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

|                          | Age (in years) | Handedness | Total Household Income | Years of Education Completed | 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 |
|--------------------------|---------------|------------|------------------------|-------------------------------|------------------------|-------------------------|--------------------------|------------------------------------------|----------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------------------------|--------------------------------|
| Age (in years)           | -0.01         | 0.17*      | -0.11*                 | -0.12*                        | -0.04                  | -0.03                   | 0.12*                    | -0.11*                                   | 0.08           | 0.03                          | -0.15*                       | 0.15*                         | 0.29*                          | -0.11*                                   | -0.68*                          |
| Handedness              | -0.03         | 0.13       | 0.07*                  | 0.05                          | -0.05                  | 0                       | 0.01                     | -0.06                                    | -0.04          | 0.04                          | 0.01                          | -0.03                        | -0.02                          | -0.13*                                   | 0.06                            |
| Total Household Income   | 0.09*         | -0.07*     | 0.16*                  | 0.09*                         | 0.13*                  | 0.13*                   | -0.07                    | -0.07                                    | 0.03           | -0.02                         | 0.02                          | 0.02                          | -0.08*                         | -0.40*                                   | 0.04                            |
| Years of Education       | 0.24*         | -0.15*     | 0.32*                  | 0.12*                         | 0.18*                  | 0.22*                   | -0.05                    | -0.09*                                   | 0.06           | -0.06                         | -0.01                        | 0.06                          | -0.13*                         | 0.40*                                   | 0.13*                          |
| Mean Hematocrit Sample   | -0.07         | 0.18*      | -0.15*                 | -0.04                         | -0.12*                 | -0.11*                  | 0.07                     | 0.17*                                    | 0.08           | 0.02                          | 0.20*                         | 0.16*                         | 0.38*                          | 0.32*                                   | 0.04                            |
| Diastolic Blood Pressure | 0.11*         | -0.04      | 0.10*                  | 0.07                          | 0.06                   | 0                       | 0                        | 0.08*                                    | 0.03           | -0.03                         | 0.09*                         | -0.54*                         | 0.70*                          | 0.70*                                   | 0.04                            |
| Systolic Blood Pressure  | 0.02          | 0.08*      | -0.03                  | 0.03                          | 0                      | -0.11*                  | 0.03                     | 0.09*                                   | -0.54*          | 0.70*                         | 0.70*                         | 0.70*                         | 0.70*                          | 0.70*                                   | 0.04                            |
| Systolic-Diastolic Blood Pressure Ratio | -0.01 | -0.03 | 0.05 | 0.02 | 0.06 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -0.02 | 0.13* | NIH Flanker Inhibitory Control and Attention Test |
| Hemoglobin A1C           | 0.15*         | 0.15*      | 0.08*                  | 0.03                          | 0                      | 0.01                    | 0.03                     | 0.03                                    | 0.03           | 0.03                          | 0.03                          | 0.03                          | 0.03                          | 0.03                                   | 0.03                            |
| Pittsburgh Sleep Quality Index | 0.05 | 0.12* | 0.06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -0.11* | -0.17* | NIH Picture Sequence Memory Test |
| NIH Picture Sequence Memory Test | 0.11* | -0.17* | 0.25* | 0.14* | 0.21* | NIH Dimensional Change Card Sort Test | 0.01 | -0.12* | 0.18* | 0.53* | NIH Flanker Inhibitory Control and Attention Test | -0.02 | -0.04 | 0.13* | Penn Progressive Matrices: Number of Correct Responses |
| NIH Dimensional Change Card Sort Test | 0.76* | -0.86* | Penn Progressive Matrices: Median Reaction Time for Correct Responses |
| Penn Progressive Matrices: Number of Correct Responses | -0.68* | Penn Progressive Matrices: Total Skipped Items |
| 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 |
| Positions Off | Discounting | Orientation | NIH Toolbox | Comparison | Short Penn Test | Total Median | Orientation | NIH Oral Reading | NIH Paint Test | NIH Plot Test | NIH Plot Test | NIH Plot Test | NIH Plot Test | NIH Plot Test | NIH Plot Test | NIH Plot Test | NIH Plot Test |
|---------------|-------------|-------------|-------------|-----------|----------------|--------------|-------------|-----------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| -0.04         | 0.14*       | -0.03       | 0.13*       | 0.04      | -0.09*         | 0.01         | 0.02        | -0.13*          | 0.12*        | 0.02        |              |              |              |              |              |              |              |
| -0.06         | 0.04        | -0.01       | 0.11*       | -0.01     | -0.08*         | 0.01         | -0.03       | -0.07          | -0.08*       | -0.06       |              |              |              |              |              |              |              |
| 0.20*         | -0.03       | 0.09*       | -0.10*      | -0.02     | 0.10*          | 0.14*        | 0.14*       | 0.09*           | 0.23*        | 0.26*       |              |              |              |              |              |              |              |
