BISR: pulmonary

Date: 2016-11-15

## 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

# 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 | fev | digit\_f | 351 | .05( .05), =.33 | --- | --- | .07(-.04, .17) | .00( .00), =.31 | --- | --- | .77( .73, .81) | -.00( .01), =.79 | --- | --- | -.01(-.12, .09) |
| attention | octo | pef | digit\_f | 138 | -7.21(10.70), =.50 | -.09( .13), =.50 | (-.34, .17) | -.09(-.25, .08) | .36( .19), =.05 . | .63( .17), <.01 \*\*\* | ( .29, .96) | .62( .51, .71) | .45(2.34), =.85 | .01( .06), =.85 | (-.10, .12) | .01(-.16, .18) |
| attention | satsa | fev | digit\_f | 299 | .07( .04), =.12 | .15( .09), =.11 | (-.03, .33) | .15( .04, .26) | .00( .00), =.75 | .20( .61), =.75 | (-1.00,1.40) | --- | .01( .01), =.36 | .05( .05), =.36 | (-.06, .15) | .14( .02, .24) |
| attention | hrs | pef | serial7 | 3287 | 13.68(3.34), <.01 \*\*\* | .16( .04), <.01 \*\*\* | ( .08, .24) | .16( .13, .19) | .15( .09), =.10 . | .21( .13), =.10 . | (-.04, .47) | .21( .18, .25) | 2.17(1.87), =.25 | .03( .03), =.24 | (-.02, .09) | .03(-.00, .07) |
| episodic memory | map | fev | bstory\_de | 351 | .02( .07), =.73 | --- | --- | .03(-.07, .14) | .00( .00), =.62 | --- | --- | .64( .57, .70) | -.01( .02), =.53 | --- | --- | -.03(-.13, .08) |
| episodic memory | satsa | fev | information | 299 | .35( .27), =.20 | .11( .08), =.18 | (-.05, .26) | .11(-.01, .22) | .00( .00), =.92 | -.03( .30), =.93 | (-.62, .57) | --- | .09( .04), =.03 \* | .11( .05), =.03 \* | ( .01, .20) | .11(-.01, .22) |
| episodic memory | map | fev | logic\_de | 351 | .20( .12), =.11 | --- | --- | .11( .01, .22) | -.01( .01), =.35 | --- | --- | -.38(-.47,-.29) | -.00( .02), =.88 | --- | --- | -.01(-.11, .10) |
| episodic memory | eas | pef | logic\_tot | 72 | -120.30(194.44), =.54 | -.20( .34), =.56 | (-.86, .47) | -.20(-.41, .03) | 5.46(7.82), =.48 | .67(1.07), =.53 | (-1.43,2.77) | .67( .52, .78) | 17.12(36.61), =.64 | .08( .17), =.64 | (-.25, .41) | .08(-.16, .31) |
| fluency | nas | fev | animals | 1131 | -1.01( .81), =.21 | --- | --- | -.06(-.12,-.00) | -.00( .00), =.89 | --- | --- | -.04(-.09, .02) | .15( .14), =.30 | --- | --- | .03(-.03, .09) |
| fluency | eas | pef | categories | 72 | -152.56(325.26), =.64 | -.17( .35), =.63 | (-.85, .52) | -.17(-.38, .07) | -1.41(14.54), =.92 | -.11(1.11), =.92 | (-2.29,2.06) | -.11(-.34, .12) | 14.05(48.44), =.77 | .05( .18), =.77 | (-.31, .41) | .05(-.18, .28) |
| fluency | map | fev | categories | 351 | .67( .28), =.02 \* | --- | --- | .18( .08, .28) | .01( .01), =.51 | --- | --- | .48( .40, .56) | .03( .05), =.52 | --- | --- | .03(-.07, .13) |
| fluency | eas | pef | fas | 72 | -84.00(457.25), =.85 | -.07( .40), =.85 | (-.86, .71) | -.08(-.30, .16) | -6.28(19.83), =.75 | -.66(1.85), =.72 | (-4.29,2.98) | -.66(-.77,-.50) | -1.30(74.41), =.99 | -.00( .25), =.99 | (-.50, .49) | -.00(-.24, .23) |
| fluid reasoning | satsa | fev | analogies | 299 | .15( .14), =.29 | .11( .10), =.29 | (-.09, .31) | .11(-.00, .22) | .00( .00), =.94 | -.04( .62), =.95 | (-1.27,1.18) | --- | .04( .04), =.26 | .06( .05), =.25 | (-.04, .16) | .06(-.05, .17) |
| fluid reasoning | eas | pef | block | 72 | -113.69(321.74), =.72 | -.15( .44), =.72 | (-1.01, .70) | -.15(-.37, .08) | .31(15.23), =.98 | .12(6.25), =.98 | (-12.13,12.38) | .13(-.11, .35) | 6.46(46.91), =.89 | .02( .16), =.89 | (-.29, .33) | .02(-.21, .25) |
| fluid reasoning | octo | pef | block | 136 | 158.68(59.03), =.01 \*\* | .30( .11), <.01 \*\* | ( .10, .51) | .30( .14, .45) | 1.05( .81), =.19 | .75( .17), <.01 \*\*\* | ( .41,1.08) | .75( .66, .81) | 19.93(11.14), =.07 . | .11( .06), =.07 . | (-.01, .24) | .11(-.06, .28) |
