Correlation Report #2

Date: 2016-11-02

Table of Contents

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

Warning: 40 parsing failures.  
row col expected actual  
232 time valid date 12:14 PM  
233 time valid date 12:13 PM  
234 time valid date 12:08 PM  
235 time valid date 12:17 PM  
236 time valid date 12:06 PM  
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See problems(...) for more details.

Correlation report for the pulmonary track

# Dynamic Table

# Static Tables

The 'aehplus' model (with covariates *a*ge, *e*ducation, *h*ealth, and others) is shown for each combination of

* study,
* process, and
* gender.

## male

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | phys | cog |  | tau\_levels | tau\_slopes | tau\_resid | er\_levels | er\_slopes | er\_resid | cr\_levels | cr\_slopes | cr\_resid |
| attention | octo | gait | digit\_f | 139 | -.31( .31), =.31 | -.01( .01), =.34 | -.10( .13), =.41 | -.17( .17), =.31 | -.56( .64), =.39 | -.06( .07), =.40 | -.17(-.33,-.01) | -.55(-.66,-.43) | -.06(-.22, .11) |
| attention | hrs | gait | serial7 | 318 | .05( .02), <.01 | .00( .00), =.01 | .00( .01), =.98 | --- | --- | --- | .31( .21, .41) | .48( .39, .56) | .00(-.11, .11) |
| episodic memory | eas | gait | information | 70 | 15.52(18.79), =.41 | -.04(1.26), =.98 | .44(3.64), =.90 | .44( .44), =.32 | -.21(8.37), =.98 | .02( .19), =.90 | .44( .23, .61) | -.21(-.43, .02) | .02(-.21, .26) |
| episodic memory | eas | gait | logic\_tot | 72 | 13.02(27.88), =.64 | .25(1.02), =.80 | -.80(6.03), =.89 | .17( .36), =.62 | .62(2.40), =.80 | -.02( .19), =.90 | .17(-.06, .39) | .62( .46, .75) | -.02(-.25, .21) |
| episodic memory | ilse | tug | waisgeneral | 252 | -.41( .47), =.38 | -.00( .01), =.80 | -.20( .19), =.29 | --- | --- | --- | -.24(-.35,-.12) | -.27(-.38,-.15) | -.09(-.21, .04) |
| executive function | eas | gait | trailsb | 72 | -9.08(280.36), =.97 | -5.16(15.37), =.74 | 9.99(48.12), =.84 | -.01( .47), =.97 | -.65(1.70), =.70 | .03( .14), =.84 | -.02(-.25, .22) | -.65(-.76,-.49) | .03(-.20, .26) |
| fluency | eas | gait | categories | 72 | 29.43(52.74), =.58 | 1.39(2.30), =.55 | -.79(6.56), =.90 | .24( .38), =.52 | .92(1.14), =.42 | -.02( .17), =.90 | .24( .01, .45) | .92( .87, .95) | -.02(-.25, .21) |
| fluency | eas | gait | fas | 72 | -7.34(42.33), =.86 | .57(1.88), =.76 | -.82(9.62), =.93 | -.05( .29), =.86 | .68(2.69), =.80 | -.02( .22), =.93 | -.05(-.28, .18) | .68( .53, .78) | -.02(-.25, .21) |
| fluency | elsa | gait | fluency | 3090 | .20( .03), <.01 | .00( .00), =.62 | .00( .01), =.89 | .22( .04), <.01 | .12( .25), =.63 | .00( .02), =.89 | .22( .19, .26) | --- | .00(-.03, .04) |
| fluid reasoning | eas | gait | block | 72 | 27.14(36.19), =.45 | .04(1.69), =.98 | .38(6.15), =.95 | .29( .37), =.43 | .15(7.19), =.98 | .01( .15), =.95 | .29( .06, .49) | .15(-.08, .37) | .01(-.22, .24) |
| fluid reasoning | ilse | tug | block | 252 | -1.75(1.14), =.12 | .00( .02), =.90 | .25( .53), =.64 | --- | --- | --- | -.43(-.53,-.33) | .13( .01, .25) | .04(-.08, .17) |
| fluid reasoning | octo | gait | block | 137 | -4.56(1.84), =.01 | -.04( .09), =.68 | -.78( .73), =.28 | -.40( .13), <.01 | -.73(2.42), =.76 | -.10( .09), =.27 | -.40(-.53,-.24) | -.74(-.81,-.65) | -.10(-.27, .07) |
| fluid reasoning | lasa | gait | raven | 800 | -.70( .37), =.06 | -.01( .01), =.07 | .15( .16), =.36 | -.23( .19), =.23 | -.23( .16), =.15 | .02( .03), =.38 | -.23(-.30,-.16) | -.24(-.31,-.18) | .02(-.04, .09) |
| fluid reasoning | ilse | tug | spatial\_ab | 252 | -1.18( .78), =.13 | -.00( .01), =.85 | .18( .39), =.64 | --- | --- | --- | -.41(-.51,-.30) | -.12(-.24, .01) | .05(-.08, .17) |
