BISR: pulmonary (focus)

Date: 2017-07-08

## Legend

* Corr(Levels)Est = correlation between intercepts (factor scores) of two processes
* Corr(Slopes)Est = correlation between linear slopes (factor scores) of two processes
* Corr(Resid)Est = correlation between residuals of two processes

Correlations have been computed withing Mplus.

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

**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

# Group by domain

## male

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| Attention & Working Memory | eas | pef | Digit Span Total | 324 | .01( .12), =.92 | .26( .55), =.63 | .07( .06), =.28 |
| Attention & Working Memory | eas | pef | Trials B | 324 | -.42( .11), <.01 \*\*\* | -.96( .55), =.08 . | .00( .07), =.98 |
| Attention & Working Memory | hrs | pef | Serial 7s | 3287 | .16( .04), <.01 \*\*\* | .21( .13), =.10 . | .03( .03), =.24 |
| Attention & Working Memory | map | fev | Digit Ordering | 321 | -.02( .08), =.74 | .09(1.68), =.96 | .00( .05), =.95 |
| Attention & Working Memory | map | fev | Digit Span Backward | 321 | .16( .07), =.03 \* | -.43( .98), =.66 | -.01( .04), =.77 |
| Attention & Working Memory | map | fev | Digit Span Forward | 321 | .08( .07), =.27 | .26(1.03), =.80 | -.02( .04), =.56 |
| Attention & Working Memory | nas | fev | Digit Span Backward | 1131 | .04( .05), =.52 | .51( .67), =.45 | .03( .03), =.26 |
| Attention & Working Memory | nas | fev | Digit Span Backward Span | 1131 | .03( .05), =.59 | .10( .30), =.73 | .04( .03), =.19 |
| Attention & Working Memory | octo | pef | Digit Span Backward | 138 | .31( .13), =.02 \* | .46( .40), =.25 | -.10( .08), =.23 |
| Attention & Working Memory | octo | pef | Digit Span Forward | 138 | -.09( .14), =.52 | .63( .17), <.01 \*\*\* | .01( .06), =.86 |
| Attention & Working Memory | satsa | fev | Digit Span Backward | 299 | .20( .09), =.03 \* | -.50( .69), =.47 | -.03( .04), =.42 |
| Attention & Working Memory | satsa | fev | Digit Span Forward | 299 | .15( .09), =.11 | .20( .61), =.75 | .05( .05), =.36 |
| Learning & Memory | eas | pef | Logical Memory Total | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| Learning & Memory | eas | pef | Word List Immediate | 324 | .07( .12), =.57 | .38( .42), =.37 | .03( .08), =.68 |
| Learning & Memory | elsa | fev | Word List Delayed | 3091 | .06( .04), =.16 | -.22( .39), =.58 | .03( .03), =.27 |
| Learning & Memory | elsa | fev | Word List Immediate | 3091 | .06( .04), =.15 | -.11( .18), =.53 | .05( .02), =.06 . |
| Learning & Memory | hrs | pef | Word List Delayed | 3288 | .27( .03), <.01 \*\*\* | .70( .54), =.19 | .03( .02), =.28 |
| Learning & Memory | hrs | pef | Word List Immediate | 3288 | .26( .03), <.01 \*\*\* | .37( .59), =.53 | .04( .02), =.12 |
| Learning & Memory | lasa | pef | Word List Immediate | 800 | .10( .05), =.04 \* | .11( .44), =.80 | .10( .03), <.01 \*\*\* |
| Learning & Memory | map | fev | Boston Story Delayed | 321 | .13( .10), =.21 | .64(2.09), =.76 | -.02( .05), =.66 |
| Learning & Memory | map | fev | Boston Story Immediate | 321 | .16( .11), =.14 | .80(1.12), =.47 | -.05( .05), =.29 |
| Learning & Memory | map | fev | Logical Memory Delayed | 321 | .14( .07), =.04 \* | .05( .44), =.90 | -.01( .04), =.76 |
| Learning & Memory | map | fev | Logical Memory Immediate | 321 | .11( .07), =.14 | .12(1.05), =.91 | -.01( .04), =.78 |
| Learning & Memory | map | fev | Word List Delayed | 321 | .10( .08), =.25 | .69(1.04), =.50 | .00( .05), =.92 |
| Learning & Memory | map | fev | Word List Immediate | 321 | .05( .08), =.56 | .54( .97), =.58 | .10( .05), =.04 \* |
| Learning & Memory | map | fev | Word Recognition | 321 | .01( .08), =.93 | -.58( .43), =.18 | .06( .05), =.17 |
| Learning & Memory | nas | fev | Word List Delayed | 1131 | .08( .05), =.07 . | -.03( .12), =.77 | .02( .03), =.50 |
| Learning & Memory | nas | fev | Word List Immediate | 1131 | .11( .05), =.03 \* | .15( .18), =.39 | -.03( .03), =.23 |
| Learning & Memory | octo | pef | Objects Recalled | 137 | .58( .12), <.01 \*\*\* | .43( .17), =.01 \*\* | -.02( .09), =.85 |
| Learning & Memory | octo | pef | Objects Recognized | 137 | .51( .17), <.01 \*\* | .28( .60), =.65 | .04( .06), =.46 |
| Learning & Memory | octo | pef | Prose Immediate | 136 | .22( .13), =.10 . | -.26( .53), =.62 | .10( .14), =.47 |
