SUPPLEMENTARY TABLE S2. DESCRIPTION OF CATEGORIZED BEHAVIORAL MEASURES EMPLOYED IN THIS WORK

Category: Alertness

Variable name	Description	Values

Instrument: Cognitive Status (Mini Mental Status Exam/MMSE)

| 1. MMSE Score | Mini Mental Status Exam Total Score | |

Instrument: Sleep (Pittsburgh Sleep Questionnaire/PSQI)

| 2. PSQI Score | Sleep (Pittsburgh Sleep Questionnaire) Total Score | |

Category: Cognition

Variable name	Description	Values

Instrument: Episodic Memory (Picture Sequence Memory)

| 3. Picture Sequence Unadjusted | NIH Toolbox Picture Sequence Memory Test Unadjusted Scale Score | |
| 4. Picture Sequence Adjusted | NIH Toolbox Picture Sequence Memory Test Age-Adjusted Scale Score | |

Instrument: Executive Function/Cognitive Flexibility (Dimensional Change Card Sort)

| 5. Card Sort Unadjusted | NIH Toolbox Dimensional Change Card Sort Test Unadjusted Scale Score | |
| 6. Card Sort Adjusted | NIH Toolbox Dimensional Change Card Sort Test Age-Adjusted Scale Score | |

Instrument: Executive Function/Inhibition (Flanker Task)

| 7. Flanker Task Unadjusted | NIH Toolbox Flanker Inhibitory Control and Attention Test Unadjusted Scale Score | |
| 8. Flanker Task Adjusted | NIH Toolbox Flanker Inhibitory Control and Attention Test Adjusted Scale Score | |

Instrument: Fluid Intelligence (Penn Progressive Matrices)

9. PMAT24_A_CR	Penn Matrix Test: Number of Correct Responses	0–24
10. PMAT24_A_SI	Penn Matrix Test: Total Skipped Items (items not presented because maximum errors allowed reached)	0–19
11. PMAT24_A_RTCR	Penn Matrix Test: Median Reaction Time for Correct Responses	Typical range: 2730–51,730

Instrument: Language/Reading Decoding (Oral Reading Recognition)

| 12. Reading Test Unadjusted | NIH Toolbox Oral Reading Recognition Test Unadjusted Scale Score | |
| 13. Reading Test Adjusted | NIH Toolbox Oral Reading Recognition Test Adjusted Scale Score | |

Instrument: Language/Receptive vocabulary

| 14. Picture Vocabulary Test Unadjusted | NIH Toolbox Picture Vocabulary Test Unadjusted Scale Score | |
| 15. Picture Vocabulary Test Adjusted | NIH Toolbox Picture Vocabulary Test Adjusted Scale Score | |

Instrument: Processing Speed (Pattern Completion Processing Speed)

| 16. Processing Speed Unadjusted | NIH Toolbox Pattern Comparison Processing Speed Test Unadjusted Scale Score | |
| 17. Processing Speed Adjusted | NIH Toolbox Pattern Comparison Processing Speed Test Adjusted Scale Score | |

Instrument: Self-regulation/Impulsivity (Delay Discounting)

18. SV_1mo_200	Subjective Value for $200 at 1 month	0–200
19. SV_6mo_200	Subjective Value for $200 at 6 months	0–200
20. SV_3yr_200	Subjective Value for $200 at 3 years	0–200
21. SV_1yr_200	Subjective Value for $200 at 1 year	0–200
22. SV_5yr_200	Subjective Value for $200 at 5 years	0–200
23. SV_10yr_200	Subjective Value for $200 at 10 years	0–200
24. SV_1mo_40K	Subjective Value for $40,000 at 1 month	0–40,000
25. SV_6mo_40K	Subjective Value for $40,000 at 6 months	0–40,000
26. SV_1yr_40K	Subjective Value for $40,000 at 1 year	0–40,000
27. SV_3yr_40K	Subjective Value for $40,000 at 3 years	0–40,000
28. SV_5yr_40K	Subjective Value for $40,000 at 5 years	0–40,000
29. SV_10yr_40K	Subjective Value for $40,000 at 10 years	0–40,000
30. AUC_200	Area Under the Curve for Discounting of $200	0.0–1.0
31. AUC_40K	Area Under the Curve for Discounting of $40,000	0.0–1.0

Instrument: Spatial Orientation (Variable Short Penn Line Orientation Test)

| 32. VSPLOT_TC | Penn Line Orientation: Total Number Correct | 0–24 |
| 33. VSPLOT_CRTE | Penn Line Orientation: Median Reaction Time Divided by Expected Number of Clicks for Correct Trials | Typical range: 640–2800 |