| mental status | eas | gait | mmse | 72 | 2.13(5.14), =.68 | .01( .25), =.96 | .22(1.16), =.85 | .26( .63), =.67 | .14(3.05), =.96 | .03( .16), =.85 | .27( .04, .47) | .14(-.09, .36) | .03(-.20, .26) |
| mental status | hrs | gait | tics | 318 | .02( .01), =.03 | .00( .00), =.60 | -.00( .01), =.76 | --- | --- | --- | .41( .32, .50) | .00(-.11, .11) | -.01(-.12, .10) |
| perceptual speed | lasa | gait | letter | 800 | -1.88( .56), <.01 | -.04( .01), =.02 | -.22( .28), =.43 | -.30( .21), =.15 | -.32( .14), =.02 | -.03( .04), =.43 | -.31(-.37,-.24) | -.32(-.38,-.25) | -.03(-.10, .04) |
| perceptual speed | eas | gait | symbol | 72 | 1.16(35.86), =.97 | 1.24(1.96), =.53 | -1.99(9.36), =.83 | .01( .29), =.97 | .82(1.14), =.47 | -.05( .22), =.83 | .01(-.22, .24) | .82( .73, .89) | -.05(-.27, .19) |
| perceptual speed | ilse | tug | symbol | 252 | -2.28(1.38), =.10 | -.01( .02), =.68 | -.49( .46), =.28 | --- | --- | --- | -.47(-.56,-.37) | -.42(-.52,-.31) | -.09(-.21, .03) |
| perceptual speed | octo | gait | symbol | 134 | -7.59(2.84), =.01 | .00( .11), =.99 | -2.51(1.18), =.03 | -.46( .14), <.01 | .00( .98), =.99 | -.23( .09), =.01 | -.46(-.58,-.31) | .01(-.16, .18) | -.23(-.39,-.07) |
| semantic memory | eas | gait | bnt | 72 | 3.38(7.86), =.67 | .05( .48), =.92 | -.25(2.13), =.91 | .17( .38), =.64 | .27(2.80), =.92 | -.02( .20), =.91 | .18(-.06, .39) | .27( .04, .47) | -.02(-.25, .21) |
| semantic memory | eas | gait | waisvocab | 72 | -11.00(37.25), =.77 | -.46(2.15), =.83 | -3.34(12.05), =.78 | -.11( .37), =.76 | -.61(3.05), =.84 | -.06( .22), =.78 | -.11(-.33, .12) | -.61(-.74,-.44) | -.06(-.29, .17) |
| semantic memory | elsa | gait | word\_de | 3090 | .06( .01), <.01 | .00( .00), =.74 | .00( .00), =.16 | .23( .04), <.01 | -.07( .21), =.74 | .03( .02), =.16 | .23( .20, .26) | --- | .03(-.01, .06) |
| semantic memory | elsa | gait | word\_de | 3090 | .06( .01), <.01 | .00( .00), =.74 | .00( .00), =.16 | .23( .04), <.01 | -.07( .21), =.74 | .03( .02), =.16 | .23( .20, .26) | --- | .03(-.01, .06) |
| semantic memory | hrs | gait | word\_de | 318 | .01( .02), =.65 | .00( .00), =.96 | .00( .01), =.60 | --- | --- | --- | .05(-.06, .16) | .00(-.11, .11) | .02(-.09, .13) |
| semantic memory | hrs | gait | word\_de | 318 | .01( .02), =.65 | .00( .00), =.96 | .00( .01), =.60 | --- | --- | --- | .05(-.06, .16) | .00(-.11, .11) | .02(-.09, .13) |
| short-term memory | eas | gait | digit\_tot | 72 | 2.89(18.27), =.87 | .26( .60), =.66 | -.11(2.49), =.96 | .06( .37), =.87 | .71(1.50), =.63 | -.01( .18), =.96 | .06(-.18, .29) | .72( .58, .81) | -.01(-.24, .22) |
| short-term memory | elsa | gait | word\_im | 3088 | .04( .01), <.01 | .00( .00), =.44 | .00( .00), =.94 | .21( .04), <.01 | -.11( .14), =.44 | -.00( .02), =.94 | .21( .18, .25) | --- | .00(-.04, .04) |
| short-term memory | hrs | gait | word\_im | 318 | .03( .02), =.03 | .00( .00), =.74 | .00( .01), =.82 | --- | --- | --- | .27( .17, .37) | .00(-.11, .11) | .01(-.10, .12) |
| short-term memory | lasa | gait | word\_im | 800 | -1.12( .58), =.05 | .00( .02), =.85 | -.08( .29), =.77 | -.27( .20), =.17 | .10( .49), =.85 | -.01( .03), =.77 | -.27(-.33,-.20) | .11( .04, .17) | -.01(-.08, .06) |
| visual discrimination | ilse | tug | piccomp | 252 | -.32( .47), =.50 | .00( .01), =.98 | -.07( .28), =.79 | --- | --- | --- | -.23(-.35,-.11) | .00(-.12, .12) | -.03(-.15, .10) |
| working memory | octo | gait | digit\_b | 139 | -.46( .45), =.31 | -.02( .03), =.45 | -.11( .27), =.69 | -.22( .20), =.29 | -.59( .86), =.50 | -.04( .11), =.69 | -.22(-.37,-.05) | -.58(-.68,-.46) | -.04(-.21, .12) |
| NA | eas | gait | NA | 70 | --- | --- | 1.87(20.63), =.93 | --- | --- | --- | --- | --- | --- |
| NA | ilse | tug | NA | 237 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