| Learning & Memory | satsa | fev | Figure Memory | 298 | .23( .09), =.01 \*\* | .05( .38), =.89 | .01( .04), =.82 |
| Mental Status | eas | pef | Calculated MMSE | 324 | .31( .16), =.05 \* | .76(1.10), =.49 | -.05( .06), =.42 |
| Mental Status | map | fev | Ideas | 321 | -.02( .08), =.82 | -.36( .38), =.34 | .04( .05), =.42 |
| Mental Status | map | fev | MMSE | 321 | .04( .08), =.66 | -.58( .79), =.46 | .02( .05), =.72 |
| Mental Status | nas | fev | MMSE | 1131 | .20( .07), =.01 \*\* | -.12( .23), =.61 | -.02( .03), =.44 |
| Mental Status | octo | pef | MMSE | 138 | .27( .14), =.06 . | -.17( .53), =.74 | .04( .11), =.72 |
| Mental Status | octo | pef | MMSE | 140 | .66( .14), <.01 \*\*\* | .15( .37), =.69 | .14( .16), =.38 |
| Mental Status | satsa | fev | MMSE | 299 | .16( .12), =.18 | .35( .30), =.24 | .05( .05), =.28 |
| Perceptual Reasoning | eas | pef | Block Design | 324 | .31( .11), <.01 \*\* | .58( .72), =.42 | -.11( .07), =.11 |
| Perceptual Reasoning | lasa | pef | Progressive Matrices | 800 | .18( .05), <.01 \*\*\* | .54( .19), <.01 \*\* | .03( .03), =.25 |
| Perceptual Reasoning | map | fev | Line Orientation | 321 | .15( .08), =.04 \* | .39( .74), =.60 | -.02( .04), =.68 |
| Perceptual Reasoning | map | fev | Progressive Matrices | 308 | .08( .08), =.28 | .43( .68), =.52 | -.02( .04), =.70 |
| Perceptual Reasoning | nas | fev | Figure Copy | 1131 | .19( .06), <.01 \*\*\* | .52( .43), =.23 | -.09( .03), <.01 \*\* |
| Perceptual Reasoning | nas | fev | Pattern Comparison | 1131 | -.01( .06), =.86 | -.25( .28), =.37 | .03( .03), =.44 |
| Perceptual Reasoning | octo | pef | Block Design | 136 | .30( .12), =.01 \*\* | .75( .18), <.01 \*\*\* | .11( .07), =.08 . |
| Perceptual Reasoning | octo | pef | Figure Logic | 133 | .29( .13), =.03 \* | .79( .14), <.01 \*\*\* | .01( .08), =.87 |
| Perceptual Reasoning | satsa | fev | Block Design | 299 | .20( .08), =.01 \*\* | .14( .21), =.49 | .01( .05), =.89 |
| Perceptual Reasoning | satsa | fev | Card Rotation | 298 | .19( .08), =.02 \* | .14( .38), =.72 | .02( .05), =.69 |
| Processing Speed | eas | pef | Symbol | 324 | .40( .10), <.01 \*\*\* | .67( .32), =.04 \* | -.13( .07), =.04 \* |
| Processing Speed | lasa | pef | Coding | 800 | .16( .04), <.01 \*\*\* | .18( .12), =.13 | .12( .03), <.01 \*\*\* |
| Processing Speed | map | fev | Number Comparison | 321 | .02( .07), =.77 | -.75( .49), =.13 | .02( .04), =.64 |
| Processing Speed | map | fev | Symbol | 321 | .16( .07), =.02 \* | -.36( .81), =.65 | .06( .05), =.17 |
| Processing Speed | octo | pef | Perceptual Speed | 127 | .36( .12), <.01 \*\* | .51( .29), =.08 . | -.09( .10), =.39 |
| Processing Speed | octo | pef | Symbol | 133 | .31( .11), <.01 \*\* | .73( .14), <.01 \*\*\* | -.04( .07), =.57 |
| Processing Speed | satsa | fev | Symbol | 299 | .20( .08), =.01 \* | .07( .27), =.80 | .01( .06), =.82 |
| Verbal Ability | eas | pef | Boston Naming Test | 324 | .04( .14), =.79 | .16(1.40), =.91 | .05( .06), =.40 |
| Verbal Ability | eas | pef | Categories | 324 | .07( .11), =.54 | .30( .28), =.29 | .02( .06), =.70 |
| Verbal Ability | eas | pef | FAS | 324 | .14( .11), =.17 | -.42(1.79), =.81 | .02( .07), =.79 |
| Verbal Ability | eas | pef | Vocabulary | 324 | -.01( .13), =.91 | -.58( .72), =.42 | -.02( .07), =.81 |
| Verbal Ability | map | fev | Boston Naming Test | 321 | .07( .08), =.35 | .16(1.34), =.90 | -.04( .06), =.53 |
| Verbal Ability | map | fev | Categories | 321 | .16( .07), =.02 \* | .17( .50), =.73 | -.01( .05), =.76 |
| Verbal Ability | map | fev | NART | 321 | .11( .06), =.07 . | -.01( .59), =.98 | -.02( .05), =.70 |
| Verbal Ability | nas | fev | Animals | 1131 | -.05( .05), =.26 | -.03( .17), =.87 | .03( .03), =.30 |
| Verbal Ability | octo | pef | Information | 138 | .06( .12), =.59 | -.07( .39), =.86 | .05( .08), =.53 |
| Verbal Ability | octo | pef | Synonyms | 132 | .11( .13), =.38 | .10( .48), =.83 | .05( .10), =.64 |
| Verbal Ability | satsa | fev | Analogies | 299 | .11( .10), =.29 | -.04( .62), =.95 | .06( .05), =.25 |
| Verbal Ability | satsa | fev | Information | 299 | .11( .08), =.18 | -.03( .30), =.93 | .11( .05), =.03 \* |
| Verbal Ability | satsa | fev | Synonyms | 299 | .13( .08), =.13 | .10( .41), =.81 | .04( .05), =.34 |

