27, .11) | -.08(-.20, .04) | -.04( .20), =.85 | -.07( .36), =.85 | (-.77, .63) | -.07(-.19, .06) | 3.40(4.14), =.41 | .06( .08), =.40 | (-.09, .22) | .07(-.06, .19) |
| semantic memory | ilse | grip | waisgeneral | 252 | 7.82(6.86), =.26 | .12( .11), =.25 | (-.09, .33) | .12(-.00, .24) | .01( .06), =.82 | .23(1.11), =.83 | (-1.94,2.41) | .22( .10, .34) | -.87(1.91), =.65 | -.04( .08), =.65 | (-.20, .12) | -.04(-.16, .09) |
| visual discrimination | ilse | grip | piccomp | 252 | 11.62(6.45), =.07 . | .22( .12), =.06 . | (-.01, .45) | .22( .10, .34) | .08( .10), =.43 | .43( .48), =.37 | (-.51,1.37) | .43( .32, .52) | 4.11(2.57), =.11 | .16( .09), =.09 . | (-.02, .34) | .16( .04, .28) |
| fluid reasoning | lasa | grip | raven | 800 | 2.65( .89), <.01 \*\* | .17( .05), <.01 \*\* | ( .06, .27) | .17( .10, .23) | .02( .01), =.02 \* | .93( .69), =.18 | (-.43,2.28) | .92( .91, .93) | .70( .31), =.03 \* | .07( .03), =.02 \* | ( .01, .14) | .08( .01, .14) |
| perceptual speed | lasa | grip | letter | 800 | 3.28(1.69), =.05 . | .10( .05), =.05 \* | ( .00, .20) | .10( .03, .17) | .03( .02), =.09 . | .61( .41), =.13 | (-.18,1.41) | .60( .55, .64) | .96( .39), =.01 \* | .09( .03), =.01 \* | ( .02, .15) | .09( .02, .16) |
| short-term memory | lasa | grip | word\_im | 800 | 1.76(1.54), =.25 | .07( .06), =.25 | (-.05, .20) | .07( .00, .14) | .00( .01), =.84 | .16( .80), =.84 | (-1.39,1.72) | .17( .11, .24) | 2.25( .53), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .08, .20) | .14( .07, .20) |
| attention | map | grip | digit\_f | 321 | 1.78(1.67), =.28 | .08( .08), =.28 | (-.07, .23) | .08(-.03, .19) | .04( .08), =.61 | .25( .51), =.62 | (-.74,1.25) | .25( .15, .35) | .05( .36), =.88 | .01( .05), =.88 | (-.09, .11) | .01(-.10, .12) |
| episodic memory | map | grip | bstory\_de | 321 | 1.82(1.79), =.31 | .10( .09), =.30 | (-.09, .28) | .09(-.01, .20) | -.08( .13), =.50 | -.55( .51), =.28 | (-1.54, .44) | -.56(-.63,-.48) | .41( .43), =.34 | .04( .05), =.34 | (-.05, .13) | .04(-.07, .15) |
| episodic memory | map | grip | logic\_de | 321 | -2.80(4.09), =.49 | -.06( .08), =.49 | (-.22, .11) | -.06(-.17, .05) | -.05( .18), =.77 | -.07( .23), =.77 | (-.51, .38) | -.07(-.17, .04) | .60( .60), =.32 | .04( .04), =.32 | (-.04, .13) | .04(-.06, .15) |
| episodic memory | map | grip | word\_de | 321 | -.57(1.68), =.73 | -.02( .07), =.73 | (-.17, .12) | -.02(-.13, .09) | -.03( .10), =.77 | -.12( .42), =.78 | (-.94, .71) | -.12(-.23,-.01) | -.12( .31), =.70 | -.02( .04), =.71 | (-.10, .07) | -.02(-.13, .09) |
| episodic memory | map | grip | word\_rec | 321 | .85(1.00), =.40 | .06( .07), =.38 | (-.07, .19) | .06(-.05, .17) | .03( .06), =.60 | .11( .21), =.60 | (-.31, .53) | .11( .00, .22) | -.07( .22), =.76 | -.02( .06), =.76 | (-.13, .09) | -.02(-.13, .09) |
| fluency | map | grip | categories | 321 | 1.41(7.82), =.86 | .01( .07), =.86 | (-.13, .15) | .01(-.10, .12) | .35( .38), =.35 | .25( .28), =.36 | (-.29, .80) | .25( .15, .35) | -.90(1.22), =.46 | -.04( .05), =.46 | (-.13, .06) | -.04(-.14, .07) |
| fluid reasoning | map | grip | matrices | 308 | 1.54(2.09), =.46 | .06( .08), =.45 | (-.09, .21) | .06(-.05, .17) | .25( .11), =.02 \* | .75( .12), <.01 \*\*\* | ( .51, .99) | .76( .70, .80) | -.20( .54), =.71 | -.02( .05), =.71 | (-.13, .09) | -.02(-.13, .09) |
| mental status | map | grip | mmse | 321 | 4.00(2.30), =.08 . | .17( .07), =.01 \* | ( .03, .31) | .17( .06, .28) | .30( .17), =.08 . | .69( .23), <.01 \*\* | ( .23,1.15) | .69( .63, .75) | .01( .41), =.98 | .00( .05), =.98 | (-.10, .10) | .00(-.11, .11) |
