

# HCP Data Dictionary Public- Updated for the 1200 Subject Release

***Updated version of the HCP Data Dictionary for the 1200 Subjects Release is now available as a spreadsheet:***

Excel version: [HCP\\_S1200\\_DataDictionary\\_April\\_20\\_2018.xlsx](#)

CSV version: [HCP\\_S1200\\_DataDictionary\\_April\\_20\\_2018.csv](#)

***Up to date variable descriptions are also viewable within the ConnectomeDB subject dashboard by mousing over the column name or selecting Data Dictionary from the column name dropdown.***

***Note: Much of the information below is out of date or incomplete-- please download the spreadsheet at the link above for current variable descriptions.***

Dashboard filtering starts at the Category level, and each category is represented by a separate data table in the ConnectomeDB interface. Multiple data tables are arranged in a tabbed format.

Each "Instrument" contains multiple "Attributes" - these attributes correspond to actual columns of data in ConnectomeDB.

## All Categories and Instruments

- Updated version of the HCP Data Dictionary for the 1200 Subjects Release is now available as a spreadsheet:
  - Excel version: [HCP\\_S1200\\_DataDictionary\\_April\\_20\\_2018.xlsx](#)
  - CSV version: [HCP\\_S1200\\_DataDictionary\\_April\\_20\\_2018.csv](#)
  - Up to date variable descriptions are also viewable within the ConnectomeDB subject dashboard by mousing over the column name or selecting Data Dictionary from the column name dropdown.
  - Note: Much of the information below is out of date or incomplete-- please download the spreadsheet at the link above for current variable descriptions.

### Category: Subject Information

- Instrument: Demographics

### Category: Study Completion

- Instrument: Study Completion: 3T MR
- Instrument: Image Reconstruction Info: 3T MR
- Instrument: Study Completion - MEG
- Instrument: Study Completion - Behavioral

### Category: MR Sessions

- Instrument: Session Information

### Category: Health and Family History

- Instrument: Physical Health
- Instrument: Family History of Psychiatric and Neurologic Disorders

### Category: Alertness

- Instrument: Cognitive Status (Mini Mental Status Exam)
- Excluded Fields: Cognitive Status (Mini Mental Status Exam)
- Instrument: Sleep (Pittsburgh Sleep Questionnaire)
- Excluded Instrument Fields: Sleep (Pittsburgh Sleep Questionnaire)

### Category: Cognition

- Instrument: Episodic Memory (Picture Sequence Memory)
- Instrument: Executive Function/Cognitive Flexibility (Dimensional Change Card Sort)
- Instrument: Executive Function/Inhibition (Flanker Task)
- Instrument: Fluid Intelligence (Penn Progressive Matrices)
- Instrument: Language/Reading Decoding (Oral Reading Recognition)
- Instrument: Language/Vocabulary Comprehension (Picture Vocabulary)
- Instrument: Processing Speed (Pattern Completion Processing Speed)
- Instrument: Self-regulation/Impulsivity (Delay Discounting)
- Instrument: Spatial Orientation (Variable Short Penn Line Orientation Test)
- Instrument: Sustained Attention (Short Penn Continuous Performance Test)
- Instrument: Verbal Episodic Memory (Penn Word Memory Test)

- Instrument: Working Memory (List Sorting)

Category: Emotion

- Instrument: Emotion Recognition (Penn Emotion Recognition Test)
- Instrument: Negative Affect
- Instrument: Psychological Well-being
- Instrument: Social Relationships
- Instrument: Stress and Self Efficacy

Category: FreeSurfer

- Instrument: FreeSurfer Summary Statistics
- Instrument: Volume (Subcortical) Segmentation
- Instrument: Surface Area
- Instrument: Surface Thickness

Category: Motor

- Instrument: Endurance (2 minute walk test)
- Instrument: Locomotion (4-meter walk test)
- Instrument: Dexterity (9-hole Pegboard)
- Instrument: Strength (Grip Strength Dynamometry)

Category: Personality

- Instrument: Five Factor Model (NEO-FFI)

Category: Psychiatric and Life Function

- Restricted Instrument: Life Function (Achenbach Adult Self-Report, Syndrome Scales and DSM-Oriented Scale)
- Restricted Instrument: Psychiatric History
- 

Category: Sensory

- Instrument: Audition (Words in Noise)
- Instrument: Olfaction (Odor Identification Test)
- Instrument: Pain (Pain Intensity and Interference Surveys)
- Instrument: Taste (Taste Intensity Test)
- Instrument: Vision (EVA Scores and Farnsworth Test)
- Instrument: Contrast Sensitivity (Mars Contrast Sensitivity)

Category: Substance Use

- Instrument: Breathalyzer and Drug Test Results
- Instrument: Alcohol Use 7-Day Retrospective
- Instrument: Alcohol Use and Dependence
- Instrument: Tobacco Use 7-Day Retrospective
- Instrument: Tobacco Use and Dependence
- Instrument: Illicit Drug Use
- Instrument: Marijuana Use and Dependence

## Category: Subject Information

### Instrument: Demographics

Display Name (in menu)	Column Header	Access	Validation	(Enumerated) Values	Comparators	Description
Subject	Subject	Open	^[A-z0-9_.,] +\$		=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	HCP Subject ID
Quarterly Release	Release	Open		<ul style="list-style-type: none"> <li>• Q1</li> <li>• Q2</li> <li>• Q3</li> <li>• 500</li> </ul>	=	HCP data release in which this subject's data was initially published to ConnectomeDB. Note: "Release" does not indicate the version of the pipelines used to process subject data. Check the release-notes distributed with each processed dataset for pipeline version information.
Gender	Gender	Open		<ul style="list-style-type: none"> <li>• M</li> <li>• F</li> </ul>	=	Gender of Subject
Age Range	Age	Open		<ul style="list-style-type: none"> <li>• 22-25</li> <li>• 26-30</li> <li>• 31-35</li> <li>• &gt;35</li> </ul>	=	Age group of Participant, banded in five-year increments

Age in Years	Age_in_Yrs	<b>Tier 1 Restricted</b>	^[0-9]+\$		=, NOT =, <, >	Age of Participant in Years
Twin Status	Twin_Stat	<b>Tier 1 Restricted</b>		<ul style="list-style-type: none"> <li>• Not a twin</li> <li>• Twin</li> </ul>	=, NOT =	
Zygoty	Zygoty	<b>Tier 1 Restricted</b>		<ul style="list-style-type: none"> <li>• Not a twin</li> <li>• Monozygotic</li> <li>• Not Monozygotic</li> </ul>	=, NOT =	
Mother ID	Mother_ID	<b>Tier 1 Restricted</b>	^[0-9]+\$		=, NOT =	
Father ID	Father_ID	<b>Tier 1 Restricted</b>	^[0-9]+\$		=, NOT =	
Race	Race	<b>Tier 1 Restricted</b>		<ul style="list-style-type: none"> <li>• Am. Indian /Alaskan Nat.</li> <li>• Asian/Nat. Hawaiian /Othr Pacific Is.</li> <li>• Black or African Am.</li> <li>• White</li> <li>• More than one</li> <li>• Unknown or Not Reported</li> </ul>	=, NOT =	
Ethnicity	Ethnicity	<b>Tier 1 Restricted</b>		<ul style="list-style-type: none"> <li>• Hispanic /Latino</li> <li>• Not Hispanic /Latino</li> <li>• Unknown or Not Reported</li> </ul>	=, NOT =	
Handedness	Handedness	<b>Tier 1 Restricted</b>	^[+-]?([0-9]{1,2} 100)\$		=, NOT =, <, >	Handedness of participant from -100 to 100. Negative numbers indicate that a subject is more left-handed than right-handed, while positive numbers indicate that a subject is more right-handed than left-handed. See Schachter et al., Associations of handedness with hair color and learning disabilities. Neuropsychologia, 25:269-276, 1987. for more information on how these laterality scores are calculated.
Employment Status	SSAGA_Employ	<b>Tier 1 Restricted</b>				Participant's employment status: not working = 0, part-time employment = 1; full-time employment = 2
Income	SSAGA_Income	<b>Tier 1 Restricted</b>				Total household income: <\$10,000 = 1, 10K-19,999 = 2, 20K-29,999 = 3, 30K-39,999 = 4, 40K-49,999 = 5, 50K-74,999 = 6, 75K-99,999 = 7, >=100,000 = 8
Education	SSAGA_Educ	<b>Tier 1 Restricted</b>				Years of education completed: <11 = 11; 12; 13; 14; 15; 16; 17+ = 17
Still in School	SSAGA_InSchool	<b>Tier 1 Restricted</b>				Is respondent still in school for degree course? no = 0; yes = 1
Relationship Status	SSAGA_Relshp	<b>Tier 1 Restricted</b>				Is respondent married or in live-in relationship? no = 0; yes = 1
Missouri Born	SSAGA_MOBorn	<b>Tier 1 Restricted</b>				Is respondent Missouri born? no = 0; yes = 1