## female

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| Attention & Working Memory | eas | pef | Digit Span Total | 545 | .13( .09), =.15 | .44( .31), =.15 | -.03( .05), =.57 |
| Attention & Working Memory | eas | pef | Trials B | 545 | -.13( .09), =.12 | .28( .66), =.66 | -.02( .05), =.73 |
| Attention & Working Memory | hrs | pef | Serial 7s | 4608 | .13( .03), <.01 \*\*\* | .38( .13), <.01 \*\* | -.02( .02), =.22 |
| Attention & Working Memory | map | fev | Digit Ordering | 935 | .18( .05), <.01 \*\*\* | -.20( .57), =.72 | .03( .03), =.28 |
| Attention & Working Memory | map | fev | Digit Span Backward | 935 | .12( .04), =.01 \*\* | .68( .53), =.20 | -.04( .03), =.18 |
| Attention & Working Memory | map | fev | Digit Span Forward | 935 | .13( .04), <.01 \*\* | .01( .60), =.98 | .02( .03), =.46 |
| Attention & Working Memory | octo | pef | Digit Span Backward | 276 | .18( .13), =.16 | .16( .50), =.76 | .02( .05), =.75 |
| Attention & Working Memory | octo | pef | Digit Span Forward | 276 | -.00( .10), =.99 | -.30( .25), =.24 | .01( .05), =.80 |
| Attention & Working Memory | satsa | fev | Digit Span Backward | 409 | .31( .10), <.01 \*\*\* | .34( .24), =.17 | -.03( .05), =.51 |
| Attention & Working Memory | satsa | fev | Digit Span Forward | 409 | .09( .10), =.37 | .06( .61), =.92 | .11( .04), =.01 \*\* |
| Learning & Memory | eas | pef | Logical Memory Total | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| Learning & Memory | eas | pef | Word List Immediate | 545 | .29( .10), <.01 \*\* | .64( .53), =.23 | -.04( .05), =.41 |
| Learning & Memory | elsa | fev | Word List Delayed | 3511 | .05( .04), =.25 | -.43(1.05), =.68 | .01( .03), =.56 |
| Learning & Memory | elsa | fev | Word List Immediate | 3511 | .07( .04), =.09 . | -.16( .43), =.71 | .02( .02), =.28 |
| Learning & Memory | hrs | pef | Word List Delayed | 4611 | .28( .03), <.01 \*\*\* | .69( .50), =.17 | .04( .02), =.05 . |
| Learning & Memory | hrs | pef | Word List Immediate | 4612 | .31( .03), <.01 \*\*\* | .44( .55), =.43 | .04( .02), =.04 \* |
| Learning & Memory | lasa | pef | Word List Immediate | 782 | .16( .05), <.01 \*\* | .10( .57), =.86 | .14( .02), <.01 \*\*\* |
| Learning & Memory | map | fev | Boston Story Delayed | 935 | .02( .06), =.74 | -.02( .47), =.97 | -.04( .03), =.17 |
| Learning & Memory | map | fev | Boston Story Immediate | 935 | .09( .06), =.12 | .11( .60), =.85 | -.03( .03), =.22 |
| Learning & Memory | map | fev | Logical Memory Delayed | 935 | .05( .04), =.31 | -.60( .79), =.44 | .01( .03), =.78 |
| Learning & Memory | map | fev | Logical Memory Immediate | 935 | .04( .05), =.33 | -.11( .47), =.81 | .00( .03), =.91 |
| Learning & Memory | map | fev | Word List Delayed | 935 | .04( .05), =.41 | -.58( .84), =.49 | .02( .03), =.53 |
| Learning & Memory | map | fev | Word List Immediate | 935 | .11( .04), =.02 \* | -.55( .43), =.19 | .03( .03), =.33 |
| Learning & Memory | map | fev | Word Recognition | 935 | .02( .04), =.68 | .08(1.14), =.95 | .00( .03), =.89 |
| Learning & Memory | octo | pef | Objects Recalled | 271 | .13( .10), =.20 | .18( .28), =.53 | .06( .06), =.35 |
| Learning & Memory | octo | pef | Objects Recognized | 271 | .07( .07), =.30 | .52( .32), =.10 | .15( .06), =.02 \* |
| Learning & Memory | octo | pef | Prose Immediate | 268 | .15( .09), =.11 | -.06( .37), =.87 | .07( .06), =.24 |
| Learning & Memory | satsa | fev | Figure Memory | 409 | .10( .08), =.25 | .25( .24), =.29 | .06( .04), =.21 |
| Mental Status | eas | pef | Calculated MMSE | 545 | .18( .10), =.09 . | .07( .73), =.92 | -.01( .05), =.82 |