| perceptual speed | map | grip | num\_comp | 321 | 3.24(5.94), =.58 | .04( .07), =.58 | (-.10, .17) | .04(-.07, .15) | -.18( .31), =.56 | -.21( .35), =.54 | (-.89, .47) | -.21(-.31,-.10) | .67( .92), =.47 | .03( .04), =.47 | (-.05, .12) | .03(-.08, .14) |
| perceptual speed | map | grip | symbol | 321 | 16.04(9.44), =.09 . | .13( .07), =.07 . | (-.01, .27) | .13( .02, .23) | .60( .42), =.16 | .49( .32), =.13 | (-.14,1.12) | .49( .40, .57) | -.24(1.11), =.83 | -.01( .04), =.83 | (-.10, .08) | -.01(-.12, .10) |
| semantic memory | map | grip | bnt | 321 | 2.95(1.26), =.02 \* | .19( .05), <.01 \*\*\* | ( .09, .30) | .19( .09, .30) | .05( .03), =.05 \* | .73( .18), <.01 \*\*\* | ( .37,1.08) | .77( .72, .81) | .12( .15), =.42 | .03( .04), =.42 | (-.05, .12) | .03(-.08, .14) |
| semantic memory | map | grip | nart | 321 | 3.38(1.83), =.06 . | .12( .06), =.06 . | (-.00, .25) | .12( .01, .23) | .08( .07), =.23 | .38( .33), =.25 | (-.27,1.02) | .38( .28, .47) | -.14( .27), =.60 | -.03( .06), =.59 | (-.14, .08) | -.03(-.14, .08) |
| short-term memory | map | grip | bstory\_im | 321 | 2.15(1.55), =.17 | .14( .10), =.16 | (-.06, .34) | .14( .03, .25) | -.00( .10), =.96 | -.03( .64), =.96 | (-1.28,1.22) | -.03(-.14, .08) | .07( .37), =.85 | .01( .04), =.85 | (-.08, .09) | .01(-.10, .12) |
| short-term memory | map | grip | logic\_im | 321 | -5.23(3.88), =.18 | -.12( .09), =.17 | (-.29, .05) | -.12(-.23,-.01) | -.22( .17), =.19 | -.48( .38), =.22 | (-1.23, .28) | -.48(-.56,-.39) | .57( .67), =.40 | .04( .05), =.40 | (-.05, .13) | .04(-.07, .15) |
| short-term memory | map | grip | word\_im | 321 | -.25(3.08), =.93 | -.01( .08), =.93 | (-.17, .16) | -.01(-.12, .10) | -.13( .16), =.41 | -.34( .38), =.38 | (-1.10, .41) | -.34(-.43,-.24) | .95( .68), =.16 | .07( .05), =.16 | (-.03, .16) | .07(-.04, .18) |
| verbal comprehension | map | grip | ideas | 321 | 1.04( .56), =.06 . | .16( .05), <.01 \*\*\* | ( .07, .25) | .16( .05, .26) | .02( .04), =.54 | .10( .15), =.51 | (-.20, .40) | .10(-.01, .21) | -.11( .08), =.14 | -.05( .03), =.13 | (-.10, .01) | -.05(-.15, .06) |
| visual discrimination | map | grip | line | 321 | 1.74(2.12), =.41 | .06( .07), =.41 | (-.08, .19) | .06(-.05, .16) | -.06( .14), =.68 | -.18( .42), =.68 | (-1.00, .65) | -.18(-.28,-.07) | -.26( .51), =.60 | -.03( .05), =.60 | (-.12, .07) | -.03(-.13, .08) |
| working memory | map | grip | digit\_b | 321 | .58(2.02), =.77 | .02( .09), =.77 | (-.14, .19) | .02(-.08, .13) | .01( .10), =.95 | .03( .44), =.95 | (-.84, .90) | .03(-.08, .14) | .91( .34), =.01 \*\* | .13( .05), <.01 \*\* | ( .04, .22) | .13( .02, .23) |
| working memory | map | grip | digit\_o | 321 | .80(1.59), =.61 | .05( .10), =.61 | (-.14, .24) | .05(-.06, .16) | -.04( .08), =.64 | -.35( .78), =.66 | (-1.88,1.19) | -.35(-.44,-.25) | .00( .28), =.99 | .00( .04), =.99 | (-.09, .09) | .00(-.11, .11) |
| mental status | nuage | grip | mmms | 847 | 5.49(2.04), =.01 \*\* | .13( .05), =.01 \*\* | ( .04, .22) | .13( .06, .20) | .33( .23), =.16 | .28( .21), =.19 | (-.14, .70) | .28( .22, .34) | -.71( .47), =.13 | -.04( .02), =.13 | (-.08, .01) | -.04(-.10, .03) |
| mental status | nuage | grip | mmse | 847 | 2.28( .74), <.01 \*\* | .18( .06), <.01 \*\* | ( .07, .30) | .18( .12, .25) | .13( .11), =.23 | .30( .25), =.23 | (-.19, .79) | .30( .24, .36) | .02( .22), =.92 | .00( .03), =.92 | (-.05, .06) | .00(-.06, .07) |