| fluid reasoning | satsa | fev | block | 299 | .62( .25), =.01 \* | .20( .08), =.01 \*\* | ( .05, .35) | .20( .09, .30) | .00( .00), =.49 | .14( .21), =.49 | (-.27, .56) | --- | .01( .05), =.89 | .01( .05), =.89 | (-.10, .11) | .02(-.10, .13) |
| fluid reasoning | nas | fev | fig\_copy | 1131 | 3.13( .97), <.01 \*\*\* | --- | --- | .18( .13, .24) | .01( .01), =.09 . | --- | --- | .52( .47, .56) | -.60( .20), <.01 \*\* | --- | --- | -.09(-.15,-.04) |
| fluid reasoning | map | fev | matrices | 351 | .17( .08), =.03 \* | --- | --- | .17( .07, .27) | .00( .00), =.29 | --- | --- | .65( .58, .70) | -.01( .02), =.60 | --- | --- | -.02(-.13, .08) |
| fluid reasoning | lasa | pef | raven | 800 | 44.79(11.81), <.01 \*\*\* | .18( .05), <.01 \*\*\* | ( .09, .27) | .18( .12, .25) | .19( .06), <.01 \*\* | .54( .19), <.01 \*\* | ( .17, .92) | .56( .51, .60) | 3.44(2.98), =.25 | .03( .03), =.25 | (-.02, .09) | .03(-.04, .10) |
| fluid reasoning | satsa | fev | rotate | 298 | 1.50( .69), =.03 \* | .19( .08), =.02 \* | ( .03, .35) | .19( .08, .30) | .00( .00), =.73 | .14( .38), =.72 | (-.60, .87) | --- | .06( .15), =.69 | .02( .05), =.69 | (-.08, .11) | .02(-.10, .13) |
| mental status | eas | pef | mmse | 72 | 3.42(39.86), =.93 | .05( .62), =.93 | (-1.17,1.28) | .05(-.18, .28) | 1.42(2.61), =.59 | .90(1.11), =.42 | (-1.29,3.08) | .91( .85, .94) | 6.43(8.88), =.47 | .13( .19), =.47 | (-.23, .50) | .13(-.10, .35) |
| mental status | map | fev | mmse | 351 | .03( .06), =.67 | --- | --- | .03(-.07, .14) | -.00( .01), =.46 | --- | --- | -.39(-.48,-.30) | .01( .01), =.69 | --- | --- | .02(-.08, .12) |
| mental status | nas | fev | mmse | 1131 | .70( .28), =.01 \* | --- | --- | .18( .12, .23) | -.00( .00), =.74 | --- | --- | -.12(-.18,-.07) | -.05( .06), =.42 | --- | --- | -.02(-.08, .04) |
| mental status | satsa | fev | mmse | 299 | .12( .09), =.19 | .16( .12), =.18 | (-.08, .40) | .16( .05, .27) | .00( .00), =.28 | .35( .30), =.24 | (-.24, .94) | --- | .02( .02), =.29 | .05( .05), =.28 | (-.04, .14) | .05(-.06, .16) |
| mental status | hrs | pef | tics | 535 | 8.15(6.79), =.23 | --- | --- | .16( .08, .24) | -.29( .29), =.32 | --- | --- | -.13(-.21,-.05) | .44(3.30), =.90 | --- | --- | .01(-.08, .09) |
| perceptual speed | lasa | pef | letter | 800 | 79.73(21.48), <.01 \*\*\* | .16( .04), <.01 \*\*\* | ( .08, .24) | .16( .09, .23) | .16( .11), =.13 | .18( .12), =.13 | (-.05, .42) | .18( .12, .25) | 14.97(3.66), <.01 \*\*\* | .12( .03), <.01 \*\*\* | ( .07, .18) | .12( .05, .19) |
| perceptual speed | map | fev | num\_comp | 351 | .21( .21), =.32 | --- | --- | .07(-.04, .17) | -.01( .01), =.31 | --- | --- | -.76(-.80,-.72) | -.01( .04), =.87 | --- | --- | -.01(-.11, .10) |
| perceptual speed | nas | fev | pat\_comp | 1131 | -.03( .28), =.90 | --- | --- | -.01(-.07, .05) | -.00( .00), =.24 | --- | --- | -.34(-.39,-.29) | .04( .05), =.44 | --- | --- | .03(-.03, .08) |
| perceptual speed | eas | pef | symbol | 72 | 6.90(344.49), =.98 | .01( .36), =.98 | (-.69, .71) | .01(-.22, .24) | 1.26(13.53), =.93 | .08( .85), =.92 | (-1.59,1.75) | .08(-.15, .31) | -23.96(53.19), =.65 | -.08( .18), =.66 | (-.44, .28) | -.08(-.31, .15) |
| perceptual speed | map | fev | symbol | 351 | .85( .32), =.01 \*\* | --- | --- | .20( .09, .29) | -.00( .02), =.97 | --- | --- | -.04(-.15, .06) | .04( .04), =.38 | --- | --- | .04(-.07, .14) |
| perceptual speed | octo | pef | symbol | 133 | 244.57(90.32), =.01 \*\* | .31( .10), <.01 \*\* | ( .11, .51) | .31( .15, .46) | 3.13(1.56), =.04 \* | .73( .15), <.01 \*\*\* | ( .44,1.02) | .73( .64, .80) | -9.63(18.28), =.60 | -.04( .08), =.60 | (-.19, .11) | -.04(-.21, .13) |