[ [Category: Subject Information](#) ] [ [Category: Study Completion](#) ] [ [Category: MR Sessions](#) ] [ [Category: Health and Family History](#) ] [ [Category: Alertness](#) ] [ [Category: Cognition](#) ] [ [Category: Emotion](#) ] [ [Category: FreeSurfer](#) ] [ [Category: Motor](#) ] [ [Category: Personality](#) ] [ [Category: Psychiatric and Life Function](#) ] [ [Category: Sensory](#) ] [ [Category: Substance Use](#) ]

## Category: Study Completion

Instrument: Study Completion: 3T MR

Display Name (in menu)	Column Header	Access	Validation	(Enumerated) Values	Comparators	Description
Full Imaging Protocol Completed	Full_MR_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full HCP MRI protocol was completed
T1 Scan Count	T1_Count	Open		0,1,2	=,NOT =,<,>	Number of T1 scans collected
T2 Scan Count	T2_Count	Open		0,1,2	=,NOT =,<,>	Number of T2 scans collected
Resting State fMRI Count	RS-fMRI_Count	Open		0,1,2,3,4	=,NOT =,<,>	Number of resting state scans collected
Full Task fMRI Protocol Completed	Full_Task_fMRI	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full task fMRI protocol was completed
Task fMRI – Working Memory Completed	fMRI_WM_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Working memory task fMRI was collected
Task fMRI – Gambling Completed	fMRI_Gamb_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Gambling task fMRI was collected
Task fMRI – Motor Completed	fMRI_Mot_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Motor task fMRI was collected
Task fMRI – Language Completed	fMRI_Lang_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Language task fMRI was collected
Task fMRI – Social Cognition Completed	fMRI_Soc_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Social cognition task fMRI was collected
Task fMRI – Relational Processing Completed	fMRI_Rel_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Relational processing task fMRI was collected
Task fMRI – Emotion Processing Completed	fMRI_Emo_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Emotion processing task fMRI was collected
Diffusion MRI Completed	dMRI_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full diffusion MRI protocol was collected

### Instrument: Image Reconstruction Info: 3T MR

Display Name (in menu)	Column Header	Access	Validation	(Enumerated) Values	Comparators	Description
3T MR dMRI Recon Version	dMRI_3T_ReconVrs	Open				
3T MR fMRI Recon Version	fMRI_3T_ReconVrs	Open				

### Instrument: Study Completion - MEG

Display Name (in menu)	Column Header	Access	Validation	(Enumerated) Values	Comparators	Description
Any MEG Data Available	MEG_AnyData	Open		True False	=	
Full Protocol Complete	MEG_FullProt_Compl	Open		True False	=	
Head Model Available	MEG_HeadModel_Avail	Open		True False	=	
Cortical Ribbon Available	MEG_CortRibn_Avail	Open		True False	=	
Anatomy Data Available	MEG_Anatomy_Avail	Open		True False	=	
Anatomy Data Complete	MEG_Anatomy_Compl	Open		True False	=	
Noise Data Available	MEG_Noise_Avail	Open		True False	=	

Noise Data Complete	MEG_Noise_Compl	Open		True False	=	
Resting State Data Available	MEG_RS_Avail	Open		True False	=	
Resting State Data Complete	MEG_RS_Compl	Open		True False	=	
Working Memory Data Available	MEG_WM_Avail	Open		True False	=	
Working Memory Data Complete	MEG_WM_Compl	Open		True False	=	
Story Math Data Available	MEG_StoryMath_Avail	Open		True False	=	
Story Math Data Complete	MEG_StoryMath_Compl	Open		True False	=	
Motor Data Available	MEG_Motor_Avail	Open		True False	=	
Motor Data Complete	MEG_Motor_Compl	Open		True False	=	

## Instrument: Study Completion - Behavioral

Display Name	Column Header	Access	Validation	(Enumerated) Values	Comparators	Description
Full Non-Toolbox Battery Completed	Non-TB_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full non-NIH Toolbox behavioral battery was completed
Visual Processing Completed	VisProc_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Mars Contrast Sensitivity Test (Visual Processing) was completed
Delay Discounting Completed	DelDisc_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Self-regulation/Impulsivity (Delay Discounting) assessment was completed
Short Penn Continuous Performance Test (SCPT) Completed	SCPT_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Short Penn Continuous Performance Test (SCPT) (Sustained Attention) was completed
Penn Word Memory Test (IWRD) Completed	IWRD_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Penn Word Memory Test (IWRD) (Verbal Episodic Memory) was completed
Penn Matrix Test (PMAT) Completed	PMAT_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Fluid Intelligence (Penn Progressive Matrices) was completed
Variable Short Penn Line Orientation Test (VSPLIT) Completed	VSPLIT_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Spatial Orientation (Variable Short Penn Line Orientation Test) was completed
Emotion Recognition (Penn Emotion Recognition Test) Completed	EmoRecog_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Emotion Recognition (Penn Emotion Recognition Test) was completed
Five Factor Model (NEO-FFI) Completed	NEO-FFI_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Five Factor Model (NEO-FFI) was completed
Achenbach Adult Self Report (ASR) - Syndrome Scale Completed	ASR-Syn_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Achenbach Adult Self Report (ASR) - Syndrome Scale was completed
Achenbach Adult Self Report (ASR) - DSM-Oriented Scale Completed	ASR-DSM_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Achenbach Adult Self Report (ASR) - DSM-Oriented Scale was completed
Full NIH Toolbox Battery Completed	Toolbox_Compl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full NIH Toolbox behavioral battery was completed
Mini Mental State Examination (MMSE) Completed	MMSE_Score	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Mini Mental State Examination (MMSE) was completed

Pittsburgh Sleep Quality Index (PSQI) Completed	PSQI_Score	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Pittsburgh Sleep Quality Index (PSQI) was completed
Full Alertness Battery Completed	Alert_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	Full alertness battery was completed
Alcohol and Smoking Questionnaire (ASQ) Completed	ASQ_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
Family Psychiatric and Neuro.	FamPsychNeuro_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Demographics Completed	SSAGA_Demo_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Mental Health Completed	SSAGA_Mental_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Alcohol Use and Dependence Completed	SSAGA_Alc_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Illicit Drug Use and Dependence Completed	SSAGA_Illicit_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Tobacco Use and Dependence Completed	SSAGA_Tob_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	
SSAGA Marijuana Use and Dependence Completed	SSAGA_Mj_Cmpl	Open		<ul style="list-style-type: none"> <li>• True</li> <li>• False</li> </ul>	=	