| Mental Status | map | fev | Ideas | 935 | .19( .06), <.01 \*\*\* | -.24( .56), =.66 | .02( .03), =.46 |
| Mental Status | map | fev | MMSE | 935 | .02( .06), =.71 | -.20( .57), =.72 | .05( .03), =.07 . |
| Mental Status | octo | pef | MMSE | 275 | .24( .11), =.03 \* | .11( .31), =.72 | .09( .09), =.30 |
| Mental Status | octo | pef | MMSE | 276 | .10( .13), =.42 | .20( .32), =.52 | .20( .07), <.01 \*\* |
| Mental Status | satsa | fev | MMSE | 411 | -.07( .18), =.72 | .36( .20), =.07 . | .14( .05), <.01 \*\* |
| Perceptual Reasoning | eas | pef | Block Design | 545 | .25( .10), =.01 \*\* | .31( .36), =.40 | -.01( .05), =.81 |
| Perceptual Reasoning | lasa | pef | Progressive Matrices | 782 | .29( .05), <.01 \*\*\* | -.14( .45), =.75 | .00( .03), =.85 |
| Perceptual Reasoning | map | fev | Line Orientation | 934 | .14( .05), <.01 \*\* | -.32( .87), =.72 | -.04( .03), =.11 |
| Perceptual Reasoning | map | fev | Progressive Matrices | 920 | .18( .05), <.01 \*\*\* | .64( .82), =.44 | -.05( .03), =.08 . |
| Perceptual Reasoning | octo | pef | Block Design | 272 | .24( .09), =.01 \*\* | .02( .32), =.94 | .15( .06), =.01 \* |
| Perceptual Reasoning | octo | pef | Figure Logic | 268 | .20( .12), =.10 . | .18( .43), =.67 | .01( .06), =.81 |
| Perceptual Reasoning | satsa | fev | Block Design | 408 | .24( .09), <.01 \*\* | .19( .24), =.43 | .07( .04), =.09 . |
| Perceptual Reasoning | satsa | fev | Card Rotation | 407 | .29( .08), <.01 \*\*\* | .03(1.72), =.99 | .01( .04), =.81 |
| Processing Speed | eas | pef | Symbol | 545 | .26( .08), <.01 \*\*\* | .46( .25), =.07 . | .02( .05), =.66 |
| Processing Speed | lasa | pef | Coding | 782 | .22( .04), <.01 \*\*\* | -.03( .30), =.92 | .11( .03), <.01 \*\*\* |
| Processing Speed | map | fev | Number Comparison | 934 | .17( .04), <.01 \*\*\* | -.10( .60), =.86 | -.01( .03), =.59 |
| Processing Speed | map | fev | Symbol | 934 | .19( .04), <.01 \*\*\* | .12( .39), =.76 | .05( .03), =.12 |
| Processing Speed | octo | pef | Perceptual Speed | 254 | .13( .11), =.25 | .07( .35), =.84 | .03( .08), =.72 |
| Processing Speed | octo | pef | Symbol | 264 | .38( .08), <.01 \*\*\* | .66( .17), <.01 \*\*\* | .03( .06), =.55 |
| Processing Speed | satsa | fev | Symbol | 408 | .10( .08), =.22 | -.16( .20), =.42 | .04( .05), =.38 |
| Verbal Ability | eas | pef | Boston Naming Test | 545 | .17( .09), =.06 . | .16( .81), =.84 | -.06( .05), =.24 |
| Verbal Ability | eas | pef | Categories | 545 | .26( .09), <.01 \*\* | .53( .74), =.47 | -.09( .06), =.10 |
| Verbal Ability | eas | pef | FAS | 545 | .19( .08), =.02 \* | .10( .38), =.79 | .02( .05), =.64 |
| Verbal Ability | eas | pef | Vocabulary | 545 | .03( .09), =.78 | -.70( .40), =.08 . | -.04( .05), =.41 |
| Verbal Ability | map | fev | Boston Naming Test | 934 | .08( .05), =.10 | -.04( .43), =.92 | -.03( .03), =.35 |
| Verbal Ability | map | fev | Categories | 935 | .23( .04), <.01 \*\*\* | -.35( .44), =.42 | -.04( .03), =.10 |
| Verbal Ability | map | fev | NART | 932 | .15( .04), <.01 \*\*\* | .32( .63), =.61 | .01( .03), =.72 |
| Verbal Ability | octo | pef | Information | 275 | .11( .09), =.23 | .20( .30), =.51 | .06( .06), =.33 |
| Verbal Ability | octo | pef | Synonyms | 265 | .16( .10), =.09 . | .27( .32), =.40 | -.06( .06), =.30 |
| Verbal Ability | satsa | fev | Analogies | 407 | .27( .10), <.01 \*\* | .17( .19), =.37 | .02( .04), =.65 |
| Verbal Ability | satsa | fev | Information | 410 | .03( .07), =.66 | .31( .16), =.06 . | .11( .04), =.01 \*\* |
| Verbal Ability | satsa | fev | Synonyms | 409 | .18( .07), =.01 \* | .33( .25), =.18 | .08( .04), =.08 . |