| perceptual speed | satsa | fev | symbol | 299 | .96( .41), =.02 \* | .20( .08), =.01 \* | ( .04, .36) | .20( .09, .31) | .00( .00), =.81 | .07( .27), =.80 | (-.46, .59) | --- | .02( .09), =.82 | .01( .06), =.82 | (-.10, .12) | .03(-.08, .14) |
| semantic memory | eas | pef | bnt | 72 | -15.17(69.84), =.83 | -.10( .46), =.83 | (-.99, .80) | -.10(-.32, .14) | -.34(3.37), =.92 | -.16(1.57), =.92 | (-3.23,2.91) | -.15(-.37, .08) | 6.53(19.29), =.73 | .09( .26), =.74 | (-.43, .61) | .09(-.15, .31) |
| semantic memory | map | fev | bnt | 351 | .05( .04), =.23 | --- | --- | .09(-.02, .19) | -.00( .00), =.33 | --- | --- | -.82(-.85,-.78) | -.00( .01), =.71 | --- | --- | -.02(-.13, .08) |
| semantic memory | map | fev | nart | 351 | .10( .06), =.08 . | --- | --- | .10(-.01, .20) | -.00( .00), =.81 | --- | --- | -.24(-.33,-.13) | -.00( .01), =.72 | --- | --- | -.02(-.12, .09) |
| semantic memory | satsa | fev | synonyms | 299 | .30( .20), =.14 | .13( .08), =.13 | (-.04, .29) | .13( .01, .24) | .00( .00), =.81 | .10( .41), =.81 | (-.71, .91) | --- | .03( .03), =.34 | .04( .05), =.34 | (-.05, .13) | .04(-.07, .16) |
| semantic memory | eas | pef | waisvocab | 72 | 83.95(266.36), =.75 | .11( .35), =.75 | (-.57, .79) | .11(-.12, .33) | 8.26(15.29), =.59 | .91(2.13), =.67 | (-3.26,5.08) | .91( .86, .94) | -12.48(71.63), =.86 | -.03( .19), =.86 | (-.41, .34) | -.03(-.26, .20) |
| semantic memory | elsa | fev | word\_de | 3091 | .04( .03), =.16 | .06( .04), =.16 | (-.02, .13) | .06( .02, .09) | .00( .00), =.54 | -.22( .39), =.58 | (-.99, .55) | .00(-.04, .04) | .02( .01), =.27 | .03( .03), =.27 | (-.02, .08) | .03(-.01, .06) |
| semantic memory | elsa | fev | word\_de | 3091 | .04( .03), =.16 | .06( .04), =.16 | (-.02, .13) | .06( .02, .09) | .00( .00), =.54 | -.22( .39), =.58 | (-.99, .55) | .00(-.04, .04) | .02( .01), =.27 | .03( .03), =.27 | (-.02, .08) | .03(-.01, .06) |
| semantic memory | elsa | fev100 | word\_de | 3091 | 3.78(2.64), =.15 | .06( .04), =.15 | (-.02, .13) | .06( .02, .09) | -.02( .03), =.48 | -.22( .33), =.51 | (-.86, .43) | -.23(-.27,-.20) | 1.62(1.39), =.24 | .03( .02), =.25 | (-.02, .08) | .03(-.01, .06) |
| semantic memory | elsa | fev100 | word\_de | 3091 | 3.78(2.64), =.15 | .06( .04), =.15 | (-.02, .13) | .06( .02, .09) | -.02( .03), =.48 | -.22( .33), =.51 | (-.86, .43) | -.23(-.27,-.20) | 1.62(1.39), =.24 | .03( .02), =.25 | (-.02, .08) | .03(-.01, .06) |
| semantic memory | hrs | pef | word\_de | 3288 | 30.33(3.72), <.01 \*\*\* | .27( .03), <.01 \*\*\* | ( .21, .34) | .27( .24, .30) | .15( .08), =.07 . | .70( .54), =.19 | (-.35,1.76) | .74( .72, .75) | 1.95(1.80), =.28 | .03( .02), =.28 | (-.02, .07) | .03(-.01, .06) |
| semantic memory | map | fev | word\_de | 351 | .05( .07), =.44 | --- | --- | .06(-.04, .17) | .00( .00), =.82 | --- | --- | .27( .17, .36) | .00( .01), =.77 | --- | --- | .01(-.09, .12) |
| semantic memory | nas | fev | word\_de | 1131 | .54( .31), =.08 . | --- | --- | .08( .02, .14) | .00( .00), =.84 | --- | --- | .00(-.06, .06) | .04( .05), =.51 | --- | --- | .02(-.04, .08) |
| semantic memory | nas | fev | word\_de | 1131 | .54( .31), =.08 . | --- | --- | .08( .02, .14) | .00( .00), =.84 | --- | --- | .00(-.06, .06) | .04( .05), =.51 | --- | --- | .02(-.04, .08) |
| semantic memory | map | fev | word\_rec | 351 | .01( .04), =.88 | --- | --- | .01(-.09, .12) | -.00( .00), =.36 | --- | --- | -.38(-.46,-.28) | .01( .01), =.19 | --- | --- | .07(-.04, .17) |
| short-term memory | map | fev | bstory\_im | 351 | .05( .06), =.43 | --- | --- | .08(-.03, .18) | .00( .00), =.18 | --- | --- | .69( .63, .74) | -.01( .01), =.29 | --- | --- | -.05(-.15, .06) |