## Category: MR Sessions

### Instrument: Session Information

Display Name (in menu)	Column Header	Access	Validation	Comparators	Description
MR Session Label	MRsession_Label	Open	^[A-z0-9_]+	=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	
MR Session Scanner	MRsession_Scanner	Open	^[A-z0-9_]+	=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	
MR Session Scans	MRsession_Scans	Open	^[A-z0-9_]{0}+	=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	

## Category: Health and Family History

### Instrument: Physical Health

Display Name (in menu)	Column Header	Access	Validation	Comparators	Description
Height	Height	<b>Tier 1 Restricted</b>	^[0-9]+	=, NOT =, <, >	Height of Participant in Inches
Weight	Weight	<b>Tier 1 Restricted</b>	^[0-9]+	=, NOT =, <, >	Weight of Participant in Pounds

Body Mass Index	BMI	<b>Tier 1 Restricted</b>	^[0-9]+\$	=, NOT =, <, >	BMI = 703 * weight (lb) / (height in.)^2
BMI Category	SSAGA_BMICat	<b>Tier 1 Restricted</b>	^[0-9]+\$	=, NOT =, <, >	Participant's current self-reported BMI category: lean/underweight = 1; overweight = 2; obese =3 ; obese II or III (BMI>=35) = 4
BMI Category Heaviest	SSAGA_BMICatHeaviest	<b>Tier 1 Restricted</b>	^[0-9]+\$	=, NOT =, <, >	Participant' self-reported BMI category for their heaviest period: lean /underweight = 1; overweight = 2; obese =3 ; obese II or III (BMI>=35) = 4
Blood Drawn?	Blood_Drawn	<b>Tier 1 Restricted</b>		=	Was blood drawn from participant for hematocrit, TSH and HBA1C testing? Yes = 1, No = 2
Hematocrit Sample 1	Hematocrit_1	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Blood sample 1 percentage of total blood volume that are red blood cells. The normal range is 38.8 to 50 percent for men and 34.9 to 44.5 percent for women.
Hematocrit Sample 2	Hematocrit_2	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Blood sample 2 percentage of total blood volume that are red blood cells. The normal range is 38.8 to 50 percent for men and 34.9 to 44.5 percent for women.
Blood Pressure - Systolic	BPSystolic	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Systolic blood pressure of subject. A normal systolic blood pressure is below 120.
Blood Pressure - Diastolic	BPDiastolic	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Diastolic blood pressure of subject. A normal diastolic blood pressure is below 80.
Thyroid Stimulating Hormone	ThyroidHormone	<b>Tier 2 Restricted</b>	^[A-z0-9_.,]+\$	=,NOT =,<,>	Amount of thyroid stimulating hormone (TSH) in subject's blood in milliunits per liter (mU/L). A normal range for TSH is 0.4 mU/L to 4.0 mU/L.
Hemoglobin A1C (HbA1C)	HbA1C	<b>Tier 2 Restricted</b>	^[A-z0-9_.,]+\$	=,NOT =,<,>	Percentage of subject's hemoglobin that is coated with sugar (glycated). Normal A1C level range is 4.5 to 6 percent. Higher than normal levels indicate risk for diabetes.
Hypothyroidism	Hypothyroidism	<b>Tier 2 Restricted</b>		=	History of Hypothyroidism? Yes = 1, No = 0
Hypothyroidism - Age at onset	Hypothyroidism_Onset	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Age in years of hypothyroidism onset, if applicable
Hyperthyroidism	Hyperthyroidism	<b>Tier 2 Restricted</b>		=	History of Hyperthyroidism? Yes = 1, No = 0
Hyperthyroidism - Age at onset	Hyperthyroidism_Onset	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Age in years of hyperthyroidism onset, if applicable
Other Endocrine Problem	OtherEndocrn_Prob	<b>Tier 2 Restricted</b>		=	History of other endocrine disorder? Yes = 1, No = 0
Other Endocrine Problem - Age at onset	OtherEndocrine_Prob Onset	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Age in years of other endocrine disorder onset, if applicable
Menstrual - Regular cycles	Menstrual_RegCycles	<b>Tier 1 Restricted</b>		=	Does the participant report having regular menstrual cycles? Yes = 1, No = 0 (Asked of female participants only)
Menstrual - Explain (If no)	Menstrual_Explain	<b>Tier 1 Restricted</b>	^[A-z0-9_.,]+\$	=,NOT =,<,>	If participant is not having regular menstrual cycles, explain possible reasons why. (Asked of female participants only)
Menstrual - Age Cycle Began	Menstrual_AgeBegan	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Participant's age at first menstrual cycle. (Asked of female participants only)
Menstrual - Cycle Length (between start dates)	Menstrual_CycleLength	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Average length of participant's menstrual cycles in days. 1=Less than 25 days, 2=Between 25-35 days, and 3=More than every 35 days (Asked of female participants only)
Menstrual - Days Since Last Period	Menstrual_DaysSince Last	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Number of days since last menstrual period occurred. (Asked of female participants only)
Menstrual - Age Cycles Became Irregular	Menstrual_AgeIrreg	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Participant's age when menstrual cycles became irregular in length? (Asked of female participants only)
Menstrual - Age Cycles Stopped	Menstrual_AgeStop	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Participant's age when menstrual cycles stopped. (Asked of female participants only)
Menstrual - If amenorrheic, months since menarche	Menstrual_MonthsSinceStop	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	If participant is amenorrheic, months since menarche (cycle stopped). (Asked of female participants only)
Menstrual - Using birth control pills, progesterone, or fertility drugs	Manstrual_UsingBirth Control	<b>Tier 1 Restricted</b>		=	Is participant using birth control pills, progesterone, or fertility drugs? Yes = 1, No = 0 (Asked of female participants only)
Menstrual - Birth control/Fertility drug code	Menstrual_BirthControl Code	<b>Tier 1 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	What birth control, progesterone, or fertility drugs is the participant using? 1=OC's for contraception, 2=OC's primarily for menstrual regulation, 3=estradiol for menstrual regulation, 4=progesterone for menstrual regulation, 5=fertility therapy, 6=other, 7=unknown (Asked of female participants only)