| attention | octo | grip | digit\_f | 139 | -.29( .26), =.27 | -.15( .13), =.24 | (-.40, .10) | -.15(-.31, .01) | .00( .01), =.50 | .24( .36), =.51 | (-.47, .95) | .23( .07, .38) | -.07( .06), =.30 | -.07( .07), =.30 | (-.21, .06) | -.07(-.24, .09) |
| fluid reasoning | octo | grip | block | 139 | 3.62(1.22), <.01 \*\* | .30( .09), <.01 \*\*\* | ( .13, .47) | .30( .14, .45) | -.01( .03), =.74 | -.25(1.03), =.80 | (-2.26,1.76) | -.25(-.40,-.08) | .52( .24), =.03 \* | .14( .06), =.02 \* | ( .02, .26) | .14(-.03, .30) |
| perceptual speed | octo | grip | symbol | 138 | 4.32(1.88), =.02 \* | .24( .10), =.01 \* | ( .05, .43) | .24( .07, .39) | -.01( .06), =.85 | -.08( .44), =.86 | (-.94, .78) | -.08(-.24, .09) | .76( .46), =.09 . | .15( .09), =.08 . | (-.02, .32) | .15(-.02, .31) |
| short-term memory | octo | grip | prose\_im | 139 | 2.38( .78), <.01 \*\* | .35( .10), <.01 \*\*\* | ( .16, .54) | .35( .20, .49) | -.01( .05), =.79 | -.38(2.68), =.89 | (-5.63,4.87) | -.37(-.51,-.22) | .35( .25), =.16 | .14( .09), =.14 | (-.04, .32) | .14(-.03, .30) |
| working memory | octo | grip | digit\_b | 139 | .12( .23), =.60 | .06( .11), =.60 | (-.15, .26) | .06(-.11, .22) | .00( .01), =.68 | .20( .49), =.69 | (-.76,1.15) | .19( .03, .35) | -.16( .10), =.10 . | -.13( .07), =.08 . | (-.27, .02) | -.13(-.29, .04) |
| attention | satsa | grip | digit\_f | 299 | .92( .62), =.14 | .19( .12), =.12 | (-.05, .43) | .19( .08, .30) | .00( .00), =.61 | .40( .77), =.60 | (-1.11,1.92) | --- | .17( .25), =.49 | .04( .05), =.49 | (-.06, .13) | .04(-.07, .15) |
| fluid reasoning | satsa | grip | analogies | 299 | 1.99(1.84), =.28 | .13( .11), =.27 | (-.10, .35) | .13( .01, .24) | .01( .01), =.15 | .69( .53), =.19 | (-.35,1.73) | .67( .60, .73) | 2.35( .69), <.01 \*\*\* | .17( .05), <.01 \*\*\* | ( .07, .26) | .17( .06, .28) |
| fluid reasoning | satsa | grip | block | 298 | 13.31(3.74), <.01 \*\*\* | .40( .09), <.01 \*\*\* | ( .23, .58) | .40( .30, .49) | .03( .01), =.05 \* | .79( .44), =.07 . | (-.08,1.66) | .78( .73, .82) | 2.52( .90), <.01 \*\* | .14( .05), <.01 \*\* | ( .04, .23) | .12( .01, .23) |
| fluid reasoning | satsa | grip | rotate | 299 | 32.45(9.82), <.01 \*\*\* | .36( .09), <.01 \*\*\* | ( .18, .54) | .36( .25, .45) | -.01( .05), =.80 | -.13( .55), =.81 | (-1.20, .94) | -.13(-.24,-.02) | 6.04(3.15), =.06 . | .10( .05), =.05 . | (-.00, .20) | .10(-.02, .21) |
| mental status | satsa | grip | mmse | 299 | 2.17(1.12), =.05 . | .27( .13), =.04 \* | ( .01, .52) | .27( .16, .37) | .01( .01), =.31 | .34( .30), =.27 | (-.26, .93) | .33( .23, .43) | 1.04( .41), =.01 \* | .13( .05), =.01 \*\* | ( .03, .22) | .13( .02, .24) |
| perceptual speed | satsa | grip | symbol | 299 | 15.98(4.96), <.01 \*\*\* | .32( .09), <.01 \*\*\* | ( .14, .49) | .32( .21, .42) | .00( .02), =.92 | .04( .44), =.92 | (-.81, .90) | .04(-.07, .16) | 4.53(1.42), <.01 \*\*\* | .16( .05), <.01 \*\*\* | ( .06, .26) | .15( .03, .25) |
| semantic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| semantic memory | satsa | grip | synonyms | 299 | 5.13(2.75), =.06 . | .19( .10), =.05 . | (-.00, .38) | .19( .08, .30) | -.01( .01), =.37 | -.42( .51), =.41 | (-1.42, .58) | -.39(-.48,-.29) | .15( .55), =.79 | .01( .05), =.79 | (-.08, .10) | .01(-.10, .13) |
| short-term memory | satsa | grip | fig\_mem | 299 | 4.79(2.55), =.06 . | .24( .12), =.04 \* | ( .01, .46) | .24( .13, .34) | .01( .01), =.39 | .50( .50), =.32 | (-.49,1.49) | .50( .41, .58) | 1.91( .81), =.02 \* | .12( .05), =.02 \* | ( .02, .21) | .12( .00, .23) |