| short-term memory | eas | pef | digit\_tot | 72 | -87.85(126.88), =.49 | -.24( .34), =.47 | (-.90, .42) | -.24(-.45,-.01) | -3.94(6.14), =.52 | -.86(1.16), =.46 | (-3.13,1.41) | -.86(-.91,-.78) | 17.02(16.32), =.30 | .18( .17), =.29 | (-.16, .53) | .18(-.05, .40) |
| short-term memory | nas | fev | digit\_tot | 1131 | .22( .41), =.59 | .03( .05), =.59 | (-.07, .12) | .03(-.03, .08) | .00( .00), =.79 | .08( .30), =.78 | (-.50, .67) | .12( .06, .18) | .09( .07), =.18 | .04( .03), =.18 | (-.02, .10) | .04(-.02, .10) |
| short-term memory | satsa | fev | fig\_mem | 298 | .40( .17), =.02 \* | .23( .09), =.01 \*\* | ( .06, .40) | .23( .12, .33) | .00( .00), =.89 | .05( .38), =.89 | (-.68, .79) | --- | .01( .04), =.82 | .01( .04), =.82 | (-.08, .10) | .01(-.10, .12) |
| short-term memory | map | fev | logic\_im | 351 | .12( .12), =.33 | --- | --- | .08(-.03, .18) | -.01( .01), =.22 | --- | --- | -.57(-.63,-.49) | .00( .02), =.95 | --- | --- | .00(-.10, .11) |
| short-term memory | octo | pef | prose\_im | 136 | 63.89(39.48), =.11 | .22( .13), =.09 . | (-.04, .48) | .22( .05, .37) | -.17( .42), =.68 | -.26( .53), =.62 | (-1.29, .77) | -.25(-.40,-.09) | 11.87(14.47), =.41 | .10( .12), =.41 | (-.14, .34) | .10(-.07, .26) |
| short-term memory | elsa | fev | word\_im | 3091 | .03( .02), =.15 | .06( .04), =.15 | (-.02, .13) | .06( .02, .09) | .00( .00), =.52 | -.11( .18), =.53 | (-.46, .24) | .00(-.04, .04) | .02( .01), =.06 . | .05( .02), =.06 . | (-.00, .09) | .05( .01, .08) |
| short-term memory | elsa | fev100 | word\_im | 3091 | 3.22(2.20), =.14 | .06( .04), =.15 | (-.02, .13) | .06( .02, .09) | -.02( .03), =.51 | -.11( .17), =.52 | (-.45, .23) | -.11(-.15,-.08) | 2.34(1.21), =.05 . | .05( .02), =.06 . | (-.00, .09) | .05( .01, .08) |
| short-term memory | hrs | pef | word\_im | 3288 | 23.98(3.09), <.01 \*\*\* | .26( .03), <.01 \*\*\* | ( .19, .32) | .26( .22, .29) | .05( .07), =.47 | .37( .59), =.53 | (-.78,1.52) | .37( .34, .40) | 2.27(1.45), =.12 | .04( .02), =.12 | (-.01, .08) | .04( .00, .07) |
| short-term memory | lasa | pef | word\_im | 800 | 35.22(17.06), =.04 \* | .10( .05), =.04 \* | ( .01, .20) | .10( .03, .17) | .03( .11), =.81 | .11( .44), =.80 | (-.76, .98) | .11( .04, .18) | 19.63(5.39), <.01 \*\*\* | .10( .03), <.01 \*\*\* | ( .05, .15) | .10( .03, .17) |
| short-term memory | map | fev | word\_im | 351 | .12( .10), =.24 | --- | --- | .10(-.01, .20) | -.00( .01), =.88 | --- | --- | -.09(-.19, .02) | .05( .02), =.05 . | --- | --- | .09(-.01, .19) |
| short-term memory | nas | fev | word\_im | 1131 | 1.24( .62), =.04 \* | --- | --- | .10( .04, .16) | .00( .00), =.34 | --- | --- | .15( .09, .21) | -.13( .11), =.22 | --- | --- | -.03(-.09, .02) |
| verbal comprehension | map | fev | ideas | 351 | -.00( .02), =.78 | --- | --- | -.02(-.13, .08) | -.00( .00), =.15 | --- | --- | -.67(-.72,-.61) | .00( .01), =.56 | --- | --- | .03(-.08, .13) |
| visual discrimination | map | fev | line | 351 | .16( .08), =.05 \* | --- | --- | .14( .04, .24) | .00( .00), =.63 | --- | --- | .27( .17, .36) | .00( .02), =.89 | --- | --- | .01(-.10, .11) |
| working memory | map | fev | digit\_b | 351 | .08( .06), =.14 | --- | --- | .11( .00, .21) | -.00( .00), =.85 | --- | --- | -.16(-.26,-.06) | -.00( .01), =.74 | --- | --- | -.01(-.12, .09) |
| working memory | nas | fev | digit\_b | 1131 | .16( .24), =.52 | .03( .05), =.52 | (-.07, .14) | .03(-.02, .09) | .00( .00), =.25 | .48( .68), =.48 | (-.85,1.81) | --- | .05( .04), =.26 | .03( .03), =.25 | (-.02, .09) | .03(-.02, .09) |
| working memory | octo | pef | digit\_b | 138 | 28.91(13.02), =.03 \* | .30( .13), =.02 \* | ( .04, .57) | .31( .15, .45) | .33( .37), =.38 | .36( .41), =.37 | (-.43,1.16) | .36( .21, .50) | -5.13(4.88), =.29 | -.09( .08), =.27 | (-.25, .07) | -.09(-.25, .08) |