## Instrument: Family History of Psychiatric and Neurologic Disorders

Display Name	Column Header	Access	Validation	Comparators	Description
Schizophrenia or Psychosis - Mother	FamHist_Moth_Scz	Tier 2 Restricted		=	Does the participant report that their mother had schizophrenia or psychosis.
Schizophrenia or Psychosis - Father	FamHist_Fath_Scz	Tier 2 Restricted		=	Does the participant report that their father had schizophrenia or psychosis.
Depression - Mother	FamHist_Moth_Dep	Tier 2 Restricted		=	Does the participant report that their mother had depression.
Depression - Father	FamHist_Fath_Dep	Tier 2 Restricted		=	Does the participant report that their father had depression.
Bipolar Disorder - Mother	FamHist_Moth_BP	Tier 2 Restricted		=	Does the participant report that their mother had bipolar disorder.
Bipolar Disorder - Father	FamHist_Fath_BP	Tier 2 Restricted		=	Does the participant report that their father had bipolar disorder.
Anxiety - Mother	FamHist_Moth_Anx	Tier 2 Restricted		=	Does the participant report that their mother had anxiety.
Anxiety - Father	FamHist_Fath_Anx	Tier 2 Restricted		=	Does the participant report that their father had anxiety.
Drug or Alcohol Problems - Mother	FamHist_Moth_DrgAlc	Tier 2 Restricted		=	Does the participant report that their mother had drug or alcohol problems.
Drug or Alcohol Problems - Father	FamHist_Fath_DrgAlc	Tier 2 Restricted		=	Does the participant report that their father had drug or alcohol problems.
Alzheimer's Disease or Dementia - Mother	FamHist_Moth_Alz	Tier 2 Restricted		=	Does the participant report that their mother had Alzheimer's Disease or dementia.
Alzheimer's Disease or Dementia - Father	FamHist_Fath_Alz	Tier 2 Restricted		=	Does the participant report that their father had Alzheimer's Disease or dementia.
Parkinson's Disease - Mother	FamHist_Moth_PD	Tier 2 Restricted		=	Does the participant report that their mother had Parkinson's Disease.
Parkinson's Disease - Father	FamHist_Fath_PD	Tier 2 Restricted		=	Does the participant report that their father had Parkinson's Disease.
Tourette's Syndrome - Mother	FamHist_Moth_TS	Tier 2 Restricted		=	Does the participant report that their mother had Tourette's Syndrome.
Tourette's Syndrome - Father	FamHist_Fath_TS	Tier 2 Restricted		=	Does the participant report that their father had Tourette's Syndrome.
None of the above - Mother	FamHist_Moth_None	Tier 2 Restricted		=	
None of the above - Father	FamHist_Fath_None	Tier 2 Restricted		=	

## Category: Alertness

### Instrument: Cognitive Status (Mini Mental Status Exam)

Display Name	Column Header	Access	Validation	Comparators	Description
Mini Mental Status Exam Total Score	MMSE_Score	Open	^[0-9]+\$	=,NOT =,<,>	

### Excluded Fields: Cognitive Status (Mini Mental Status Exam)

Display Name	Column Header	Access	Validation	Comparators	Description
I. Orientation - Today's Year	MMSE_Orientation_Year	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - Current Month	MMSE_Orientation_Month	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - Day (e.g. Monday)	MMSE_Orientation_Day	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - Season	MMSE_Orientation_Season	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - Name of Hospital/Clinic	MMSE_Orientation_Hospital	Open	^[0-9]+\$	=,NOT =,<,>	



I. Orientation - What Floor	MMSE_Orientation_Floor	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - What City	MMSE_Orientation_City	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - What County	MMSE_Orientation_County	Open	^[0-9]+\$	=,NOT =,<,>	
I. Orientation - What State	MMSE_Orientation_State	Open	^[0-9]+\$	=,NOT =,<,>	
II. Immediate Recall - Ball	MMSE_IR_Ball	Open	^[0-9]+\$	=,NOT =,<,>	
II. Immediate Recall - Flag	MMSE_IR_Flag	Open	^[0-9]+\$	=,NOT =,<,>	
II. Immediate Recall - Tree	MMSE_IR_Tree	Open	^[0-9]+\$	=,NOT =,<,>	
II. Immediate Recall - Number of Trials	MMSE_IR_Num_Trials	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation A. Counting Backwards Test - 93	MMSE_AC_CountBW_93	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation A. Counting Backwards Test - 86	MMSE_AC_CountBW_86	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation A. Counting Backwards Test - 79	MMSE_AC_CountBW_79	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation A. Counting Backwards Test - 72	MMSE_AC_CountBW_72	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation A. Counting Backwards Test - 65	MMSE_AC_CountBW_65	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation B. Spelling Backwards Test - D	MMSE_AC_SpellBW_D	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation B. Spelling Backwards Test - L	MMSE_AC_SpellBW_L	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation B. Spelling Backwards Test - R	MMSE_AC_SpellBW_R	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation B. Spelling Backwards Test - O	MMSE_AC_SpellBW_O	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation B. Spelling Backwards Test - W	MMSE_AC_SpellBW_W	Open	^[0-9]+\$	=,NOT =,<,>	
III. Attention and Calculation C. Final Score	MMSE_AC_Final_Score	Open	^[0-9]+\$	=,NOT =,<,>	
IV. Recall - Ball	MMSE_Recall_Ball	Open	^[0-9]+\$	=,NOT =,<,>	
IV. Recall - Flag	MMSE_Recall_Flag	Open	^[0-9]+\$	=,NOT =,<,>	
IV. Recall - Tree	MMSE_Recall_Tree	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Naming - Watch	MMSE_Lang_Naming_Watch	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Naming - Pencil	MMSE_Lang_Naming_Pencil	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Repetition - No if's, ands, or buts	MMSE_Lang_Repetition	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - 3 Stage Command - 1. Takes paper in hand	MMSE_Lang_3StageCommand_S1	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - 3 Stage Command - 2. Folds paper in half	MMSE_Lang_3StageCommand_S2	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - 3 Stage Command - 3. Puts paper on floor	MMSE_Lang_3StageCommand_S3	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Reading - Closes Eyes	MMSE_Lang_Reading	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Writing - Writes sentence	MMSE_Lang_Writing	Open	^[0-9]+\$	=,NOT =,<,>	
V. Language - Copying - Copies pentagons	MMSE_Lang_Copying	Open	^[0-9]+\$	=,NOT =,<,>	

### Instrument: Sleep (Pittsburgh Sleep Questionnaire)

Display Name	Column Header	Access	Validation	Comparators	Description
Sleep (Pittsburgh Sleep Questionnaire) Total Score	PSQI_Score	Open	^[0-9]+\$	=,NOT =,<,>	The total score across all items on the Pittsburgh Sleep Questionnaire

### Excluded Instrument Fields: Sleep (Pittsburgh Sleep Questionnaire)

Display Name	Column Header	Access	Validation	Comparators	Description
1. Usual bed time (past month)	PSQI_Bed_Time	Open	^.+	=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	
2. Minutes to fall asleep (past month)	PSQI_Time_Fall_Asleep MPH: PSQI_Minutes_Fall_Asleep ("time" is ambiguous in this context)	Open	^[0-9]+\$	=,NOT =,<,>	
3. Time get up in morning (past month)	PSQI_GetUp_Time	Open	^.+	=, NOT =, CONTAINS, DOESN'T CONTAIN, IS EMPTY, IS NOT EMPTY	
4. Hours of sleep per night (past month)	PSQI_Sleep_Hours	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	

5a. Sleep Trouble - Can't get to sleep within 30 minutes	PSQI_Trouble_Within30	Open	^[0-9]+\$	=,NOT =,<,>	
5b. Sleep Trouble - Wake up in middle of night or early morning	PSQI_Trouble_WakeUp	Open	^[0-9]+\$	=,NOT =,<,>	
5c. Sleep Trouble - Get up to use bathroom	PSQI_Trouble_Bathroom	Open	^[0-9]+\$ YES OR NO	=,NOT =,<,>	
5d. Sleep Trouble - Can't breathe comfortably	PSQI_Trouble_Breath	Open	^[0-9]+\$	=,NOT =,<,>	
5e. Sleep Trouble - Cough or snore loudly	PSQI_Trouble_Snore	Open	^[0-9]+\$	=,NOT =,<,>	
5f. Sleep Trouble - Feel too cold	PSQI_Trouble_Cold	Open	^[0-9]+\$	=,NOT =,<,>	
5g. Sleep Trouble - Feel too hot	PSQI_Trouble_Hot	Open	^[0-9]+\$	=,NOT =,<,>	
5h. Sleep Trouble - Had bad dreams	PSQI_Trouble_Dreams	Open	^[0-9]+\$	=,NOT =,<,>	
5i. Sleep Trouble - Have pain	PSQI_Trouble_Pain	Open	^[0-9]+\$	=,NOT =,<,>	
5j. Sleep Trouble - Other	PSQI_Trouble_Other	Open	^[0-9]+\$	=,NOT =,<,>	
5j. Sleep Trouble - Describe other	PSQI_Trouble_Describe	Open	^[0-9]+\$	=,NOT =,<,>	
6. Describe overall sleep quality	PSQI_Sleep_Quality	Open	^[0-9]+\$	=,NOT =,<,>	
7. How often taken sleep medicine	PSQI_Sleep_Medicine	Open	^[0-9]+\$	=,NOT =,<,>	
8. How often trouble staying awake	PSQI_Staying_Awake	Open	^[0-9]+\$	=,NOT =,<,>	
9. How often trouble keeping up enthusiasm	PSQI_Keeping_Enthusiasm	Open	^[0-9]+\$	=,NOT =,<,>	
10. Have bed partner or roommate	PSQI_Sleep_Partner	Open	^[0-9]+\$	=,NOT =,<,>	