## female

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| domain | study | phys | cog |  | tau\_levels | tau\_slopes | tau\_resid | er\_levels | er\_slopes | er\_resid | cr\_levels | cr\_slopes | cr\_resid |
| attention | octo | gait | digit\_f | 275 | -.28( .22), =.20 | -.01( .01), =.28 | -.10( .09), =.25 | -.11( .08), =.18 | -.12( .18), =.50 | -.04( .04), =.27 | -.11(-.22, .01) | -.12(-.23, .00) | -.04(-.16, .08) |
| attention | hrs | gait | serial7 | 370 | .02( .02), =.20 | .00( .00), =.60 | .01( .01), =.18 | --- | --- | --- | .12( .02, .22) | --- | .07(-.03, .17) |
| episodic memory | eas | gait | information | 130 | 7.58(13.95), =.59 | -.45( .92), =.63 | -.37(2.21), =.87 | .12( .22), =.58 | -.54(1.41), =.70 | -.02( .11), =.87 | .12(-.05, .29) | -.54(-.65,-.41) | -.02(-.19, .15) |
| episodic memory | eas | gait | logic\_tot | 150 | 6.71(12.96), =.60 | .26( .62), =.68 | .61(2.84), =.83 | .08( .15), =.60 | .31( .76), =.68 | .02( .10), =.83 | .08(-.08, .24) | .31( .16, .45) | .02(-.14, .18) |
| episodic memory | ilse | tug | waisgeneral | 225 | .16( .82), =.85 | .00( .01), =.95 | -.07( .24), =.76 | --- | --- | --- | .04(-.10, .17) | .00(-.13, .13) | -.03(-.16, .10) |
| executive function | eas | gait | trailsb | 150 | -71.87(174.08), =.68 | -1.63(5.47), =.76 | -2.30(31.24), =.94 | -.08( .19), =.68 | -.37(1.68), =.82 | -.01( .10), =.94 | -.08(-.24, .08) | -.37(-.50,-.22) | -.01(-.17, .15) |
| fluency | eas | gait | categories | 150 | 1.48(17.77), =.93 | .89(1.13), =.43 | 1.58(3.67), =.67 | .01( .13), =.93 | .38( .44), =.39 | .05( .11), =.66 | .01(-.15, .17) | .38( .23, .51) | .05(-.11, .21) |
| fluency | eas | gait | fas | 150 | 48.13(27.96), =.08 | .64( .63), =.31 | -2.60(3.11), =.40 | .26( .14), =.06 | .49( .61), =.42 | -.07( .08), =.40 | .26( .10, .40) | .49( .36, .60) | -.07(-.22, .09) |
| fluency | elsa | gait | fluency | 3510 | .15( .03), <.01 | .00( .00), =.17 | .02( .01), =.05 | .19( .03), <.01 | .22( .16), =.18 | .04( .02), =.04 | .19( .15, .22) | --- | .04( .00, .07) |
| fluency | ilse | tug | fluency | 225 | .11(1.56), =.94 | .00( .02), =.80 | -.66( .70), =.34 | --- | --- | --- | .01(-.12, .15) | .49( .38, .58) | -.10(-.23, .03) |
| fluid reasoning | eas | gait | block | 150 | 21.28(20.07), =.29 | .01( .58), =.98 | -2.59(2.83), =.36 | .17( .16), =.28 | .02( .67), =.98 | -.07( .08), =.36 | .17( .01, .32) | .02(-.14, .18) | -.07(-.23, .09) |
| fluid reasoning | ilse | tug | block | 225 | -.37(1.33), =.78 | -.00( .01), =.92 | .25( .47), =.60 | --- | --- | --- | -.05(-.18, .08) | -.15(-.27,-.02) | .05(-.08, .18) |
| fluid reasoning | octo | gait | block | 272 | -8.52(2.94), <.01 | -.21( .61), =.74 | -1.66( .65), =.01 | -.43( .12), <.01 | -.49( .61), =.42 | -.15( .05), <.01 | -.43(-.52,-.33) | -.49(-.58,-.40) | -.15(-.26,-.03) |