| working memory | satsa | fev | digit\_b | 299 | .09( .04), =.03 \* | .20( .09), =.03 \* | ( .02, .38) | .20( .09, .31) | .00( .00), =.41 | -.50( .69), =.47 | (-1.86, .86) | --- | -.01( .01), =.42 | -.03( .04), =.42 | (-.11, .05) | -.07(-.18, .04) |
| working memory | map | fev | digit\_o | 351 | -.02( .04), =.69 | --- | --- | -.03(-.14, .07) | .00( .00), =.89 | --- | --- | .38( .28, .46) | -.00( .01), =.82 | --- | --- | -.01(-.12, .09) |
| NA | eas | pef | NA | 72 | -104.53(135.95), =.44 | -.31( .41), =.45 | (-1.10, .49) | -.31(-.50,-.08) | .97(8.38), =.91 | .25(2.40), =.92 | (-4.45,4.95) | .25( .02, .46) | -7.70(41.14), =.85 | -.04( .21), =.85 | (-.46, .38) | -.04(-.27, .19) |

# 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 | fev | digit\_f | 1010 | .06( .02), <.01 \*\* | --- | --- | .13( .07, .19) | .00( .00), =.99 | --- | --- | --- | .01( .01), =.22 | --- | --- | .03(-.03, .10) |
| attention | octo | pef | digit\_f | 275 | -.26(4.91), =.96 | -.00( .10), =.96 | (-.20, .19) | -.01(-.12, .11) | -.12( .12), =.31 | -.30( .27), =.27 | (-.84, .23) | -.29(-.40,-.18) | .45(1.90), =.81 | .01( .05), =.81 | (-.09, .12) | .01(-.11, .13) |
| attention | satsa | fev | digit\_f | 409 | .02( .02), =.37 | .09( .10), =.37 | (-.10, .27) | .09(-.01, .18) | .00( .00), =.92 | .06( .61), =.92 | (-1.14,1.26) | --- | .02( .01), =.01 \*\* | .11( .04), =.01 \*\* | ( .03, .19) | .11( .01, .21) |
| attention | hrs | pef | serial7 | 4608 | 9.13(1.94), <.01 \*\*\* | .13( .03), <.01 \*\*\* | ( .08, .19) | .13( .10, .16) | .16( .05), <.01 \*\* | .38( .13), <.01 \*\* | ( .12, .63) | .38( .35, .40) | -1.11( .92), =.22 | -.02( .02), =.22 | (-.06, .02) | -.02(-.05, .00) |
| episodic memory | map | fev | bstory\_de | 1010 | .01( .02), =.74 | --- | --- | .02(-.04, .08) | -.00( .00), =.42 | --- | --- | --- | -.01( .01), =.08 . | --- | --- | -.06(-.12, .01) |
| episodic memory | satsa | fev | information | 410 | .06( .15), =.66 | .03( .07), =.66 | (-.11, .18) | .03(-.07, .13) | .00( .00), =.05 . | .31( .16), =.06 . | (-.01, .62) | --- | .09( .03), =.01 \*\* | .11( .04), =.01 \*\* | ( .03, .18) | .11( .01, .20) |
| episodic memory | map | fev | logic\_de | 1010 | .03( .05), =.51 | --- | --- | .03(-.03, .09) | -.01( .00), =.22 | --- | --- | --- | -.01( .01), =.61 | --- | --- | -.02(-.08, .04) |
| episodic memory | eas | pef | logic\_tot | 150 | 81.32(54.69), =.14 | .25( .16), =.12 | (-.07, .56) | .25( .09, .39) | .53(2.48), =.83 | .20( .94), =.83 | (-1.65,2.05) | .20( .04, .35) | 17.14(16.31), =.29 | .11( .10), =.29 | (-.09, .32) | .11(-.05, .27) |
| executive function | eas | pef | trailsb | 150 | -818.94(707.87), =.25 | -.25( .20), =.20 | (-.63, .13) | -.25(-.39,-.09) | -5.32(37.39), =.89 | -.23(1.59), =.89 | (-3.35,2.89) | -.23(-.37,-.07) | -68.68(221.61), =.76 | -.04( .14), =.76 | (-.32, .23) | -.04(-.20, .12) |
| fluency | eas | pef | categories | 150 | 82.62(74.98), =.27 | .16( .14), =.25 | (-.11, .43) | .16(-.00, .31) | -1.22(3.96), =.76 | -.16( .54), =.76 | (-1.23, .90) | -.16(-.32,-.00) | -9.54(13.85), =.49 | -.06( .09), =.49 | (-.23, .11) | -.06(-.22, .10) |
| fluency | map | fev | categories | 1010 | .49( .10), <.01 \*\*\* | --- | --- | .22( .16, .28) | .00( .01), =.99 | --- | --- | --- | -.03( .02), =.20 | --- | --- | -.04(-.10, .03) |
| fluency | eas | pef | fas | 150 | 29.54(106.47), =.78 | .04( .15), =.78 | (-.25, .34) | .04(-.12, .20) | -2.18(3.08), =.48 | -.52( .84), =.54 | (-2.17,1.13) | -.52(-.63,-.39) | 1.28(24.00), =.96 | .01( .12), =.96 | (-.23, .24) | .01(-.15, .17) |
| fluid reasoning | satsa | fev | analogies | 407 | .20( .07), =.01 \*\* | .27( .10), <.01 \*\* | ( .08, .45) | .27( .17, .35) | .00( .00), =.36 | .17( .19), =.37 | (-.20, .55) | --- | .01( .02), =.65 | .02( .04), =.65 | (-.06, .10) | .02(-.08, .12) |