[ [Category: Subject Information](#) ] [ [Category: Study Completion](#) ] [ [Category: MR Sessions](#) ] [ [Category: Health and Family History](#) ] [ [Category: Alertness](#) ] [ [Category: Cognition](#) ] [ [Category: Emotion](#) ] [ [Category: FreeSurfer](#) ] [ [Category: Motor](#) ] [ [Category: Personality](#) ] [ [Category: Psychiatric and Life Function](#) ] [ [Category: Sensory](#) ] [ [Category: Substance Use](#) ]

## Category: Cognition

### Instrument: Episodic Memory (Picture Sequence Memory)

#### Instrument Description:

*The Picture Sequence Memory Test is a measure developed for the Open of episodic memory for ages 3-85 years. It involves recalling increasingly lengthy series of illustrated objects and activities that are presented in a particular order on the computer screen. The participants are asked to recall the sequence of pictures that is demonstrated over two learning trials; sequence length varies from 6-18 pictures, depending on age. Participants are given credit for each adjacent pair of pictures (i.e., if pictures in locations 7 and 8 and placed in that order and adjacent to each other anywhere - such as slots 1 and 2 - one point is awarded) they correctly place, up to the maximum value for the sequence, which is one less than the sequence length (if there are 18 pictures in the sequence, the maximum score is 17, because that is the number of adjacent pairs of pictures that exist). The test takes approximately 7 minutes to administer. This test is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Picture Sequence Memory Test: Unadjusted Scale Score	PicSeq_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	The Picture Sequence Memory Test is a measure developed for the assessment of episodic memory for ages 3-85 years. It involves recalling increasingly lengthy series of illustrated objects and activities that are presented in a particular order on the computer screen. The participants are asked to recall the sequence of pictures that is demonstrated over two learning trials; sequence length varies from 6-18 pictures, depending on age. Participants are given credit for each adjacent pair of pictures (i.e., if pictures in locations 7 and 8 and placed in that order and adjacent to each other anywhere – such as slots 1 and 2 – one point is awarded) they correctly place, up to the maximum value for the sequence, which is one less than the sequence length (if there are 18 pictures in the sequence, the maximum score is 17, because that is the number of adjacent pairs of pictures that exist). The test takes approximately 7 minutes to administer. This test is recommended for ages 3-85.
NIH Toolbox Picture Sequence Memory Test: Age-Adjusted Scale Score	PicSeq_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	The Picture Sequence Memory Test is a measure developed for the assessment of episodic memory for ages 3-85 years. It involves recalling increasingly lengthy series of illustrated objects and activities that are presented in a particular order on the computer screen. The participants are asked to recall the sequence of pictures that is demonstrated over two learning trials; sequence length varies from 6-18 pictures, depending on age. Participants are given credit for each adjacent pair of pictures (i.e., if pictures in locations 7 and 8 and placed in that order and adjacent to each other anywhere – such as slots 1 and 2 – one point is awarded) they correctly place, up to the maximum value for the sequence, which is one less than the sequence length (if there are 18 pictures in the sequence, the maximum score is 17, because that is the number of adjacent pairs of pictures that exist). The test takes approximately 7 minutes to administer. This test is recommended for ages 3-85.

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

## Instrument Description:

*DCCS is a measure of cognitive flexibility. Two target pictures are presented that vary along two dimensions (e.g., shape and color). Participants are asked to match a series of bivalent test pictures (e.g., yellow balls and blue trucks) to the target pictures, first according to one dimension (e.g., color) and then, after a number of trials, according to the other dimension (e.g., shape). "Switch" trials are also employed, in which the participant must change the dimension being matched. For example, after 4 straight trials matching on shape, the participant may be asked to match on color on the next trial and then go back to shape, thus requiring the cognitive flexibility to quickly choose the correct stimulus. Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 4 minutes to administer. This test is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Dimensional Change Card Sort Test: Unadjusted Scale Score	CardSort_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	DCCS is a measure of cognitive flexibility. Two target pictures are presented that vary along two dimensions (e.g., shape and color). Participants are asked to match a series of bivalent test pictures (e.g., yellow balls and blue trucks) to the target pictures, first according to one dimension (e.g., color) and then, after a number of trials, according to the other dimension (e.g., shape). "Switch" trials are also employed, in which the participant must change the dimension being matched. For example, after 4 straight trials matching on shape, the participant may be asked to match on color on the next trial and then go back to shape, thus requiring the cognitive flexibility to quickly choose the correct stimulus. Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 4 minutes to administer. This test is recommended for ages 3-85.
NIH Toolbox Dimensional Change Card Sort Test: Age-Adjusted Scale Score	CardSort_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	DCCS is a measure of cognitive flexibility. Two target pictures are presented that vary along two dimensions (e.g., shape and color). Participants are asked to match a series of bivalent test pictures (e.g., yellow balls and blue trucks) to the target pictures, first according to one dimension (e.g., color) and then, after a number of trials, according to the other dimension (e.g., shape). "Switch" trials are also employed, in which the participant must change the dimension being matched. For example, after 4 straight trials matching on shape, the participant may be asked to match on color on the next trial and then go back to shape, thus requiring the cognitive flexibility to quickly choose the correct stimulus. Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 4 minutes to administer. This test is recommended for ages 3-85.

## Instrument: Executive Function/Inhibition (Flanker Task)

### Instrument Description:

*The Flanker task measures both a participant's attention and inhibitory control. The test requires the participant to focus on a given stimulus while inhibiting attention to stimuli (fish for ages 3-7 or arrows for ages 8-85) flanking it. Sometimes the middle stimulus is pointing in the same direction as the "flankers" (congruent) and sometimes in the opposite direction (incongruent). Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 3 minutes to administer. This test is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Flanker Inhibitory Control and Attention Test: Unadjusted Scale Score	Flanker_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	The Flanker task measures both a participant's attention and inhibitory control. The test requires the participant to focus on a given stimulus while inhibiting attention to stimuli (fish for ages 3-7 or arrows for ages 8-85) flanking it. Sometimes the middle stimulus is pointing in the same direction as the "flankers" (congruent) and sometimes in the opposite direction (incongruent). Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 3 minutes to administer. This test is recommended for ages 3-85.
NIH Toolbox Flanker Inhibitory Control and Attention Test: Age-Adjusted Scale Score	Flanker_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	The Flanker task measures both a participant's attention and inhibitory control. The test requires the participant to focus on a given stimulus while inhibiting attention to stimuli (fish for ages 3-7 or arrows for ages 8-85) flanking it. Sometimes the middle stimulus is pointing in the same direction as the "flankers" (congruent) and sometimes in the opposite direction (incongruent). Scoring is based on a combination of accuracy and reaction time, and the test takes approximately 3 minutes to administer. This test is recommended for ages 3-85.