# Grouped by study

## male

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| Attention & Working Memory | eas | pef | Digit Span Total | 324 | .01( .12), =.92 | .26( .55), =.63 | .07( .06), =.28 |
| Attention & Working Memory | eas | pef | Trials B | 324 | -.42( .11), <.01 \*\*\* | -.96( .55), =.08 . | .00( .07), =.98 |
| Learning & Memory | eas | pef | Logical Memory Total | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| Learning & Memory | eas | pef | Word List Immediate | 324 | .07( .12), =.57 | .38( .42), =.37 | .03( .08), =.68 |
| Mental Status | eas | pef | Calculated MMSE | 324 | .31( .16), =.05 \* | .76(1.10), =.49 | -.05( .06), =.42 |
| Perceptual Reasoning | eas | pef | Block Design | 324 | .31( .11), <.01 \*\* | .58( .72), =.42 | -.11( .07), =.11 |
| Processing Speed | eas | pef | Symbol | 324 | .40( .10), <.01 \*\*\* | .67( .32), =.04 \* | -.13( .07), =.04 \* |
| Verbal Ability | eas | pef | Boston Naming Test | 324 | .04( .14), =.79 | .16(1.40), =.91 | .05( .06), =.40 |
| Verbal Ability | eas | pef | Categories | 324 | .07( .11), =.54 | .30( .28), =.29 | .02( .06), =.70 |
| Verbal Ability | eas | pef | FAS | 324 | .14( .11), =.17 | -.42(1.79), =.81 | .02( .07), =.79 |
| Verbal Ability | eas | pef | Vocabulary | 324 | -.01( .13), =.91 | -.58( .72), =.42 | -.02( .07), =.81 |
| Learning & Memory | elsa | fev | Word List Delayed | 3091 | .06( .04), =.16 | -.22( .39), =.58 | .03( .03), =.27 |
| Learning & Memory | elsa | fev | Word List Immediate | 3091 | .06( .04), =.15 | -.11( .18), =.53 | .05( .02), =.06 . |
| Attention & Working Memory | hrs | pef | Serial 7s | 3287 | .16( .04), <.01 \*\*\* | .21( .13), =.10 . | .03( .03), =.24 |
| Learning & Memory | hrs | pef | Word List Delayed | 3288 | .27( .03), <.01 \*\*\* | .70( .54), =.19 | .03( .02), =.28 |
| Learning & Memory | hrs | pef | Word List Immediate | 3288 | .26( .03), <.01 \*\*\* | .37( .59), =.53 | .04( .02), =.12 |
| Learning & Memory | lasa | pef | Word List Immediate | 800 | .10( .05), =.04 \* | .11( .44), =.80 | .10( .03), <.01 \*\*\* |
| Perceptual Reasoning | lasa | pef | Progressive Matrices | 800 | .18( .05), <.01 \*\*\* | .54( .19), <.01 \*\* | .03( .03), =.25 |
| Processing Speed | lasa | pef | Coding | 800 | .16( .04), <.01 \*\*\* | .18( .12), =.13 | .12( .03), <.01 \*\*\* |
| Attention & Working Memory | map | fev | Digit Ordering | 321 | -.02( .08), =.74 | .09(1.68), =.96 | .00( .05), =.95 |
| Attention & Working Memory | map | fev | Digit Span Backward | 321 | .16( .07), =.03 \* | -.43( .98), =.66 | -.01( .04), =.77 |
| Attention & Working Memory | map | fev | Digit Span Forward | 321 | .08( .07), =.27 | .26(1.03), =.80 | -.02( .04), =.56 |
| Learning & Memory | map | fev | Boston Story Delayed | 321 | .13( .10), =.21 | .64(2.09), =.76 | -.02( .05), =.66 |
| Learning & Memory | map | fev | Boston Story Immediate | 321 | .16( .11), =.14 | .80(1.12), =.47 | -.05( .05), =.29 |
| Learning & Memory | map | fev | Logical Memory Delayed | 321 | .14( .07), =.04 \* | .05( .44), =.90 | -.01( .04), =.76 |
| Learning & Memory | map | fev | Logical Memory Immediate | 321 | .11( .07), =.14 | .12(1.05), =.91 | -.01( .04), =.78 |
| Learning & Memory | map | fev | Word List Delayed | 321 | .10( .08), =.25 | .69(1.04), =.50 | .00( .05), =.92 |
| Learning & Memory | map | fev | Word List Immediate | 321 | .05( .08), =.56 | .54( .97), =.58 | .10( .05), =.04 \* |
| Learning & Memory | map | fev | Word Recognition | 321 | .01( .08), =.93 | -.58( .43), =.18 | .06( .05), =.17 |
| Mental Status | map | fev | Ideas | 321 | -.02( .08), =.82 | -.36( .38), =.34 | .04( .05), =.42 |
| Mental Status | map | fev | MMSE | 321 | .04( .08), =.66 | -.58( .79), =.46 | .02( .05), =.72 |
| Perceptual Reasoning | map | fev | Line Orientation | 321 | .15( .08), =.04 \* | .39( .74), =.60 | -.02( .04), =.68 |
| Perceptual Reasoning | map | fev | Progressive Matrices | 308 | .08( .08), =.28 | .43( .68), =.52 | -.02( .04), =.70 |
| Processing Speed | map | fev | Number Comparison | 321 | .02( .07), =.77 | -.75( .49), =.13 | .02( .04), =.64 |