| working memory | satsa | grip | digit\_b | 299 | 1.36( .62), =.03 \* | .29( .13), =.02 \* | ( .04, .54) | .29( .18, .39) | .00( .00), =.75 | .36(1.13), =.75 | (-1.85,2.57) | --- | -.11( .26), =.67 | -.02( .05), =.67 | (-.11, .07) | -.02(-.13, .10) |

## female

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Cov(Levels) | Corr(Levels)Est | CI(Levels)Est | Corr(Levels)Comp | Cov(Slopes) | Corr(Slopes)Est | CI(Slopes)Est | Corr(Slopes)Comp | Cov(Residuals) | Corr(Resid)Est | CI(Resid)Est | Corr(Residuals)Comp |
| episodic memory | eas | grip | logic\_tot | 360 | -2.26(3.85), =.56 | -.09( .15), =.56 | (-.38, .21) | -.09(-.19, .02) | .06( .29), =.84 | .13( .66), =.84 | (-1.16,1.42) | .13( .03, .23) | .73( .84), =.39 | .08( .09), =.39 | (-.10, .27) | .08(-.02, .18) |
| executive function | eas | grip | trailsb | 362 | -25.61(42.55), =.55 | -.10( .18), =.55 | (-.45, .24) | -.10(-.21,-.00) | 8.76(4.43), =.05 \* | .82( .34), =.02 \* | ( .15,1.48) | .82( .78, .85) | 13.85(8.16), =.09 . | .15( .08), =.08 . | (-.02, .31) | .15( .04, .25) |
| fluency | eas | grip | categories | 363 | 2.88(4.99), =.56 | .08( .14), =.56 | (-.20, .36) | .08(-.02, .18) | .24( .43), =.58 | .21( .38), =.58 | (-.54, .96) | .21( .11, .31) | -.59( .70), =.40 | -.06( .07), =.40 | (-.21, .08) | -.06(-.16, .04) |
| fluency | eas | grip | fas | 360 | 12.14(8.12), =.14 | .22( .14), =.12 | (-.06, .49) | .22( .12, .31) | .22( .53), =.68 | .14( .35), =.69 | (-.54, .83) | .14( .04, .24) | .19(1.06), =.86 | .02( .09), =.86 | (-.16, .19) | .02(-.09, .12) |
| fluid reasoning | eas | grip | block | 351 | 6.94(5.97), =.24 | .18( .15), =.23 | (-.12, .48) | .18( .08, .28) | .78( .44), =.07 . | .55( .28), =.05 \* | ( .00,1.10) | .55( .48, .62) | .25( .99), =.80 | .02( .10), =.80 | (-.17, .22) | .02(-.08, .13) |
| mental status | eas | grip | mmse | 363 | 1.25(1.15), =.28 | .22( .20), =.27 | (-.17, .62) | .23( .12, .32) | -.04( .10), =.68 | -.39(1.06), =.71 | (-2.46,1.68) | -.41(-.50,-.32) | -.01( .21), =.98 | -.00( .10), =.98 | (-.20, .20) | -.00(-.11, .10) |
| perceptual speed | eas | grip | symbol | 363 | 18.82(8.86), =.03 \* | .28( .12), =.02 \* | ( .04, .53) | .28( .18, .37) | 2.04( .58), <.01 \*\*\* | .84( .20), <.01 \*\*\* | ( .44,1.24) | .84( .81, .87) | -.50( .99), =.61 | -.04( .08), =.61 | (-.20, .12) | -.04(-.14, .06) |
| semantic memory | eas | grip | bnt | 363 | 1.75(1.60), =.28 | .16( .15), =.26 | (-.12, .45) | .17( .06, .26) | -.08( .13), =.55 | -.43( .82), =.59 | (-2.03,1.17) | -.44(-.52,-.35) | .20( .22), =.37 | .06( .07), =.38 | (-.08, .21) | .06(-.04, .17) |
| semantic memory | eas | grip | waisvocab | 363 | 6.49(7.71), =.40 | .12( .15), =.40 | (-.16, .41) | .12( .02, .22) | .19( .46), =.68 | .25( .64), =.69 | (-1.00,1.51) | .25( .15, .35) | -.37(1.51), =.80 | -.03( .10), =.80 | (-.23, .18) | -.03(-.13, .08) |
| short-term memory | eas | grip | digit\_tot | 363 | -.45(2.25), =.84 | -.03( .15), =.84 | (-.32, .26) | -.03(-.13, .07) | .46( .17), =.01 \*\* | .83( .27), <.01 \*\* | ( .31,1.35) | .83( .79, .86) | -.12( .30), =.69 | -.03( .08), =.69 | (-.19, .13) | -.03(-.13, .07) |
| short-term memory | eas | grip | word\_im | 363 | 2.33(4.21), =.58 | .10( .19), =.57 | (-.26, .47) | .10( .00, .21) | -.05( .32), =.88 | -.09( .60), =.88 | (-1.27,1.08) | -.09(-.19, .01) | .97( .73), =.18 | .12( .09), =.18 | (-.05, .29) | .12( .02, .22) |