## Instrument: Fluid Intelligence (Penn Progressive Matrices)

### Instrument Description:

*Fluid intelligence is measured using Raven's Progressive Matrices (Prabhakaran et al. 1997; Christoff et al. 2001; Gray et al. 2003; Conway et al. 2005; Gray et al. 2005; Wendelken et al. 2008). We use Form A of an abbreviated version of the Raven's developed by Gur and colleagues (Bilker et al. 2012). Participants are presented with patterns made up of 2x2, 3x3 or 1x5 arrangements of squares, with one of the squares missing. The participant must pick one of five response choices that best fits the missing square on the pattern. The task has 24 items and 3 bonus items, arranged in order of increasing difficulty. However, the task discontinues if the participant makes 5 incorrect responses in a row.*

1. [Duncan et al. 2000; Duncan 2003; Duncan 2005](#)
2. [Prabhakaran et al. 1997; Christoff et al. 2001; Gray et al. 2003; Conway et al. 2005; Gray et al. 2005; Wendelken et al. 2008](#)
3. [Bilker et al. 2012](#)

Display Name	Column Header	Access	Validation	Comparators	Description
Penn Progressive Matrices: Number of Correct Responses (PMAT24_A_CR)	PMAT24_A_CR	Open	^0*([0-9]1[0-9])2[0-4])\$	=,NOT =,<,>	Penn Matrix Test: Number of Correct Responses
Penn Progressive Matrices: Total Skipped Items (PMAT24_A_SI)	PMAT24_A_SI	Open	^0*([0-9]1[0-9])\$	=,NOT =,<,>	Penn Matrix Test: Total Skipped Items (items not presented because maximum errors allowed reached)
Penn Progressive Matrices: Median Reaction Time for Correct Responses (PMAT24_A_RTCT)	PMAT24_A_RTCT	Open	^[~+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Penn Matrix Test: Median Reaction Time for Correct Responses

## Instrument: Language/Reading Decoding (Oral Reading Recognition)

### Instrument Description:

*Separate but parallel reading tests have been developed in English and in Spanish. In either language, the participant is asked to read and pronounce letters and words as accurately as possible. The test administrator scores them as right or wrong. For the youngest children, the initial items require them to identify letters (as opposed to symbols) and to identify a specific letter in an array of 4 symbols. The test is given via a computerized adaptive format and requires approximately 3 minutes. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Oral Reading Recognition Test: Unadjusted Scale Score	ReadEng_Unadj	Open	^[~+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Separate but parallel reading tests have been developed in English and in Spanish. In either language, the participant is asked to read and pronounce letters and words as accurately as possible. The test administrator scores them as right or wrong. For the youngest children, the initial items require them to identify letters (as opposed to symbols) and to identify a specific letter in an array of 4 symbols. The test is given via a computerized adaptive format and requires approximately 3 minutes. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.
NIH Toolbox Oral Reading Recognition Test: Age-Adjusted Scale Score	ReadEng_AgeAdj	Open	^[~+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Separate but parallel reading tests have been developed in English and in Spanish. In either language, the participant is asked to read and pronounce letters and words as accurately as possible. The test administrator scores them as right or wrong. For the youngest children, the initial items require them to identify letters (as opposed to symbols) and to identify a specific letter in an array of 4 symbols. The test is given via a computerized adaptive format and requires approximately 3 minutes. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.

## Instrument: Language/Vocabulary Comprehension (Picture Vocabulary)

### Instrument Description:

*This measure of receptive vocabulary is administered in a computerized adaptive format. The respondent is presented with an audio recording of a word and four photographic images on the computer screen and is asked to select the picture that most closely matches the meaning of the word. This test takes approximately 4 minutes to administer and is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Picture Vocabulary Test: Unadjusted Scale Score	PicVocab_Unadj	Open	^[~+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This measure of receptive vocabulary is administered in a computerized adaptive format. The respondent is presented with an audio recording of a word and four photographic images on the computer screen and is asked to select the picture that most closely matches the meaning of the word. This test takes approximately 4 minutes to administer and is recommended for ages 3-85.
NIH Toolbox Picture Vocabulary Test: Age-Adjusted Scale Score	PicVocab_AgeAdj	Open	^[~+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This measure of receptive vocabulary is administered in a computerized adaptive format. The respondent is presented with an audio recording of a word and four photographic images on the computer screen and is asked to select the picture that most closely matches the meaning of the word. This test takes approximately 4 minutes to administer and is recommended for ages 3-85.

## Instrument: Processing Speed (Pattern Completion Processing Speed)

### Instrument Description:

*This test measures speed of processing by asking participants to discern whether two side-by-side pictures are the same or not. Participants' raw score is the number of items correct in a 90-second period. The items are designed to be simple to most purely measure processing speed. The test overall takes approximately 3 minutes to administer. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Pattern Comparison Processing Speed Test: Unadjusted Scale Score	ProcSpeed_Unadj	Open	^[+]?[0-9]*[.][0-9]+\$	=,NOT =,<,>	This test measures speed of processing by asking participants to discern whether two side-by-side pictures are the same or not. Participants' raw score is the number of items correct in a 90-second period. The items are designed to be simple to most purely measure processing speed. The test overall takes approximately 3 minutes to administer. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.
NIH Toolbox Pattern Comparison Processing Speed Test: Age-Adjusted Scale Score	ProcSpeed_AgeAdj	Open	^[+]?[0-9]*[.][0-9]+\$	=,NOT =,<,>	This test measures speed of processing by asking participants to discern whether two side-by-side pictures are the same or not. Participants' raw score is the number of items correct in a 90-second period. The items are designed to be simple to most purely measure processing speed. The test overall takes approximately 3 minutes to administer. This test is recommended for ages 7-85, but is available for use as young as age 3, if requested.

## Instrument: Self-regulation/Impulsivity (Delay Discounting)

### Instrument Description:

*Delay discounting describes the undervaluing of rewards that are delayed in time. It is illustrated by the fact that humans (and other animals) will often choose a smaller immediate reward over an objectively larger, but delayed reward. We use a version of the discounting task that identifies 'indifference points' at which a person is equally likely to choose a smaller reward (e.g., \$100) sooner versus a larger reward later (e.g., \$200 in 3 years). Based on the work of Green and Myerson (Estle et al. 2006; Green et al. 2007), we use an adjusting-amount approach, in which delays are fixed and reward amounts are adjusted on a trial-by-trial basis based on participants' choices, to rapidly hone in on indifference points. This approach has been repeatedly validated to provide reliable estimates of delay discounting (Estle et al. 2006). As a summary measure, we use an area-under-the-curve discounting measure (AUC) that provides a valid and reliable index of how steeply an individual discounts delayed rewards (Myerson et al. 2001).*

1. [Estle et al. 2006](#); [Green et al. 2007](#)
2. [Estle et al. 2006](#)
3. [Myerson et al. 2001](#)