| Processing Speed | map | fev | Symbol | 321 | .16( .07), =.02 \* | -.36( .81), =.65 | .06( .05), =.17 |
| Verbal Ability | map | fev | Boston Naming Test | 321 | .07( .08), =.35 | .16(1.34), =.90 | -.04( .06), =.53 |
| Verbal Ability | map | fev | Categories | 321 | .16( .07), =.02 \* | .17( .50), =.73 | -.01( .05), =.76 |
| Verbal Ability | map | fev | NART | 321 | .11( .06), =.07 . | -.01( .59), =.98 | -.02( .05), =.70 |
| Attention & Working Memory | nas | fev | Digit Span Backward | 1131 | .04( .05), =.52 | .51( .67), =.45 | .03( .03), =.26 |
| Attention & Working Memory | nas | fev | Digit Span Backward Span | 1131 | .03( .05), =.59 | .10( .30), =.73 | .04( .03), =.19 |
| Learning & Memory | nas | fev | Word List Delayed | 1131 | .08( .05), =.07 . | -.03( .12), =.77 | .02( .03), =.50 |
| Learning & Memory | nas | fev | Word List Immediate | 1131 | .11( .05), =.03 \* | .15( .18), =.39 | -.03( .03), =.23 |
| Mental Status | nas | fev | MMSE | 1131 | .20( .07), =.01 \*\* | -.12( .23), =.61 | -.02( .03), =.44 |
| Perceptual Reasoning | nas | fev | Figure Copy | 1131 | .19( .06), <.01 \*\*\* | .52( .43), =.23 | -.09( .03), <.01 \*\* |
| Perceptual Reasoning | nas | fev | Pattern Comparison | 1131 | -.01( .06), =.86 | -.25( .28), =.37 | .03( .03), =.44 |
| Verbal Ability | nas | fev | Animals | 1131 | -.05( .05), =.26 | -.03( .17), =.87 | .03( .03), =.30 |
| Attention & Working Memory | octo | pef | Digit Span Backward | 138 | .31( .13), =.02 \* | .46( .40), =.25 | -.10( .08), =.23 |
| Attention & Working Memory | octo | pef | Digit Span Forward | 138 | -.09( .14), =.52 | .63( .17), <.01 \*\*\* | .01( .06), =.86 |
| Learning & Memory | octo | pef | Objects Recalled | 137 | .58( .12), <.01 \*\*\* | .43( .17), =.01 \*\* | -.02( .09), =.85 |
| Learning & Memory | octo | pef | Objects Recognized | 137 | .51( .17), <.01 \*\* | .28( .60), =.65 | .04( .06), =.46 |
| Learning & Memory | octo | pef | Prose Immediate | 136 | .22( .13), =.10 . | -.26( .53), =.62 | .10( .14), =.47 |
| Mental Status | octo | pef | MMSE | 138 | .27( .14), =.06 . | -.17( .53), =.74 | .04( .11), =.72 |
| Mental Status | octo | pef | MMSE | 140 | .66( .14), <.01 \*\*\* | .15( .37), =.69 | .14( .16), =.38 |
| Perceptual Reasoning | octo | pef | Block Design | 136 | .30( .12), =.01 \*\* | .75( .18), <.01 \*\*\* | .11( .07), =.08 . |
| Perceptual Reasoning | octo | pef | Figure Logic | 133 | .29( .13), =.03 \* | .79( .14), <.01 \*\*\* | .01( .08), =.87 |
| Processing Speed | octo | pef | Perceptual Speed | 127 | .36( .12), <.01 \*\* | .51( .29), =.08 . | -.09( .10), =.39 |
| Processing Speed | octo | pef | Symbol | 133 | .31( .11), <.01 \*\* | .73( .14), <.01 \*\*\* | -.04( .07), =.57 |
| Verbal Ability | octo | pef | Information | 138 | .06( .12), =.59 | -.07( .39), =.86 | .05( .08), =.53 |
| Verbal Ability | octo | pef | Synonyms | 132 | .11( .13), =.38 | .10( .48), =.83 | .05( .10), =.64 |
| Attention & Working Memory | satsa | fev | Digit Span Backward | 299 | .20( .09), =.03 \* | -.50( .69), =.47 | -.03( .04), =.42 |
| Attention & Working Memory | satsa | fev | Digit Span Forward | 299 | .15( .09), =.11 | .20( .61), =.75 | .05( .05), =.36 |
| Learning & Memory | satsa | fev | Figure Memory | 298 | .23( .09), =.01 \*\* | .05( .38), =.89 | .01( .04), =.82 |
| Mental Status | satsa | fev | MMSE | 299 | .16( .12), =.18 | .35( .30), =.24 | .05( .05), =.28 |
| Perceptual Reasoning | satsa | fev | Block Design | 299 | .20( .08), =.01 \*\* | .14( .21), =.49 | .01( .05), =.89 |
| Perceptual Reasoning | satsa | fev | Card Rotation | 298 | .19( .08), =.02 \* | .14( .38), =.72 | .02( .05), =.69 |
| Processing Speed | satsa | fev | Symbol | 299 | .20( .08), =.01 \* | .07( .27), =.80 | .01( .06), =.82 |
| Verbal Ability | satsa | fev | Analogies | 299 | .11( .10), =.29 | -.04( .62), =.95 | .06( .05), =.25 |
| Verbal Ability | satsa | fev | Information | 299 | .11( .08), =.18 | -.03( .30), =.93 | .11( .05), =.03 \* |
| Verbal Ability | satsa | fev | Synonyms | 299 | .13( .08), =.13 | .10( .41), =.81 | .04( .05), =.34 |