| episodic memory | elsa | grip | word\_de | 3393 | .65( .17), <.01 \*\*\* | .13( .03), <.01 \*\*\* | ( .06, .19) | .13( .09, .16) | .00( .00), =.99 | -.01( .66), =.99 | (-1.31,1.29) | .00(-.03, .03) | .09( .09), =.31 | .02( .02), =.31 | (-.02, .07) | .02(-.01, .06) |
| short-term memory | elsa | grip | word\_im | 3391 | .48( .16), <.01 \*\* | .12( .04), <.01 \*\* | ( .04, .19) | .12( .08, .15) | .00( .00), =.92 | -.03( .29), =.92 | (-.60, .54) | .00(-.03, .03) | .05( .08), =.52 | .01( .02), =.52 | (-.03, .06) | .01(-.02, .05) |
| attention | hrs | grip | serial7 | 4604 | .13( .13), =.32 | .03( .03), =.32 | (-.03, .08) | .03(-.00, .06) | .01( .00), <.01 \*\*\* | .45( .13), <.01 \*\*\* | ( .20, .70) | .47( .44, .49) | -.08( .06), =.18 | -.03( .02), =.18 | (-.07, .01) | -.03(-.06, .00) |
| episodic memory | hrs | grip | word\_de | 4612 | .49( .15), <.01 \*\*\* | .09( .03), <.01 \*\*\* | ( .04, .15) | .09( .06, .12) | .00( .00), =.92 | .04( .41), =.92 | (-.75, .84) | .00(-.03, .03) | .17( .07), =.01 \* | .05( .02), =.01 \* | ( .01, .08) | .05( .02, .08) |
| mental status | hrs | grip | tics | 641 | 2.48(1.40), =.08 . | --- | --- | .16( .08, .24) | .10( .06), =.08 . | --- | --- | .16( .08, .23) | -.40( .46), =.39 | --- | --- | -.04(-.12, .04) |
| short-term memory | hrs | grip | word\_im | 4612 | .58( .12), <.01 \*\*\* | .14( .03), <.01 \*\*\* | ( .09, .20) | .14( .12, .17) | .00( .00), =.46 | .32( .51), =.53 | (-.68,1.32) | .28( .25, .30) | .09( .06), =.14 | .03( .02), =.14 | (-.01, .07) | .03(-.00, .06) |
| fluency | ilse | grip | fluency | 225 | 13.64(14.92), =.36 | .10( .11), =.35 | (-.11, .32) | .10(-.03, .23) | .24( .27), =.38 | .58( .72), =.43 | (-.84,2.00) | .57( .48, .66) | 9.98(5.52), =.07 . | .15( .08), =.06 . | (-.01, .31) | .15( .02, .28) |
| fluid reasoning | ilse | grip | spatial\_ab | 225 | .80(11.07), =.94 | .01( .10), =.94 | (-.19, .20) | .01(-.12, .14) | .08( .16), =.59 | .37( .79), =.64 | (-1.17,1.91) | .37( .26, .48) | -.37(3.83), =.92 | -.01( .09), =.92 | (-.18, .16) | -.01(-.14, .12) |
| perceptual speed | ilse | grip | symbol | 225 | -48.56(20.52), =.02 \* | -.25( .09), =.01 \*\* | (-.43,-.06) | -.25(-.37,-.12) | .12( .17), =.48 | .21( .30), =.48 | (-.38, .80) | .21( .08, .33) | -.64(3.70), =.86 | -.01( .07), =.86 | (-.16, .13) | -.01(-.14, .12) |
| semantic memory | ilse | grip | waisgeneral | 225 | 2.20(7.03), =.75 | .03( .09), =.75 | (-.15, .21) | .03(-.10, .16) | .11( .10), =.27 | .42( .42), =.32 | (-.40,1.23) | .43( .31, .53) | -1.78(1.78), =.32 | -.08( .08), =.31 | (-.23, .07) | -.08(-.21, .05) |
| visual discrimination | ilse | grip | piccomp | 225 | 2.07(6.71), =.76 | .04( .12), =.76 | (-.20, .27) | .04(-.09, .17) | .07( .12), =.57 | .26( .48), =.59 | (-.67,1.19) | .26( .13, .38) | .36(2.76), =.90 | .01( .08), =.90 | (-.15, .17) | .01(-.12, .14) |
| fluid reasoning | lasa | grip | raven | 782 | .29( .66), =.66 | .03( .07), =.66 | (-.10, .16) | .03(-.04, .10) | .00( .01), =.77 | .32(1.66), =.85 | (-2.93,3.57) | .33( .27, .39) | .09( .24), =.70 | .01( .03), =.70 | (-.05, .07) | .01(-.06, .08) |
| perceptual speed | lasa | grip | letter | 782 | .70(1.29), =.59 | .03( .06), =.59 | (-.08, .15) | .03(-.04, .10) | .01( .01), =.40 | .40( .93), =.67 | (-1.43,2.22) | .41( .35, .47) | .65( .23), <.01 \*\* | .08( .03), <.01 \*\* | ( .02, .13) | .08( .01, .15) |
| short-term memory | lasa | grip | word\_im | 782 | 1.75(1.09), =.11 | .11( .07), =.10 | (-.02, .25) | .11( .04, .18) | .00( .01), =.90 | .23(2.09), =.91 | (-3.86,4.32) | .15( .09, .22) | 1.68( .38), <.01 \*\*\* | .12( .03), <.01 \*\*\* | ( .07, .17) | .12( .05, .19) |