Display Name	Column Header	Access	Validation	Comparators	Description
Delay Discounting: Subjective Value for \$200 at 1 month (DDisc_SV_1mo_200)	DDisc_SV_1mo_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 1 month
Delay Discounting: Subjective Value for \$200 at 6 months (DDisc_SV_6mo_200)	DDisc_SV_6mo_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 6 months
Delay Discounting: Subjective Value for \$200 at 1 year (DDisc_SV_1yr_200)	DDisc_SV_1yr_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 1 year
Delay Discounting: Subjective Value for \$200 at 3 years (DDisc_SV_3yr_200)	DDisc_SV_3yr_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 3 years
Delay Discounting: Subjective Value for \$200 at 5 years (DDisc_SV_5yr_200)	DDisc_SV_5yr_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 5 years
Delay Discounting: Subjective Value for \$200 at 10 years (DDisc_SV_10yr_200)	DDisc_SV_10yr_200	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$200 at 10 years
Delay Discounting: Subjective Value for \$40K at 1 month (DDisc_SV_1mo_40K)	DDisc_SV_1mo_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 1 month
Delay Discounting: Subjective Value for \$40K at 6 months (DDisc_SV_6mo_40K)	DDisc_SV_6mo_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 6 months
Delay Discounting: Subjective Value for \$40K at 1 year (DDisc_SV_1yr_40K)	DDisc_SV_1yr_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 1 year
Delay Discounting: Subjective Value for \$40K at 3 years (DDisc_SV_3yr_40K)	DDisc_SV_3yr_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 3 years
Delay Discounting: Subjective Value for \$40K at 5 years (DDisc_SV_5yr_40K)	DDisc_SV_5yr_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 5 years
Delay Discounting: Subjective Value for \$40K at 10 years (DDisc_SV_10yr_40K)	DDisc_SV_10yr_40K	Open	^[0-9]*[.][0-9][0-9]\$	=,NOT =,<,>	Subjective Value for \$40K at 10 years

Delay Discounting: Area Under the Curve for Discounting of \$200 (DDisc_AUC_200)	DDisc_AUC_200	Open	^((([1].[0+]) ([0].[0-9]+)?)([.][0-9]+))\$	=,NOT =,<,>	Area Under the Curve for Discounting of \$200
Delay Discounting: Area Under the Curve for Discounting of \$40,000 (DDisc_AUC_40K)	DDisc_AUC_40K	Open	^((([1].[0+]) ([0].[0-9]+)?)([.][0-9]+))\$	=,NOT =,<,>	Area Under the Curve for Discounting of \$40,000

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

### Instrument Description:

*Spatial orientation processing is measured using the Variable Short Penn Line Orientation Test (Gur et al. 2001a; Gur et al. 2010). Participants are shown two lines with different orientations. They have to rotate one of the lines (a moveable blue one) so that is parallel to the other line (a fixed red line). The rotation of the blue line is accomplished by clicking buttons on the keyboard that rotate the lines either clockwise or counterclockwise. Across trials, the lines vary in their relative location on the screen, though the distance between the centers of the two lines is always the same. The length of the red line is always the same, but the length of the blue line can be either short or long. There are a total of 24 trials*

Display Name	Column Header	Access	Validation	Comparators	Description
Variable Short Penn Line Orientation: Total Number Correct (VSPLOT_TC)	VSPLOT_TC	Open	^([0-9])1[0-9]2[0-4]\$	=,NOT =,<,>	Penn Line Orientation: Total Number Correct
Variable Short Penn Line Orientation: Median Reaction Time Divided by Expected Number of Clicks for Correct (VSPLOT_CRTE)	VSPLOT_CRTE	Open	^[-+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Penn Line Orientation: Median Reaction Time Divided by Expected Number of Clicks for Correct Trials
Variable Short Penn Line Orientation: Total Positions Off for All Trials (VSPLOT_OFF)	VSPLOT_OFF	Open	^([0-9]{1,2})1[0-5][0-9]16[0-5]\$	=,NOT =,<,>	Penn Line Orientation: Total Positions Off for All Trials

## Instrument: Sustained Attention (Short Penn Continuous Performance Test)

### Instrument Description:

*Continuous sustained attention is measured using the Short Penn Continuous Performance Test (Number/Letter Version) (Gur et al. 2001; Gur et al. 2001; Gur et al. 2010). Participants see vertical and horizontal red lines flash on the computer screen. In one block, they must press the spacebar when the lines form a number and in the other block they press the spacebar when the lines form a letter. The lines are displayed for 300 ms followed by a 700 ms ITI. Each block contains 90 stimuli and lasts for 1.5 minutes.*

Display Name	Column Header	Access	Validation	Comparators	Description
Short Penn Continuous Performance Test: True Positives = Sum of CPN_TP and CPL_TP (SCPT_TP)	SCPT_TP	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT True Positives = Sum of CPN_TP and CPL_TP
Short Penn Continuous Performance Test: True Negatives = Sum of CPN_TN and CPL_TPN (SCPT_TN)	SCPT_TN	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT True Negatives = Sum of CPN_TN and CPL_TPN
Short Penn Continuous Performance Test: Open Positives = Sum of CPN_FP and CPL_FP (SCPT_FP)	SCPT_FP	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT Open Positives = Sum of CPN_FP and CPL_FP
Short Penn Continuous Performance Test: Open Negatives = Sum of CPN_FN and CPL_FN (SCPT_FN)	SCPT_FN	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT Open Negatives = Sum of CPN_FN and CPL_FN
Short Penn Continuous Performance Test: Median Response Time for True Positive Responses (SCPT_TPRT)	SCPT_TPRT	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT Median Response Time for True Positive Responses
Short Penn Continuous Performance Test: Sensitivity = SCPT_TP/(SCPT_TP + SCPT_FN) (SCPT_SEN)	SCPT_SEN	Open	^[-+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Short Penn CPT Sensitivity = SCPT_TP/(SCPT_TP + SCPT_FN)
Short Penn Continuous Performance Test: Specificity = SCPT_TN/(SCPT_TN + SCPT_FP) (SCPT_SPEC)	SCPT_SPEC	Open	^[-+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Short Penn CPT Specificity = SCPT_TN/(SCPT_TN + SCPT_FP)
Short Penn Continuous Performance Test: Longest Run of Non-Responses (SCPT_LRNR)	SCPT_LRNR	Open	^[0-9]+\$	=,NOT =,<,>	Short Penn CPT Longest Run of Non-Responses

## Instrument: Verbal Episodic Memory (Penn Word Memory Test)

### Instrument Description:



Verbal episodic memory is measured using Form A of the Penn Word Memory Test (Gur et al. 2001a; Gur et al. 2010). Participants are shown 20 words and asked to remember them for a subsequent memory test. They are then shown 40 words (the 20 previously presented words and 20 new words matched on memory related characteristics). They decide whether they have seen the word previously by choosing among “definitely yes,” “probably yes,” “probably no,” and “definitely no.”

Display Name	Column Header	Access	Validation	Comparators	Description
Penn Word Memory Test: Total Number of Correct Responses (IWRD_TOT)	IWRD_TOT	Open	^[0-9]+\$	=,NOT =,<,>	Penn Word Memory: Total Number of Correct Responses
Penn Word Memory Test: Median Reaction Time for Correct Responses (IWRD_RTC)	IWRD_RTC	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Penn Word Memory: Median Reaction Time for Correct Responses

## Instrument: Working Memory (List Sorting)

### Instrument Description:

This task assesses working memory and requires the participant to sequence different visually- and orally-presented stimuli. Pictures of different foods and animals are displayed with both a sound clip and written text that name the item. The task has two different conditions: 1-List and 2-List. In the 1-List condition, participants are required to order a series of objects (either food or animals) in size order from smallest to largest. In the 2-List condition, participants are presented both food and animals and are asked to report the food in size order, followed by the animals in size order. Children ages 3-6 have four practice items in each condition: two practice items in which the images appear simultaneously on the screen and two practice items in which the images briefly “flash” sequentially on the screen. Participants ages 7-85 have two practice items, both “flashing” in each condition. Different instructions are provided for 3-6 and 7-85 year olds in English and for 3-6, 7-17 and 18-85 year olds in Spanish.

