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**Supplementary Table 1**. Pairwise Pearson correlation matrix for 28 continuous HCP attributes. Asterisks indicate significant correlations after correcting for multiple comparisons (FDR < 0.05).

| | Handedness | Total Household Income | Years of Education Completed | Body Mass Index | Mean Hematocrit Sample | Diastolic Blood Pressure | Systolic Blood Pressure | Systolic-Diastolic Blood Pressure Ratio | Hemoglobin A1C | Pittsburgh Sleep Quality Index | NIH Picture Sequence Memory Test | NIH Dimensional Change Card Sort Test | NIH Flanker Inhibitory Control and Attention Test | Penn Progressive Matrices: Number of Correct Responses | Penn Progressive Matrices: Total Skipped Items | Penn Progressive Matrices: Median Reaction Time for |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age (in years) | **0.11*** | **0.29*** | **0.15*** | 0.07 | **-0.15*** | 0.03 | -0.08 | **-0.11*** | **0.12*** | -0.03 | -0.04 | **-0.12*** | **-0.13*** | **-0.11*** | **0.17*** | -0.01 |
| *Handedness* | | 0.02 | 0.06 | 0 | **-0.13*** | -0.02 | -0.03 | 0.01 | 0.04 | -0.06 | 0.01 | 0 | -0.05 | **-0.07*** | **0.13** | -0.03 |
| Total Household Income | | | **0.40*** | **-0.08*** | 0.02 | 0.02 | -0.02 | -0.03 | -0.07 | -0.07 | **0.13*** | **0.13*** | **0.09*** | **0.16*** | **-0.07*** | **0.09*** |
| *Years of Education Completed* | | | | **-0.13*** | 0.06 | -0.01 | -0.06 | 0 | **-0.09*** | -0.05 | **0.22*** | **0.18*** | **0.12*** | **0.32*** | **-0.15*** | **0.24*** |
| *Body Mass Index* | | | | | 0.04 | **0.32*** | **0.38*** | 0 | **0.17*** | 0.07 | **-0.11*** | **-0.12*** | -0.04 | **-0.15*** | **0.18*** | -0.07 |
| *Mean Hematocrit Sample* | | | | | | **0.16*** | **0.20*** | 0 | **-0.08*** | 0 | 0 | 0.06 | 0.07 | **0.10*** | -0.04 | **0.11*** |
| Diastolic Blood Pressure | | | | | | | **0.70*** | **-0.54*** | **0.09*** | 0.03 | **-0.11*** | 0 | 0.03 | -0.03 | **0.08*** | 0.02 |
| *Systolic Blood Pressure* | | | | | | | | **0.15*** | **0.1*** | 0.02 | **-0.13*** | 0.03 | 0.04 | -0.02 | 0.06 | 0.01 |
| Systolic-Diastolic Blood Pressure Ratio | | | | | | | | | 0 | 0 | 0.02 | 0.06 | 0.02 | 0.05 | -0.01 | 0.01 |
| Hemoglobin A1C | | | | | | | | | | 0.03 | -0.03 | -0.01 | 0.03 | **-0.08*** | **0.15*** | -0.05 |
| Pittsburgh Sleep Quality Index | | | | | | | | | | | 0 | 0 | 0 | -0.06 | **0.12*** | -0.06 |
| *NIH Picture Sequence Memory Test* | | | | | | | | | | | | **0.21*** | **0.14*** | **0.25*** | **-0.17*** | **0.11*** |
| NIH Dimensional Change Card Sort Test | | | | | | | | | | | | | **0.53*** | **0.18*** | **-0.12*** | 0.01 |
| NIH Flanker Inhibitory Control and Attention Test | | | | | | | | | | | | | | **0.13*** | -0.04 | -0.02 |
| *Penn Progressive Matrices: Number of Correct Responses* | | | | | | | | | | | | | | | **-0.86*** | **0.76*** |
| *Penn Progressive Matrices: Total Skipped Items* | | | | | | | | | | | | | | | | **-0.68*** |
| Penn Progressive Matrices: Median Reaction Time for Correct Responses | | | | | | | | | | | | | | | | |
| NIH Oral Reading Recognition Test | | | | | | | | | | | | | | | | |
| NIH Picture Vocabulary Test | | | | | | | | | | | | | | | | |
| NIH Toolbox Pattern Comparison Processing Speed Test | | | | | | | | | | | | | | | | |
| Delay Discounting: Area Under the Curve for Discounting of $200 | | | | | | | | | | | | | | | | |
| *Delay Discounting: Area Under the Curve for Discounting of $40,000* | | | | | | | | | | | | | | | | |
| *Variable Short Penn Line Orientation: Total Number Correct* | | | | | | | | | | | | | | | | |
| Variable Short Penn Line Orientation: Median Reaction Time Divided by Expected Number of Clicks for Correct | | | | | | | | | | | | | | | | |
| Variable Short Penn Line Orientation: Total Positions Off for All Trials | | | | | | | | | | | | | | | | |
| Penn Word Memory Test: Total Number of Correct Responses | | | | | | | | | | | | | | | | |