| fluid reasoning | lasa | gait | raven | 782 | -.95( .42), =.02 | -.02( .01), =.02 | .25( .28), =.37 | -.25( .15), =.10 | -.53( .18), <.01 | .03( .04), =.40 | -.25(-.31,-.18) | -.52(-.57,-.47) | .03(-.04, .10) |
| fluid reasoning | ilse | tug | spatial\_ab | 225 | .17(1.13), =.88 | -.00( .01), =.93 | -.35( .50), =.48 | --- | --- | --- | .03(-.10, .16) | -.30(-.42,-.18) | -.08(-.21, .05) |
| mental status | eas | gait | mmse | 72 | 2.13(5.14), =.68 | .01( .25), =.96 | .22(1.16), =.85 | .26( .63), =.67 | .14(3.05), =.96 | .03( .16), =.85 | .27( .04, .47) | .14(-.09, .36) | .03(-.20, .26) |
| mental status | hrs | gait | tics | 370 | .01( .01), =.14 | .00( .00), =.13 | .00( .01), =.70 | --- | --- | --- | .18( .07, .27) | --- | .02(-.08, .12) |
| perceptual speed | lasa | gait | letter | 782 | -2.62( .98), =.01 | -.02( .01), =.09 | -.47( .20), =.02 | -.32( .12), =.01 | -.24( .11), =.02 | -.05( .02), =.02 | -.32(-.38,-.26) | -.24(-.31,-.17) | -.05(-.12, .02) |
| perceptual speed | eas | gait | symbol | 150 | 35.06(30.82), =.26 | 1.12( .87), =.20 | -3.16(4.08), =.44 | .18( .15), =.24 | .79( .61), =.19 | -.08( .10), =.44 | .18( .02, .33) | .79( .73, .85) | -.08(-.23, .08) |
| perceptual speed | ilse | tug | symbol | 225 | -1.45(2.00), =.47 | -.00( .02), =.96 | .10( .58), =.86 | --- | --- | --- | -.13(-.26, .00) | -.09(-.22, .04) | .02(-.11, .15) |
| perceptual speed | octo | gait | symbol | 265 | -10.78(5.25), =.04 | -.26( .66), =.69 | -2.12(1.57), =.18 | -.37( .14), =.01 | -.41( .46), =.37 | -.12( .08), =.15 | -.37(-.47,-.26) | -.41(-.51,-.31) | -.12(-.24, .00) |
| semantic memory | eas | gait | bnt | 150 | 2.61(5.51), =.64 | .32( .28), =.25 | -.05(1.25), =.97 | .09( .18), =.63 | .67( .49), =.18 | -.00( .12), =.97 | .09(-.08, .24) | .66( .56, .74) | -.00(-.16, .16) |
| semantic memory | eas | gait | waisvocab | 150 | 46.20(24.11), =.06 | 1.18( .97), =.22 | 1.96(4.36), =.65 | .28( .13), =.03 | .86( .75), =.26 | .05( .10), =.65 | .28( .12, .42) | .86( .81, .89) | .05(-.11, .21) |
| semantic memory | elsa | gait | word\_de | 3510 | .05( .01), <.01 | .00( .00), =.26 | -.00( .00), =.35 | .21( .04), <.01 | .24( .22), =.27 | -.02( .02), =.35 | .21( .18, .24) | --- | -.02(-.05, .02) |
| semantic memory | elsa | gait | word\_de | 3510 | .05( .01), <.01 | .00( .00), =.26 | -.00( .00), =.35 | .21( .04), <.01 | .24( .22), =.27 | -.02( .02), =.35 | .21( .18, .24) | --- | -.02(-.05, .02) |
| semantic memory | hrs | gait | word\_de | 370 | .03( .02), =.17 | .00( .00), =.53 | .01( .01), =.15 | --- | --- | --- | .15( .05, .25) | --- | .07(-.03, .17) |