| attention | map | grip | digit\_f | 935 | .27( .66), =.68 | .02( .04), =.68 | (-.07, .10) | .02(-.05, .08) | .06( .05), =.16 | .46( .33), =.16 | (-.18,1.11) | .47( .42, .52) | .15( .16), =.36 | .02( .03), =.36 | (-.03, .08) | .03(-.04, .09) |
| episodic memory | map | grip | bstory\_de | 935 | .32( .64), =.61 | .03( .06), =.61 | (-.08, .14) | .03(-.04, .09) | .06( .06), =.31 | .26( .26), =.32 | (-.25, .77) | .26( .20, .32) | -.08( .20), =.68 | -.01( .03), =.68 | (-.07, .04) | -.01(-.08, .05) |
| episodic memory | map | grip | logic\_de | 935 | .14(1.40), =.92 | .00( .04), =.92 | (-.08, .09) | .00(-.06, .07) | .11( .10), =.30 | .21( .20), =.28 | (-.17, .60) | .21( .15, .27) | .50( .31), =.10 | .05( .03), =.10 | (-.01, .10) | .05(-.02, .11) |
| episodic memory | map | grip | word\_de | 935 | 2.66( .69), <.01 \*\*\* | .17( .04), <.01 \*\*\* | ( .09, .25) | .17( .10, .23) | .08( .04), =.05 . | .46( .26), =.07 . | (-.04, .97) | .46( .41, .51) | .02( .16), =.88 | .00( .03), =.88 | (-.05, .06) | .00(-.06, .07) |
| episodic memory | map | grip | word\_rec | 935 | 1.02( .28), <.01 \*\*\* | .15( .04), <.01 \*\*\* | ( .07, .23) | .15( .09, .21) | .01( .02), =.49 | .45(1.50), =.76 | (-2.49,3.39) | .51( .46, .55) | -.04( .06), =.50 | -.02( .02), =.50 | (-.07, .03) | -.02(-.08, .05) |
| fluency | map | grip | categories | 935 | 6.22(2.87), =.03 \* | .09( .04), =.03 \* | ( .01, .18) | .09( .03, .16) | .22( .18), =.22 | .23( .19), =.23 | (-.15, .60) | .23( .17, .29) | 1.29( .59), =.03 \* | .06( .03), =.03 \* | ( .01, .12) | .06(-.00, .12) |
| fluid reasoning | map | grip | matrices | 920 | 1.72( .92), =.06 . | .10( .05), =.06 . | (-.00, .21) | .10( .04, .17) | .07( .06), =.27 | .30( .27), =.26 | (-.23, .84) | .30( .24, .36) | -.10( .25), =.69 | -.01( .03), =.69 | (-.07, .05) | -.01(-.08, .05) |
| mental status | map | grip | mmse | 935 | .31( .55), =.57 | .03( .06), =.57 | (-.08, .15) | .03(-.03, .10) | .12( .07), =.07 . | .55( .23), =.01 \* | ( .11,1.00) | .55( .51, .60) | .12( .15), =.43 | .02( .03), =.43 | (-.03, .07) | .02(-.04, .09) |
| perceptual speed | map | grip | num\_comp | 934 | 1.98(2.50), =.43 | .04( .04), =.43 | (-.05, .12) | .04(-.03, .10) | -.02( .13), =.88 | -.04( .24), =.88 | (-.51, .43) | -.04(-.10, .03) | .57( .46), =.22 | .03( .03), =.22 | (-.02, .08) | .03(-.03, .10) |
| perceptual speed | map | grip | symbol | 934 | 6.67(3.50), =.06 . | .09( .04), =.06 . | (-.00, .17) | .09( .02, .15) | .07( .22), =.77 | .06( .22), =.77 | (-.37, .50) | .06( .00, .13) | -.19( .57), =.74 | -.01( .03), =.74 | (-.06, .04) | -.01(-.07, .06) |
| semantic memory | map | grip | bnt | 934 | .84( .42), =.05 \* | .09( .04), =.05 \* | ( .00, .17) | .09( .02, .15) | .00( .03), =.91 | .02( .20), =.91 | (-.37, .41) | .02(-.04, .08) | -.03( .08), =.70 | -.01( .03), =.70 | (-.07, .04) | -.01(-.07, .05) |
| semantic memory | map | grip | nart | 932 | -.17( .73), =.82 | -.01( .04), =.82 | (-.09, .07) | -.01(-.07, .05) | .03( .03), =.30 | .26( .27), =.33 | (-.27, .80) | .27( .21, .33) | -.08( .11), =.49 | -.02( .03), =.49 | (-.08, .04) | -.02(-.08, .04) |
| short-term memory | map | grip | bstory\_im | 935 | -.14( .54), =.80 | -.01( .06), =.80 | (-.13, .10) | -.01(-.08, .05) | .02( .05), =.69 | .11( .28), =.69 | (-.44, .66) | .11( .05, .17) | -.08( .18), =.66 | -.01( .03), =.66 | (-.07, .04) | -.01(-.08, .05) |