| fluid reasoning | eas | pef | block | 150 | 90.07(75.15), =.23 | .19( .15), =.21 | (-.11, .49) | .19( .03, .34) | -.30(2.64), =.91 | -.11(1.02), =.91 | (-2.12,1.89) | -.11(-.27, .05) | 3.98(17.73), =.82 | .02( .10), =.82 | (-.17, .21) | .02(-.14, .18) |
| fluid reasoning | octo | pef | block | 271 | 83.65(32.97), =.01 \* | .23( .09), =.01 \*\* | ( .07, .40) | .23( .12, .34) | .04( .68), =.96 | .02( .34), =.96 | (-.65, .68) | .02(-.10, .14) | 22.75(9.67), =.02 \* | .15( .06), =.01 \* | ( .03, .27) | .15( .03, .26) |
| fluid reasoning | satsa | fev | block | 408 | .41( .15), =.01 \*\* | .24( .09), <.01 \*\* | ( .07, .41) | .24( .15, .33) | .00( .00), =.44 | .19( .24), =.43 | (-.27, .65) | --- | .06( .03), =.09 . | .07( .04), =.09 . | (-.01, .16) | .07(-.03, .17) |
| fluid reasoning | map | fev | matrices | 1010 | .12( .03), <.01 \*\*\* | --- | --- | .20( .14, .26) | .00( .00), =.40 | --- | --- | --- | -.01( .01), =.11 | --- | --- | -.05(-.11, .02) |
| fluid reasoning | lasa | pef | raven | 782 | 43.20(8.05), <.01 \*\*\* | .29( .05), <.01 \*\*\* | ( .19, .39) | .29( .22, .35) | -.01( .04), =.76 | -.14( .45), =.75 | (-1.02, .73) | -.16(-.22,-.09) | .53(2.73), =.85 | .00( .03), =.85 | (-.05, .06) | .00(-.07, .08) |
| fluid reasoning | satsa | fev | rotate | 407 | 1.13( .35), <.01 \*\*\* | .29( .08), <.01 \*\*\* | ( .12, .45) | .29( .19, .37) | .00( .00), =.99 | .03(1.72), =.99 | (-3.35,3.40) | --- | .02( .10), =.81 | .01( .04), =.81 | (-.07, .08) | .01(-.09, .11) |
| mental status | eas | pef | mmse | 150 | 20.91(12.09), =.08 . | .31( .16), =.05 \* | ( .00, .62) | .31( .16, .45) | .11( .49), =.82 | .28(1.27), =.83 | (-2.22,2.77) | .26( .10, .40) | -.07(3.23), =.98 | -.00( .11), =.98 | (-.21, .21) | -.00(-.16, .16) |
| mental status | map | fev | mmse | 1010 | .02( .02), =.36 | --- | --- | .05(-.01, .11) | -.00( .00), =.64 | --- | --- | --- | .00( .00), =.73 | --- | --- | .01(-.05, .07) |
| mental status | satsa | fev | mmse | 411 | -.02( .05), =.72 | -.07( .18), =.72 | (-.42, .29) | -.07(-.16, .03) | .00( .00), =.10 . | .36( .20), =.07 . | (-.03, .76) | --- | .06( .02), <.01 \*\* | .14( .05), <.01 \*\* | ( .05, .23) | .14( .05, .24) |
| mental status | hrs | pef | tics | 715 | 10.30(6.60), =.12 | --- | --- | .13( .05, .20) | .33( .20), =.09 . | --- | --- | .33( .26, .39) | -1.12(2.17), =.61 | --- | --- | -.02(-.09, .05) |
| perceptual speed | lasa | pef | letter | 782 | 74.21(15.62), <.01 \*\*\* | .22( .04), <.01 \*\*\* | ( .13, .31) | .22( .15, .29) | -.01( .06), =.91 | -.03( .30), =.92 | (-.63, .56) | -.03(-.10, .04) | 12.67(3.60), <.01 \*\*\* | .11( .03), <.01 \*\*\* | ( .05, .17) | .11( .04, .18) |
| perceptual speed | map | fev | num\_comp | 1010 | .28( .08), <.01 \*\*\* | --- | --- | .15( .09, .21) | -.00( .01), =.47 | --- | --- | --- | .00( .02), =.96 | --- | --- | .00(-.06, .06) |
| perceptual speed | eas | pef | symbol | 150 | 201.39(111.31), =.07 . | .28( .14), =.04 \* | ( .01, .56) | .29( .13, .43) | 1.93(2.81), =.49 | .51( .92), =.58 | (-1.29,2.31) | .51( .38, .62) | 2.81(22.77), =.90 | .01( .10), =.90 | (-.19, .22) | .01(-.15, .17) |
| perceptual speed | map | fev | symbol | 1010 | .48( .11), <.01 \*\*\* | --- | --- | .18( .12, .24) | -.00( .01), =.53 | --- | --- | --- | .01( .03), =.69 | --- | --- | .01(-.05, .08) |
| perceptual speed | octo | pef | symbol | 263 | 202.30(47.72), <.01 \*\*\* | .38( .08), <.01 \*\*\* | ( .23, .53) | .38( .27, .48) | 2.24(1.04), =.03 \* | .66( .18), <.01 \*\*\* | ( .31,1.00) | .66( .59, .72) | 8.29(13.50), =.54 | .03( .06), =.54 | (-.07, .14) | .03(-.09, .15) |