| semantic memory | hrs | gait | word\_de | 370 | .03( .02), =.17 | .00( .00), =.53 | .01( .01), =.15 | --- | --- | --- | .15( .05, .25) | --- | .07(-.03, .17) |
| short-term memory | eas | gait | digit\_tot | 150 | 7.93(7.90), =.32 | .34( .23), =.14 | .86(1.03), =.40 | .18( .16), =.29 | .65( .40), =.10 | .07( .08), =.40 | .18( .02, .33) | .65( .55, .74) | .07(-.09, .23) |
| short-term memory | octo | gait | prose\_im | 268 | -1.34(1.07), =.21 | -.07( .10), =.43 | -.40( .24), =.10 | -.14( .12), =.24 | -.23( .08), <.01 | -.06( .04), =.11 | -.14(-.25,-.02) | -.23(-.34,-.11) | -.06(-.18, .06) |
| short-term memory | elsa | gait | word\_im | 3510 | .04( .01), <.01 | .00( .00), =.12 | .00( .00), =.18 | .22( .04), <.01 | .30( .19), =.11 | .02( .02), =.18 | .22( .19, .25) | --- | .02(-.01, .05) |
| short-term memory | hrs | gait | word\_im | 370 | .04( .01), =.01 | .00( .00), =.44 | .00( .01), =.60 | --- | --- | --- | .26( .16, .35) | --- | .02(-.08, .12) |
| short-term memory | lasa | gait | word\_im | 782 | -1.74( .67), =.01 | -.01( .01), =.21 | -.37( .28), =.19 | -.31( .18), =.08 | -.28( .19), =.13 | -.02( .02), =.21 | -.31(-.37,-.25) | -.28(-.34,-.22) | -.02(-.09, .05) |
| visual discrimination | ilse | tug | piccomp | 225 | .27( .84), =.75 | .00( .01), =.90 | -.10( .31), =.74 | --- | --- | --- | .08(-.05, .21) | .17( .04, .30) | -.03(-.16, .10) |
| working memory | octo | gait | digit\_b | 275 | -.77( .31), =.01 | .01( .04), =.75 | .11( .21), =.59 | -.30( .10), <.01 | .23( .45), =.60 | .03( .06), =.58 | -.30(-.41,-.19) | .25( .13, .36) | .03(-.09, .15) |
| NA | eas | gait | NA | 127 | --- | --- | 1.46(7.83), =.85 | --- | --- | --- | --- | --- | --- |
| NA | ilse | tug | NA | 214 | --- | --- | --- | --- | --- | --- | --- | --- | --- |

# 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 2016-11-02, 11:31 -0400

R version 3.3.1 (2016-06-21)  
Platform: x86\_64-w64-mingw32/x64 (64-bit)  
Running under: Windows 10 x64 (build 14393)  
  
locale:  
[1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
[4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
  
attached base packages:  
[1] stats graphics grDevices utils datasets methods base   
  
other attached packages:  
[1] ggplot2\_2.1.0 magrittr\_1.5 knitr\_1.14   
  
loaded via a namespace (and not attached):  
 [1] Rcpp\_0.12.7 munsell\_0.4.3 colorspace\_1.2-7 R6\_2.2.0 highr\_0.6 stringr\_1.1.0   
 [7] plyr\_1.8.4 dplyr\_0.5.0 tools\_3.3.1 DT\_0.2 grid\_3.3.1 gtable\_0.2.0   
[13] DBI\_0.5-1 htmltools\_0.3.5 yaml\_2.1.13 lazyeval\_0.2.0 assertthat\_0.1 digest\_0.6.10   
[19] tibble\_1.2 readr\_1.0.0 formatR\_1.4 tidyr\_0.6.0 htmlwidgets\_0.7 evaluate\_0.10   
[25] rmarkdown\_1.1 stringi\_1.1.2 scales\_0.4.0