| short-term memory | map | grip | logic\_im | 935 | -.09(1.40), =.95 | -.00( .04), =.95 | (-.09, .09) | -.00(-.07, .06) | .16( .09), =.08 . | .37( .21), =.08 . | (-.05, .79) | .37( .31, .42) | .02( .31), =.94 | .00( .03), =.94 | (-.05, .06) | .00(-.06, .07) |
| short-term memory | map | grip | word\_im | 935 | 5.17(1.34), <.01 \*\*\* | .17( .04), <.01 \*\*\* | ( .09, .25) | .17( .11, .23) | .26( .10), =.01 \*\* | .53( .20), =.01 \*\* | ( .13, .94) | .53( .49, .58) | .21( .32), =.51 | .02( .03), =.51 | (-.04, .08) | .02(-.05, .08) |
| verbal comprehension | map | grip | ideas | 935 | .19( .21), =.37 | .05( .06), =.37 | (-.06, .17) | .05(-.01, .12) | .01( .02), =.56 | .15( .26), =.56 | (-.36, .67) | .15( .09, .22) | .03( .06), =.63 | .01( .03), =.63 | (-.04, .07) | .01(-.05, .08) |
| visual discrimination | map | grip | line | 934 | 2.17(1.05), =.04 \* | .11( .05), =.04 \* | ( .01, .21) | .11( .04, .17) | .08( .07), =.30 | .74(1.13), =.51 | (-1.47,2.95) | .73( .70, .76) | .24( .23), =.29 | .03( .03), =.29 | (-.02, .08) | .03(-.04, .09) |
| working memory | map | grip | digit\_b | 935 | 1.18( .67), =.08 . | .08( .04), =.07 . | (-.01, .17) | .08( .02, .14) | .05( .04), =.26 | .31( .28), =.27 | (-.24, .85) | .31( .25, .36) | .38( .16), =.02 \* | .07( .03), =.02 \* | ( .01, .12) | .07( .00, .13) |
| working memory | map | grip | digit\_o | 935 | .59( .54), =.27 | .06( .05), =.27 | (-.05, .17) | .06(-.00, .12) | .09( .04), =.03 \* | .60( .31), =.05 . | (-.00,1.20) | .60( .55, .64) | -.01( .14), =.94 | -.00( .03), =.94 | (-.06, .05) | -.00(-.07, .06) |
| mental status | nuage | grip | mmms | 934 | 1.64(1.87), =.38 | .04( .05), =.38 | (-.05, .14) | .04(-.02, .11) | .40( .28), =.15 | .28( .16), =.09 . | (-.04, .59) | .28( .22, .34) | .39( .41), =.34 | .02( .02), =.34 | (-.02, .07) | .02(-.04, .09) |
| mental status | nuage | grip | mmse | 934 | .86( .65), =.18 | .08( .06), =.20 | (-.04, .20) | .08( .02, .14) | .05( .10), =.60 | .16( .33), =.62 | (-.48, .80) | .16( .10, .22) | -.02( .19), =.92 | -.00( .02), =.92 | (-.05, .05) | -.00(-.07, .06) |
| attention | octo | grip | digit\_f | 275 | -.07( .12), =.53 | -.06( .09), =.53 | (-.23, .12) | -.06(-.17, .06) | .00( .00), =.70 | .13( .33), =.70 | (-.52, .78) | .11(-.01, .23) | .04( .04), =.37 | .04( .05), =.38 | (-.05, .14) | .05(-.07, .16) |
| fluid reasoning | octo | grip | block | 274 | 3.10( .84), <.01 \*\*\* | .31( .08), <.01 \*\*\* | ( .15, .47) | .31( .20, .41) | .05( .02), <.01 \*\* | .76( .28), =.01 \*\* | ( .21,1.32) | .76( .71, .81) | .18( .19), =.35 | .05( .05), =.35 | (-.05, .15) | .05(-.07, .17) |
| perceptual speed | octo | grip | symbol | 271 | 2.62(1.18), =.03 \* | .18( .08), =.02 \* | ( .02, .34) | .18( .06, .29) | .01( .02), =.59 | .17( .31), =.58 | (-.43, .77) | .16( .04, .27) | .72( .32), =.02 \* | .12( .05), =.02 \* | ( .02, .22) | .12( .00, .24) |
| short-term memory | octo | grip | prose\_im | 272 | .68( .38), =.08 . | .14( .07), =.07 . | (-.01, .28) | .14( .02, .25) | .01( .01), =.31 | .37( .35), =.29 | (-.31,1.05) | .36( .25, .46) | .14( .16), =.39 | .06( .07), =.38 | (-.07, .19) | .06(-.06, .18) |
| working memory | octo | grip | digit\_b | 275 | -.00( .13), =.98 | -.00( .10), =.98 | (-.20, .20) | -.00(-.12, .12) | -.00( .00), =.40 | -.44( .64), =.49 | (-1.69, .81) | -.49(-.57,-.39) | .06( .06), =.35 | .05( .05), =.35 | (-.05, .14) | .05(-.07, .16) |
| attention | satsa | grip | digit\_f | 409 | -.04( .32), =.90 | -.01( .10), =.90 | (-.21, .18) | -.01(-.11, .08) | .00( .00), =.38 | .59( .78), =.45 | (-.94,2.12) | --- | .09( .12), =.44 | .02( .03), =.44 | (-.04, .09) | .03(-.07, .12) |