| perceptual speed | satsa | fev | symbol | 408 | .25( .20), =.22 | .10( .08), =.22 | (-.06, .26) | .10( .00, .20) | -.00( .00), =.39 | -.16( .20), =.42 | (-.54, .23) | --- | .05( .06), =.38 | .04( .05), =.38 | (-.05, .13) | .04(-.05, .14) |
| semantic memory | eas | pef | bnt | 150 | 38.07(22.34), =.09 . | .33( .18), =.07 . | (-.02, .68) | .33( .18, .46) | -.45(1.15), =.69 | -.31( .74), =.68 | (-1.76,1.14) | -.31(-.45,-.15) | 1.66(7.29), =.82 | .03( .14), =.82 | (-.24, .30) | .03(-.13, .19) |
| semantic memory | map | fev | bnt | 1010 | .02( .02), =.32 | --- | --- | .05(-.01, .11) | .00( .00), =.72 | --- | --- | --- | -.00( .00), =.61 | --- | --- | -.02(-.08, .04) |
| semantic memory | map | fev | nart | 1010 | .10( .03), <.01 \*\*\* | --- | --- | .16( .10, .22) | .00( .00), =.73 | --- | --- | --- | .00( .00), =.98 | --- | --- | .00(-.06, .06) |
| semantic memory | satsa | fev | synonyms | 409 | .23( .10), =.01 \* | .18( .07), =.01 \* | ( .04, .33) | .18( .09, .27) | .00( .00), =.21 | .33( .25), =.18 | (-.16, .81) | --- | .04( .02), =.09 . | .08( .04), =.08 . | (-.01, .17) | .08(-.02, .18) |
| semantic memory | eas | pef | waisvocab | 150 | -19.45(84.84), =.82 | -.03( .14), =.82 | (-.30, .24) | -.03(-.19, .13) | -.45(3.31), =.89 | -.16(1.30), =.90 | (-2.70,2.38) | -.16(-.31,-.00) | 4.30(29.43), =.88 | .02( .13), =.88 | (-.24, .28) | .02(-.14, .18) |
| semantic memory | elsa | fev | word\_de | 3511 | .02( .02), =.25 | .05( .04), =.25 | (-.03, .13) | .05( .01, .08) | .00( .00), =.63 | -.43(1.05), =.68 | (-2.49,1.64) | --- | .01( .01), =.57 | .01( .03), =.56 | (-.04, .07) | .02(-.02, .05) |
| semantic memory | elsa | fev | word\_de | 3511 | .02( .02), =.25 | .05( .04), =.25 | (-.03, .13) | .05( .01, .08) | .00( .00), =.63 | -.43(1.05), =.68 | (-2.49,1.64) | --- | .01( .01), =.57 | .01( .03), =.56 | (-.04, .07) | .02(-.02, .05) |
| semantic memory | elsa | fev100 | word\_de | 3511 | 2.12(1.77), =.23 | .05( .04), =.24 | (-.03, .13) | .05( .01, .08) | -.01( .03), =.58 | -.43( .41), =.29 | (-1.22, .37) | -.42(-.45,-.40) | .67(1.07), =.53 | .01( .02), =.54 | (-.03, .06) | .02(-.02, .05) |
| semantic memory | elsa | fev100 | word\_de | 3511 | 2.12(1.77), =.23 | .05( .04), =.24 | (-.03, .13) | .05( .01, .08) | -.01( .03), =.58 | -.43( .41), =.29 | (-1.22, .37) | -.42(-.45,-.40) | .67(1.07), =.53 | .01( .02), =.54 | (-.03, .06) | .02(-.02, .05) |
| semantic memory | hrs | pef | word\_de | 4611 | 22.08(2.27), <.01 \*\*\* | .28( .03), <.01 \*\*\* | ( .23, .33) | .28( .25, .31) | .10( .05), =.04 \* | .69( .50), =.17 | (-.30,1.68) | .70( .69, .72) | 2.00(1.03), =.05 . | .04( .02), =.05 . | (-.00, .07) | .04( .01, .07) |
| semantic memory | map | fev | word\_de | 1010 | .03( .02), =.22 | --- | --- | .06(-.01, .12) | -.00( .00), =.70 | --- | --- | --- | .00( .01), =.94 | --- | --- | .00(-.06, .06) |
| semantic memory | map | fev | word\_rec | 1010 | .01( .01), =.66 | --- | --- | .03(-.03, .09) | .00( .00), =.93 | --- | --- | .00(-.06, .06) | .00( .00), =.96 | --- | --- | .00(-.06, .06) |
| short-term memory | map | fev | bstory\_im | 1010 | .03( .02), =.13 | --- | --- | .08( .02, .14) | -.00( .00), =.40 | --- | --- | --- | -.01( .01), =.12 | --- | --- | -.04(-.10, .02) |
| short-term memory | eas | pef | digit\_tot | 150 | -28.45(25.50), =.26 | -.17( .15), =.25 | (-.47, .12) | -.17(-.32,-.01) | -.76(1.13), =.50 | -.42( .60), =.48 | (-1.60, .75) | -.42(-.55,-.28) | 4.25(7.08), =.55 | .07( .11), =.55 | (-.16, .29) | .07(-.09, .23) |
| short-term memory | satsa | fev | fig\_mem | 409 | .10( .08), =.25 | .10( .08), =.25 | (-.07, .26) | .10( .00, .19) | .00( .00), =.29 | .25( .24), =.29 | (-.21, .71) | --- | .03( .03), =.21 | .06( .04), =.21 | (-.03, .14) | .05(-.04, .15) |