## female

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | physical | cognitive |  | Corr(Levels)Est | Corr(Slopes)Est | Corr(Residuals)Est |
| Attention & Working Memory | eas | pef | Digit Span Total | 545 | .13( .09), =.15 | .44( .31), =.15 | -.03( .05), =.57 |
| Attention & Working Memory | eas | pef | Trials B | 545 | -.13( .09), =.12 | .28( .66), =.66 | -.02( .05), =.73 |
| Learning & Memory | eas | pef | Logical Memory Total | 324 | .07( .12), =.57 | .30( .46), =.51 | -.03( .07), =.63 |
| Learning & Memory | eas | pef | Word List Immediate | 545 | .29( .10), <.01 \*\* | .64( .53), =.23 | -.04( .05), =.41 |
| Mental Status | eas | pef | Calculated MMSE | 545 | .18( .10), =.09 . | .07( .73), =.92 | -.01( .05), =.82 |
| Perceptual Reasoning | eas | pef | Block Design | 545 | .25( .10), =.01 \*\* | .31( .36), =.40 | -.01( .05), =.81 |
| Processing Speed | eas | pef | Symbol | 545 | .26( .08), <.01 \*\*\* | .46( .25), =.07 . | .02( .05), =.66 |
| Verbal Ability | eas | pef | Boston Naming Test | 545 | .17( .09), =.06 . | .16( .81), =.84 | -.06( .05), =.24 |
| Verbal Ability | eas | pef | Categories | 545 | .26( .09), <.01 \*\* | .53( .74), =.47 | -.09( .06), =.10 |
| Verbal Ability | eas | pef | FAS | 545 | .19( .08), =.02 \* | .10( .38), =.79 | .02( .05), =.64 |
| Verbal Ability | eas | pef | Vocabulary | 545 | .03( .09), =.78 | -.70( .40), =.08 . | -.04( .05), =.41 |
| Learning & Memory | elsa | fev | Word List Delayed | 3511 | .05( .04), =.25 | -.43(1.05), =.68 | .01( .03), =.56 |
| Learning & Memory | elsa | fev | Word List Immediate | 3511 | .07( .04), =.09 . | -.16( .43), =.71 | .02( .02), =.28 |
| Attention & Working Memory | hrs | pef | Serial 7s | 4608 | .13( .03), <.01 \*\*\* | .38( .13), <.01 \*\* | -.02( .02), =.22 |
| Learning & Memory | hrs | pef | Word List Delayed | 4611 | .28( .03), <.01 \*\*\* | .69( .50), =.17 | .04( .02), =.05 . |
| Learning & Memory | hrs | pef | Word List Immediate | 4612 | .31( .03), <.01 \*\*\* | .44( .55), =.43 | .04( .02), =.04 \* |
| Learning & Memory | lasa | pef | Word List Immediate | 782 | .16( .05), <.01 \*\* | .10( .57), =.86 | .14( .02), <.01 \*\*\* |
| Perceptual Reasoning | lasa | pef | Progressive Matrices | 782 | .29( .05), <.01 \*\*\* | -.14( .45), =.75 | .00( .03), =.85 |
| Processing Speed | lasa | pef | Coding | 782 | .22( .04), <.01 \*\*\* | -.03( .30), =.92 | .11( .03), <.01 \*\*\* |
| Attention & Working Memory | map | fev | Digit Ordering | 935 | .18( .05), <.01 \*\*\* | -.20( .57), =.72 | .03( .03), =.28 |
| Attention & Working Memory | map | fev | Digit Span Backward | 935 | .12( .04), =.01 \*\* | .68( .53), =.20 | -.04( .03), =.18 |
| Attention & Working Memory | map | fev | Digit Span Forward | 935 | .13( .04), <.01 \*\* | .01( .60), =.98 | .02( .03), =.46 |
| Learning & Memory | map | fev | Boston Story Delayed | 935 | .02( .06), =.74 | -.02( .47), =.97 | -.04( .03), =.17 |
| Learning & Memory | map | fev | Boston Story Immediate | 935 | .09( .06), =.12 | .11( .60), =.85 | -.03( .03), =.22 |
| Learning & Memory | map | fev | Logical Memory Delayed | 935 | .05( .04), =.31 | -.60( .79), =.44 | .01( .03), =.78 |
| Learning & Memory | map | fev | Logical Memory Immediate | 935 | .04( .05), =.33 | -.11( .47), =.81 | .00( .03), =.91 |
| Learning & Memory | map | fev | Word List Delayed | 935 | .04( .05), =.41 | -.58( .84), =.49 | .02( .03), =.53 |
| Learning & Memory | map | fev | Word List Immediate | 935 | .11( .04), =.02 \* | -.55( .43), =.19 | .03( .03), =.33 |
| Learning & Memory | map | fev | Word Recognition | 935 | .02( .04), =.68 | .08(1.14), =.95 | .00( .03), =.89 |
| Mental Status | map | fev | Ideas | 935 | .19( .06), <.01 \*\*\* | -.24( .56), =.66 | .02( .03), =.46 |
| Mental Status | map | fev | MMSE | 935 | .02( .06), =.71 | -.20( .57), =.72 | .05( .03), =.07 . |
| Perceptual Reasoning | map | fev | Line Orientation | 934 | .14( .05), <.01 \*\* | -.32( .87), =.72 | -.04( .03), =.11 |
| Perceptual Reasoning | map | fev | Progressive Matrices | 920 | .18( .05), <.01 \*\*\* | .64( .82), =.44 | -.05( .03), =.08 . |