| Penn Word Memory Test: Median Reaction Time for Correct Responses | | | | | | | | | | | | | | | | |

| | Correct Responses | NIH Oral Reading Recognition Test | NIH Picture Vocabulary Test | NIH Toolbox Pattern Comparison Processing Speed Test | Discounting: Area Under the Curve for Delay Discounting of $200 | Discounting: Area Under the Curve for Delay Discounting of $40,000 | Line Orientation: Total Correct | Number Correct Variable | Short Penn Line Orientation: Median Reaction Time | Divided by Expected Number of Clicks for Correct Variable | Short Penn Line Orientation: Total Positions Off for All Trials | Penn Word Memory Test: Total Number of Correct Responses | Penn Word Memory Test: Median Reaction Time for Correct Responses | NIH List Sorting Working Memory Test |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Correct Responses | | 0.02 | **0.12*** | **-0.13*** | 0.02 | 0.01 | **-0.09*** | 0.04 | 0.13* | -0.03 | 0.14* | -0.04 | | |
| Reading Recognition Test | | -0.06 | **-0.08*** | -0.07 | -0.03 | 0.01 | **-0.08*** | -0.01 | 0.11* | -0.01 | 0.04 | -0.06 | | |
| NIH Picture Vocabulary Test | | **0.26*** | **0.23*** | **0.09*** | **0.14*** | **0.14*** | **0.10*** | -0.02 | -0.10* | 0.09* | -0.03 | 0.20* | | |
| NIH Toolbox Pattern Comparison Processing Speed Test | | **0.46*** | **0.47*** | **0.13*** | **0.22*** | **0.25*** | **0.20*** | 0.06 | -0.14* | 0.21* | -0.01 | 0.24* | | |
| Discounting: Area Under the Curve for Delay Discounting of $200 | | **-0.16*** | **-0.11*** | -0.06 | **-0.10*** | **-0.11*** | **-0.13*** | 0 | 0.14* | -0.11* | 0.03 | -0.06 | | |
| Discounting: Area Under the Curve for Delay Discounting of $40,000 | | 0.05 | **0.14*** | 0.04 | 0.01 | 0.02 | **0.11*** | 0.02 | -0.15* | -0.07 | 0 | 0.05 | | |
| Line Orientation: Total Correct | | -0.02 | -0.01 | 0.01 | -0.05 | **-0.08*** | **-0.08*** | -0.01 | 0.09* | -0.03 | 0.02 | -0.01 | | |
| Number Correct Variable | | -0.02 | **-0.09*** | -0.03 | -0.06 | -0.05 | -0.05 | -0.04 | 0.05 | -0.09* | 0 | 0 | | |
| Short Penn Line Orientation: Median Reaction Time | | 0.01 | 0.01 | 0 | 0.01 | 0.04 | 0.06 | -0.03 | -0.08* | -0.01 | -0.02 | 0.02 | | |
| Divided by Expected Number of Clicks for Correct Variable | | -0.01 | -0.10* | -0.03 | -0.01 | -0.05 | -0.05 | -0.02 | 0.11* | 0.03 | 0 | -0.09* | | |
| Short Penn Line Orientation: Total Positions Off for All Trials | | -0.02 | -0.10* | -0.08* | -0.08* | -0.11* | 0 | 0.01 | 0.02 | -0.04 | 0.03 | -0.01 | | |
| Penn Word Memory Test: Total Number of Correct Responses | | 0.03 | 0.12* | 0.13* | 0.09* | 0.03 | 0.17* | 0.01 | -0.12* | 0.23* | -0.12* | 0.32* | | |
| Penn Word Memory Test: Median Reaction Time for Correct Responses | | 0 | 0.22* | 0.14* | 0.43* | 0.03 | 0.24* | -0.10* | -0.17* | 0.13* | -0.17* | 0.19* | | |
| NIH List Sorting Working Memory Test | | 0.03 | 0.18* | 0.18* | 0.41* | 0.05 | 0.18* | -0.16* | -0.19* | 0.06 | -0.19* | 0.15* | | |
| | | 0.21* | 0.39* | 0.12* | 0.21* | 0.17* | 0.40* | 0.22* | -0.07 | 0.16* | -0.07 | 0.34* | | |
| | | -0.30* | -0.29* | -0.04 | -0.12* | -0.10* | -0.31* | -0.15* | 0.43* | -0.06 | 0.11* | -0.25* | | |
| | | 0.24* | 0.21* | -0.07 | 0.18* | 0.18* | 0.27* | 0.39* | -0.30* | 0.07* | 0.11* | 0.14* | | |
| | | | 0.65* | 0.15* | 0.22* | 0.23* | 0.35* | 0.05 | -0.39* | 0.24* | -0.15* | 0.33* | | |
| | | | | 0.13* | 0.25* | 0.25* | 0.31* | 0.02 | -0.35* | 0.21* | -0.17* | 0.32* | | |
| | | | | | 0.01 | 0.03 | 0.14* | -0.15* | -0.14* | 0.10* | -0.28* | 0.19* | | |
| | | | | | | 0.70* | 0.16* | 0.07 | -0.16* | 0.10* | -0.03 | 0.11* | | |
| | | | | | | | 0.17* | 0.05 | -0.19* | 0.11* | -0.05 | 0.10* | | |
| | | | | | | | | 0.13* | -0.92* | 0.14* | -0.01 | 0.26* | | |
| | | | | | | | | | -0.13* | 0.08* | 0.27* | -0.01 | | |
| | | | | | | | | | | -0.12* | 0.02 | -0.27* | | |
| | | | | | | | | | | | -0.26* | 0.11* | | |
| | | | | | | | | | | | | -0.13* | | |