Category: Cognition

Variable name	Description	Values
34. VSPLOT_OFF	Penn Line Orientation: Total Positions Off for All Trials	0–165
Instrument: Sustained Attention (Short Penn Continuous Performance Test)		
35. SCPT_TP	Short Penn CPT True Positives = Sum of CPN_TP and CPL_TP	0–60
36. SCPT_TN	Short Penn CPT True Negatives = Sum of CPN_TN and CPL_TPN	0–120
37. SCPT_FP	Short Penn CPT False Positives = Sum of CPN_FP and CPL_FP	0–120
38. SCPT_FN	Short Penn CPT False Negatives = Sum of CPN_FN and CPL_FN	0–60
39. SCPT_TPRT	Short Penn CPT Median Response Time for True Positive Responses	0–1000 msec
40. SCPT_SEN	Short Penn CPT Sensitivity = SCPT_TP/ (SCPT_TP + SCPT_FN)	Typical range: 0.8–1.0
41. SCPT_SPEC	Short Penn CPT Specificity = SCPT_TN/ (SCPT_TN + SCPT_FP)	Typical range: 0.8–1.0
42. CPT_LRNR	Short Penn CPT Longest Run of Nonresponses)	5–16
Instrument: Verbal Episodic Memory (Penn Word Memory Test)		
43. IWRD_TOT	Penn Word Memory: Total Number of Correct Responses	0–40
44. IWRD_RTC	Penn Word Memory: Median Reaction Time for Correct Responses	Typical range: 1100–3200
Instrument: Working Memory (List Sorting)		
45. List Sorting Unadjusted	NIH Toolbox List Sorting Working Memory Test Unadjusted Scale Score	
46. List Sorting Adjusted	NIH Toolbox List Sorting Working Memory Test Adjusted Scale Score	

Category: Emotion

Variable name	Description	Values
Instrument: Emotion Recognition (Penn Emotion Recognition Test)		
47. ER40_CR	Penn Emotion Recognition: Number of Correct Responses	0–40
48. ER40_CRT	Penn Emotion Recognition: Correct Responses Median Response Time (ms)	Typical range: 1435–2746
49. ER40ANG	Penn Emotion Recognition: Correct Anger Identifications	0–8
50. ER40FEAR	Penn Emotion Recognition: Correct Fear Identifications	0–8
51. ER40HAP	Penn Emotion Recognition: Correct Happy Identifications	0–8
52. ER40NOE	Penn Emotion Recognition: Correct Neutral Identifications	0–8
53. ER40SAD	Penn Emotion Recognition: Correct Sad Identifications	0–8
Instrument: Negative Affect		
54. Anger-Affect	NIH Toolbox Anger-Affect Survey	
55. Anger-Hostility	NIH Toolbox Anger-Hostility Survey	
56. Anger-Aggression	NIH Toolbox Anger-Physical Aggression Survey	
57. Fear-Affect	NIH Toolbox Fear-Affect Survey	
58. Fear-Somatic	NIH Toolbox Fear-Somatic Arousal Survey	
59. Sadness	NIH Toolbox Sadness Survey	
Instrument: Psychological Well-being		
60. Life Satisfaction	NIH Toolbox General Life Satisfaction Survey	
61. Meaning and Purpose	NIH Toolbox Meaning and Purpose Survey	
62. Positive Affect	NIH Toolbox Positive Affect Survey	
Instrument: Social Relationships		
63. Friendship	NIH Toolbox Friendship Survey	
64. Loneliness	NIH Toolbox Loneliness Survey	
65. Perceived Hostility	NIH Toolbox Perceived Hostility Survey	
66. Perceived Rejection	NIH Toolbox Perceived Rejection Survey	

Category: Cognition

Variable name	Description	Values
67. Emotional Support	NIH Toolbox Emotional Support Survey	
68. Instrumental Support	NIH Toolbox Instrumental Support Survey	
Instrument: Stress and Self Efficacy		
69. Perceived Stress	NIH Toolbox Perceived Stress Survey	
70. Self-Efficacy	NIH Toolbox Self-Efficacy Survey	

Category: Personality

Variable name	Description	Values
Instrument: Five-Factor Model (NEO-FFI)		
71. NEOFAC_A	NEO-FFI Agreeableness	Typical range: 19–44
72. NEOFAC_O	NEO-FFI Openness	14–42
73. NEOFAC_C	NEO-FFI Conscientiousness	23–46
74. NEOFAC_N	NEO-FFI Neuroticism	4–36
75. NEOFAC_E	NEO-FFI Extroversion	11–45

For more details, please refer to HCP Q3 release manual (http://humanconnectome.org/documentation/Q3/Q3_Release_Reference_Manual.pdf).