| Processing Speed | map | fev | Number Comparison | 934 | .17( .04), <.01 \*\*\* | -.10( .60), =.86 | -.01( .03), =.59 |
| Processing Speed | map | fev | Symbol | 934 | .19( .04), <.01 \*\*\* | .12( .39), =.76 | .05( .03), =.12 |
| Verbal Ability | map | fev | Boston Naming Test | 934 | .08( .05), =.10 | -.04( .43), =.92 | -.03( .03), =.35 |
| Verbal Ability | map | fev | Categories | 935 | .23( .04), <.01 \*\*\* | -.35( .44), =.42 | -.04( .03), =.10 |
| Verbal Ability | map | fev | NART | 932 | .15( .04), <.01 \*\*\* | .32( .63), =.61 | .01( .03), =.72 |
| Attention & Working Memory | octo | pef | Digit Span Backward | 276 | .18( .13), =.16 | .16( .50), =.76 | .02( .05), =.75 |
| Attention & Working Memory | octo | pef | Digit Span Forward | 276 | -.00( .10), =.99 | -.30( .25), =.24 | .01( .05), =.80 |
| Learning & Memory | octo | pef | Objects Recalled | 271 | .13( .10), =.20 | .18( .28), =.53 | .06( .06), =.35 |
| Learning & Memory | octo | pef | Objects Recognized | 271 | .07( .07), =.30 | .52( .32), =.10 | .15( .06), =.02 \* |
| Learning & Memory | octo | pef | Prose Immediate | 268 | .15( .09), =.11 | -.06( .37), =.87 | .07( .06), =.24 |
| Mental Status | octo | pef | MMSE | 275 | .24( .11), =.03 \* | .11( .31), =.72 | .09( .09), =.30 |
| Mental Status | octo | pef | MMSE | 276 | .10( .13), =.42 | .20( .32), =.52 | .20( .07), <.01 \*\* |
| Perceptual Reasoning | octo | pef | Block Design | 272 | .24( .09), =.01 \*\* | .02( .32), =.94 | .15( .06), =.01 \* |
| Perceptual Reasoning | octo | pef | Figure Logic | 268 | .20( .12), =.10 . | .18( .43), =.67 | .01( .06), =.81 |
| Processing Speed | octo | pef | Perceptual Speed | 254 | .13( .11), =.25 | .07( .35), =.84 | .03( .08), =.72 |
| Processing Speed | octo | pef | Symbol | 264 | .38( .08), <.01 \*\*\* | .66( .17), <.01 \*\*\* | .03( .06), =.55 |
| Verbal Ability | octo | pef | Information | 275 | .11( .09), =.23 | .20( .30), =.51 | .06( .06), =.33 |
| Verbal Ability | octo | pef | Synonyms | 265 | .16( .10), =.09 . | .27( .32), =.40 | -.06( .06), =.30 |
| Attention & Working Memory | satsa | fev | Digit Span Backward | 409 | .31( .10), <.01 \*\*\* | .34( .24), =.17 | -.03( .05), =.51 |
| Attention & Working Memory | satsa | fev | Digit Span Forward | 409 | .09( .10), =.37 | .06( .61), =.92 | .11( .04), =.01 \*\* |
| Learning & Memory | satsa | fev | Figure Memory | 409 | .10( .08), =.25 | .25( .24), =.29 | .06( .04), =.21 |
| Mental Status | satsa | fev | MMSE | 411 | -.07( .18), =.72 | .36( .20), =.07 . | .14( .05), <.01 \*\* |
| Perceptual Reasoning | satsa | fev | Block Design | 408 | .24( .09), <.01 \*\* | .19( .24), =.43 | .07( .04), =.09 . |
| Perceptual Reasoning | satsa | fev | Card Rotation | 407 | .29( .08), <.01 \*\*\* | .03(1.72), =.99 | .01( .04), =.81 |
| Processing Speed | satsa | fev | Symbol | 408 | .10( .08), =.22 | -.16( .20), =.42 | .04( .05), =.38 |
| Verbal Ability | satsa | fev | Analogies | 407 | .27( .10), <.01 \*\* | .17( .19), =.37 | .02( .04), =.65 |
| Verbal Ability | satsa | fev | Information | 410 | .03( .07), =.66 | .31( .16), =.06 . | .11( .04), =.01 \*\* |
| Verbal Ability | satsa | fev | Synonyms | 409 | .18( .07), =.01 \* | .33( .25), =.18 | .08( .04), =.08 . |

# 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 2017-07-08, 16:11 -0400

R version 3.3.2 (2016-10-31)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows >= 8 x64 (build 9200)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] grid stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] forestplot\_1.7 checkmate\_1.8.2 ggplot2\_2.2.1 magrittr\_1.5 knitr\_1.15.1   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.9 munsell\_0.4.3 testit\_0.6 colorspace\_1.3-2 R6\_2.2.0 highr\_0.6   
 [7] plyr\_1.8.4 stringr\_1.1.0 dplyr\_0.5.0 tools\_3.3.2 DT\_0.2 gtable\_0.2.0   
[13] DBI\_0.5-1 htmltools\_0.3.5 yaml\_2.1.14 lazyeval\_0.2.0 assertthat\_0.1 rprojroot\_1.2   
[19] digest\_0.6.12 tibble\_1.2 readr\_1.0.0 tidyr\_0.6.1 htmlwidgets\_0.8 rsconnect\_0.7   
[25] evaluate\_0.10 rmarkdown\_1.3 stringi\_1.1.2 scales\_0.4.1 backports\_1.0.5 jsonlite\_1.2