| short-term memory | map | fev | logic\_im | 1010 | .05( .05), =.26 | --- | --- | .05(-.01, .11) | -.00( .00), =.51 | --- | --- | --- | -.01( .01), =.60 | --- | --- | -.02(-.08, .05) |
| short-term memory | octo | pef | prose\_im | 267 | 28.79(16.85), =.09 . | .16( .09), =.08 . | (-.02, .34) | .16( .04, .27) | -.08( .54), =.88 | -.05( .35), =.88 | (-.74, .64) | -.05(-.17, .07) | 7.21(5.67), =.20 | .08( .06), =.21 | (-.04, .19) | .08(-.04, .19) |
| short-term memory | elsa | fev | word\_im | 3511 | .03( .02), =.09 . | .07( .04), =.09 . | (-.01, .15) | .07( .04, .10) | .00( .00), =.68 | -.16( .43), =.71 | (-1.00, .68) | --- | .01( .01), =.29 | .02( .02), =.28 | (-.02, .07) | .02(-.01, .06) |
| short-term memory | elsa | fev100 | word\_im | 3511 | 2.63(1.49), =.08 . | .07( .04), =.08 . | (-.01, .15) | .07( .04, .10) | -.01( .02), =.63 | -.16( .33), =.63 | (-.81, .49) | -.16(-.20,-.13) | 1.00( .86), =.24 | .02( .02), =.24 | (-.02, .07) | .02(-.01, .06) |
| short-term memory | hrs | pef | word\_im | 4612 | 18.90(1.80), <.01 \*\*\* | .31( .03), <.01 \*\*\* | ( .26, .37) | .31( .29, .34) | .04( .04), =.30 | .44( .55), =.43 | (-.65,1.53) | .44( .42, .47) | 1.71( .85), =.04 \* | .04( .02), =.04 \* | ( .00, .07) | .04( .01, .07) |
| short-term memory | lasa | pef | word\_im | 782 | 37.66(13.01), <.01 \*\* | .16( .05), <.01 \*\* | ( .06, .27) | .16( .09, .23) | .01( .06), =.86 | .10( .57), =.86 | (-1.02,1.22) | .10( .03, .17) | 25.45(4.52), <.01 \*\*\* | .14( .02), <.01 \*\*\* | ( .09, .18) | .14( .07, .20) |
| short-term memory | map | fev | word\_im | 1010 | .13( .05), <.01 \*\* | --- | --- | .12( .06, .18) | -.01( .01), =.11 | --- | --- | --- | .02( .01), =.23 | --- | --- | .04(-.02, .11) |
| verbal comprehension | map | fev | ideas | 1010 | .02( .01), <.01 \*\* | --- | --- | .18( .12, .24) | .00( .00), =.58 | --- | --- | --- | -.00( .00), =.55 | --- | --- | -.01(-.08, .05) |
| visual discrimination | map | fev | line | 1010 | .10( .03), <.01 \*\* | --- | --- | .15( .08, .20) | .00( .00), =.96 | --- | --- | --- | -.01( .01), =.08 . | --- | --- | -.04(-.10, .02) |
| working memory | map | fev | digit\_b | 1010 | .08( .02), <.01 \*\*\* | --- | --- | .15( .09, .21) | .00( .00), =.10 | --- | --- | .51( .47, .56) | -.01( .01), =.11 | --- | --- | -.04(-.11, .02) |
| working memory | octo | pef | digit\_b | 275 | 8.74(5.74), =.13 | .19( .12), =.13 | (-.06, .43) | .19( .07, .30) | .04( .12), =.76 | .16( .50), =.75 | (-.82,1.15) | .15( .04, .27) | .82(2.44), =.74 | .02( .05), =.74 | (-.08, .11) | .02(-.10, .13) |
| working memory | satsa | fev | digit\_b | 409 | .08( .03), <.01 \*\*\* | .31( .10), <.01 \*\*\* | ( .12, .50) | .31( .22, .39) | .00( .00), =.17 | .34( .24), =.17 | (-.14, .82) | --- | -.01( .01), =.51 | -.03( .05), =.51 | (-.13, .07) | -.04(-.13, .06) |
| working memory | map | fev | digit\_o | 1010 | .06( .02), <.01 \*\*\* | --- | --- | .19( .13, .25) | -.00( .00), =.31 | --- | --- | --- | .00( .00), =.34 | --- | --- | .03(-.04, .09) |
| NA | eas | pef | NA | 150 | 56.00(53.81), =.30 | .24( .22), =.27 | (-.19, .66) | .24( .08, .38) | .42(2.30), =.85 | .14( .71), =.85 | (-1.26,1.53) | .14(-.03, .29) | 5.89(12.58), =.64 | .05( .10), =.64 | (-.15, .24) | .05(-.12, .20) |

# 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 2016-11-15, 09:05 -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\_2.1.0 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 R6\_2.2.0 gsubfn\_0.6-6 rmarkdown\_1.1   
[25] pander\_0.6.0 tidyr\_0.6.0 readr\_1.0.0 scales\_0.4.1 htmltools\_0.3.5 rsconnect\_0.5   
[31] assertthat\_0.1 testit\_0.5 xtable\_1.8-2 colorspace\_1.2-7 stringi\_1.1.2 lazyeval\_0.2.0   
[37] munsell\_0.4.3