| fluid reasoning | satsa | grip | analogies | 409 | .08( .96), =.93 | .01( .10), =.93 | (-.19, .21) | .01(-.09, .11) | .01( .00), =.18 | .41( .31), =.18 | (-.19,1.02) | .45( .36, .52) | 1.24( .43), <.01 \*\* | .12( .04), <.01 \*\* | ( .04, .19) | .12( .02, .21) |
| fluid reasoning | satsa | grip | block | 409 | 4.99(2.09), =.02 \* | .22( .09), =.01 \* | ( .05, .40) | .22( .13, .31) | .00( .01), =.68 | .15( .36), =.68 | (-.55, .85) | .16( .07, .26) | 2.10( .61), <.01 \*\*\* | .14( .04), <.01 \*\*\* | ( .06, .21) | .13( .04, .23) |
| fluid reasoning | satsa | grip | rotate | 409 | 7.00(5.21), =.18 | .14( .10), =.17 | (-.06, .34) | .14( .04, .23) | .01( .03), =.65 | .31( .69), =.65 | (-1.03,1.66) | .33( .24, .41) | 4.87(2.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .10( .00, .19) |
| mental status | satsa | grip | mmse | 411 | .18( .63), =.77 | .06( .19), =.77 | (-.32, .43) | .06(-.04, .15) | .01( .01), =.34 | .29( .28), =.29 | (-.25, .84) | .28( .19, .37) | 1.08( .30), <.01 \*\*\* | .13( .04), <.01 \*\*\* | ( .06, .20) | .13( .04, .23) |
| perceptual speed | satsa | grip | symbol | 409 | 8.61(3.14), =.01 \*\* | .26( .09), <.01 \*\* | ( .09, .44) | .26( .17, .35) | .02( .01), =.11 | .46( .24), =.05 \* | ( .00, .93) | .47( .39, .54) | 2.51(1.00), =.01 \* | .10( .04), =.01 \* | ( .02, .18) | .11( .02, .21) |
| semantic memory | satsa | grip | information | 410 | 2.57(2.39), =.28 | .10( .10), =.28 | (-.08, .29) | .10( .01, .20) | .03( .01), =.03 \* | .65( .25), =.01 \*\* | ( .16,1.14) | .64( .58, .69) | .85( .57), =.14 | .05( .04), =.13 | (-.02, .12) | .05(-.04, .15) |
| semantic memory | satsa | grip | synonyms | 409 | 1.86(1.41), =.19 | .12( .09), =.18 | (-.05, .29) | .12( .02, .21) | .00( .01), =.52 | .26( .42), =.53 | (-.56,1.08) | .29( .20, .38) | .63( .38), =.10 . | .06( .04), =.10 . | (-.01, .14) | .06(-.03, .16) |
| short-term memory | satsa | grip | fig\_mem | 409 | .30(1.20), =.80 | .02( .10), =.80 | (-.17, .21) | .02(-.07, .12) | .00( .01), =.77 | .12( .41), =.76 | (-.67, .92) | .12( .02, .21) | 1.60( .53), <.01 \*\* | .13( .04), <.01 \*\* | ( .05, .22) | .13( .03, .22) |
| working memory | satsa | grip | digit\_b | 409 | .45( .40), =.26 | .13( .12), =.26 | (-.10, .36) | .13( .03, .22) | .00( .00), =.29 | .31( .28), =.26 | (-.23, .85) | .29( .20, .38) | .25( .18), =.16 | .05( .04), =.16 | (-.02, .12) | .06(-.04, .16) |

# Session Information

For the sake of documentation and reproducibility, the current report was rendered on a system using the following software.

Report rendered by koval\_000 at 2016-12-05, 14:21 -0500

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] knitr\_1.14 ggplot2\_2.2.0 IalsaSynthesis\_0.1.8.9000 MplusAutomation\_0.6-4   
[5] magrittr\_1.5   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 formatR\_1.4 plyr\_1.8.4 highr\_0.6 tools\_3.3.1 boot\_1.3-18   
 [7] digest\_0.6.10 evaluate\_0.10 tibble\_1.2 gtable\_0.2.0 lattice\_0.20-34 texreg\_1.36.7   
[13] DBI\_0.5-1 yaml\_2.1.13 proto\_0.3-10 coda\_0.18-1 dplyr\_0.5.0 stringr\_1.1.0   
[19] htmlwidgets\_0.7 grid\_3.3.1 DT\_0.2 data.table\_1.9.6 R6\_2.2.0 rmarkdown\_1.1   
[25] gsubfn\_0.6-6 pander\_0.6.0 tidyr\_0.6.0 reshape2\_1.4.1 readr\_1.0.0 scales\_0.4.1   
[31] htmltools\_0.3.5 rsconnect\_0.5 assertthat\_0.1 testit\_0.5 colorspace\_1.2-7 xtable\_1.8-2   
[37] stringi\_1.1.2 lazyeval\_0.2.0 munsell\_0.4.3 chron\_2.3-47