| 0.24*         | -0.01       | 0.21*       | -0.14*      | 0.06      | 0.20*          | 0.25*        | 0.22*       | 0.13*           | 0.47*        | 0.46*       |              |              |              |              |              |              |              |
| -0.06         | 0.03        | -0.11*      | 0.14*       | 0         | -0.13*         | -0.11*       | -0.10*      | -0.06           | -0.11*       | -0.16*      |              |              |              |              |              |              |              |
| 0.05          | 0           | -0.07       | -0.15*      | 0.02      | 0.11*          | 0.02         | 0.01        | 0.04            | 0.14*        | 0.05        |              |              |              |              |              |              |              |
| -0.01         | 0.02        | -0.03       | 0.09*       | -0.01     | -0.08*         | -0.08*       | 0.05        | -0.01           | -0.02        | -0.01       |              |              |              |              |              |              |              |
| 0             | 0           | -0.09*      | 0.05        | -0.04     | -0.05          | -0.05        | 0           | -0.02           | -0.02        | -0.01       |              |              |              |              |              |              |              |
| 0.02          | -0.02       | -0.01       | -0.08*      | -0.03     | 0.06           | 0.04         | -0.01       | 0.01            | 0.03         |              |              |              |              |              |              |              |              |
| -0.09*        | 0           | 0.03        | 0.11*       | -0.02     | -0.05          | -0.05        | -0.01       | -0.03           | -0.09*       | -0.10*      |              |              |              |              |              |              |              |
| -0.01         | 0.03        | -0.04       | 0.02        | 0.01      | 0              | -0.11*       | -0.12*      | -0.03           | -0.08*       | -0.10*      |              |              |              |              |              |              |              |
| 0.32*         | -0.12*      | 0.23*       | -0.17*      | 0.01      | 0.17*          | 0.03         | 0.09*       | 0.18*           | 0.13*        | 0.12*       |              |              |              |              |              |              |              |
| 0.19*         | -0.17*      | 0.13*       | -0.24*      | -0.10*    | 0.24*          | 0.03         | 0           | 0.43*           | 0.14*        | 0.22*       |              |              |              |              |              |              |              |
| 0.15*         | -0.19*      | 0.06        | -0.21*      | -0.16*    | 0.18*          | 0.05         | 0.03        | 0.41*           | 0.18*        | 0.18*       |              |              |              |              |              |              |              |
| 0.34*         | -0.07       | 0.16*       | -0.42*      | 0.22*     | 0.40*          | 0.17*        | 0.21*       | 0.12*           | 0.39*        | 0.39*       |              |              |              |              |              |              |              |
| -0.25*        | 0.11*       | -0.06       | 0.43*       | -0.15*    | -0.31*         | -0.10*       | -0.12*      | -0.04           | -0.29*       | -0.30*      |              |              |              |              |              |              |              |
| 0.14*         | 0.11*       | 0.07*       | -0.30*      | 0.39*     | 0.27*          | 0.18*        | 0.18*       | -0.07          | 0.21*        | 0.24*       |              |              |              |              |              |              |              |
| 0.33*         | -0.15*      | 0.24*       | -0.39*      | 0.05      | 0.35*          | 0.23*        | 0.22*       | 0.15*           | 0.65*        |              |              |              |              |              |              |              |              |
| 0.32*         | -0.17*      | 0.21*       | -0.35*      | 0.02      | 0.31*          | 0.25*        | 0.25*       | 0.13*           |              |              |              |              |              |              |              |              |              |
| 0.19*         | -0.28*      | 0.10*       | -0.14*      | -0.15*    | 0.14*          | 0.03         | 0.01        |                 |              |              |              |              |              |              |              |              |              |
| 0.11*         | -0.03       | 0.10*       | -0.16*      | 0.07      | 0.16*          | 0.70*        |              |                 |              |              |              |              |              |              |              |              |              |
| 0.10*         | -0.05       | 0.11*       | -0.19*      | 0.05      | 0.17*          |              |              |                 |              |              |              |              |              |              |              |              |              |
| 0.26*         | -0.01       | 0.14*       | -0.92*      | 0.13*     |                |              |              |                 |              |              |              |              |              |              |              |              |              |
| -0.01         | 0.27*       | 0.08*       | -0.13*      |          |                |              |              |                 |              |              |              |              |              |              |              |              |              |
| -0.27*        | 0.02        | -0.12*      |          |          |                |              |              |                 |              |              |              |              |              |              |              |              |              |
| 0.11*         | -0.26*      |            |            |          |                |              |              |                 |              |              |              |              |              |              |              |              |              |
| -0.13*        |            |            |            |          |                |              |              |                 |              |              |              |              |              |              |              |              |              |