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox List Sorting Working Memory Test: Unadjusted Scale Score	ListSort_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This task assesses working memory and requires the participant to sequence different visually- and orally-presented stimuli. Pictures of different foods and animals are displayed with both a sound clip and written text that name the item. The task has two different conditions: 1-List and 2-List. In the 1-List condition, participants are required to order a series of objects (either food or animals) in size order from smallest to largest. In the 2-List condition, participants are presented both food and animals and are asked to report the food in size order, followed by the animals in size order. Children ages 3-6 have four practice items in each condition: two practice items in which the images appear simultaneously on the screen and two practice items in which the images briefly “flash” sequentially on the screen. Participants ages 7-85 have two practice items, both “flashing” in each condition. Different instructions are provided for 3-6 and 7-85 year olds in English and for 3-6, 7-17 and 18-85 year olds in Spanish.
NIH Toolbox List Sorting Working Memory Test: Age-Adjusted Scale Score	ListSort_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This task assesses working memory and requires the participant to sequence different visually- and orally-presented stimuli. Pictures of different foods and animals are displayed with both a sound clip and written text that name the item. The task has two different conditions: 1-List and 2-List. In the 1-List condition, participants are required to order a series of objects (either food or animals) in size order from smallest to largest. In the 2-List condition, participants are presented both food and animals and are asked to report the food in size order, followed by the animals in size order. Children ages 3-6 have four practice items in each condition: two practice items in which the images appear simultaneously on the screen and two practice items in which the images briefly “flash” sequentially on the screen. Participants ages 7-85 have two practice items, both “flashing” in each condition. Different instructions are provided for 3-6 and 7-85 year olds in English and for 3-6, 7-17 and 18-85 year olds in Spanish.

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## Category: Emotion

### Instrument: Emotion Recognition (Penn Emotion Recognition Test)

#### Instrument Description:

Emotion processing is measured using the Penn Emotion Recognition Test (Gur et al. 2001a; Gur et al. 2010). Participants are presented with 40 faces, one at a time. They are asked to choose what emotion the face is showing from five choices: Happy, Sad, Angry, Scared and No Feeling. Half of the faces are males and half are females. There are 8 faces each that have a happy, sad, angry, scared or no feeling expression.

Display Name	Column Header	Access	Validation	Comparators	Description
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Penn Emotion Recognition Test: Number of Correct Responses (ER40_CR)	ER40_CR	Open	^[([0-9])[1-3][0-9]40)\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Responses
Penn Emotion Recognition Test: Correct Responses Median Response Time (ms) (ER40_CRT)	ER40_CRT	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Penn Emotion Recognition: Correct Responses Median Response Time (ms)
Penn Emotion Recognition Test: Number of Correct Anger Identifications (ER40ANG)	ER40ANG	Open	^[0-8]\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Anger Identifications
Penn Emotion Recognition Test: Number of Correct Fear Identifications (ER40FEAR)	ER40FEAR	Open	^[0-8]\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Fear Identifications
Penn Emotion Recognition Test: Number of Correct Happy Identifications (ER40HAP)	ER40HAP	Open	^[0-8]\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Happy Identifications
Penn Emotion Recognition Test: Number of Correct Neutral Identifications (ER40NOE)	ER40NOE	Open	^[0-8]\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Neutral Identifications
Penn Emotion Recognition Test: Number of Correct Sad Identifications (ER40SAD)	ER40SAD	Open	^[0-8]\$	=,NOT =,<,>	Penn Emotion Recognition: Number of Correct Sad Identifications

## Instrument: Negative Affect

### Instrument Description:

*(Sadness, Fear, Anger)*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Anger-Affect Survey: Unadjusted Scale Score	AngAffect_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Anger is a concept within the Negative Affect subdomain of Emotion. Anger is characterized by attitudes of hostility and cynicism and is often associated with experiences of frustration impeding goal-directed behavior. For adult self-report (ages 18 and above), Anger is comprised of three components: anger as an emotion, aggression as a behavioral component, and hostility as a set of cynical attitudes and mistrust of others and their motives. The NIH Toolbox Anger-Affect Survey is a computer-adaptive test (CAT) comprised of items from the PROMIS Anger Item Bank. It assesses anger as an emotion.
NIH Toolbox Anger-Hostility Survey: Unadjusted Scale Score	AngHostil_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Anger is a concept within the Negative Affect subdomain of Emotion. Anger is characterized by attitudes of hostility and cynicism and is often associated with experiences of frustration impeding goal-directed behavior. For adult self-report (ages 18 and above), Anger is comprised of three components: anger as an emotion, aggression as a behavioral component, and hostility as a set of cynical attitudes and mistrust of others and their motives. The NIH Toolbox Anger-Affect Survey is a computer-adaptive test (CAT) comprised of items from the PROMIS Anger Item Bank. It assesses anger as an emotion.
NIH Toolbox Anger-Physical Aggression Survey: Unadjusted Scale Score	AngAggr_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Anger is a concept within the Negative Affect subdomain of Emotion. Anger is characterized by attitudes of hostility and cynicism and is often associated with experiences of frustration impeding goal-directed behavior. For adult self-report (ages 18 and above), Anger is comprised of three components: anger as an emotion, aggression as a behavioral component, and hostility as a set of cynical attitudes and mistrust of others and their motives. The NIH Toolbox Anger-Affect Survey is a computer-adaptive test (CAT) comprised of items from the PROMIS Anger Item Bank. It assesses anger as an emotion.
NIH Toolbox Fear-Affect Survey: Unadjusted Scale Score	FearAffect_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Fear is a concept within the Negative Affect subdomain of Emotion. Fear is best characterized by symptoms of anxiety that reflect autonomic arousal and perceptions of threat. The NIH Toolbox Fear-Affect Survey is a CAT comprised of items from the PROMIS Anxiety Item Bank. It assesses self-reported fear and anxious misery.
NIH Toolbox Fear-Somatic Arousal Survey: Unadjusted Scale Score	FearSomat_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Fear is a concept within the Negative Affect subdomain of Emotion. Fear is best characterized by symptoms of anxiety that reflect autonomic arousal and perceptions of threat. The NIH Toolbox Fear-Somatic Arousal Survey is a 6-item calibrated scale comprised of items from the Mood and Anxiety Symptom Questionnaire. It assesses somatic symptoms related to arousal.
NIH Toolbox Sadness Survey: Unadjusted Scale Score	Sadness_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Sadness is a concept within the Negative Affect subdomain of Emotion. Sadness is distinguished by low levels of positive affect and comprised of symptoms that are primarily affective (poor mood) and cognitive (negative perceptions of self, the world, and the future) indicators of depression. The NIH Toolbox Sadness Survey is a CAT comprised of items from the PROMIS Depression Item Bank.

## Instrument: Psychological Well-being

### Instrument Description:



*(Positive Affect, Life Satisfaction, Meaning and Purpose)*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox General Life Satisfaction Survey: Unadjusted Scale Score	LifeSatisf_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Life Satisfaction is a concept within the Psychological Well-Being subdomain of Emotion. Life Satisfaction is one's cognitive evaluation of life experiences and is concerned with whether people like their lives or not. Life satisfaction includes both general (e.g., my life is going well) and domain-specific (e.g., I am satisfied with my family life) aspects. This self-report measure for adults (ages 18 and above) is a 10-item calibrated scale comprised of items from the Satisfaction with Life Scale and the Students' Life Satisfaction Scale. It assesses global feelings and attitudes about one's life.
NIH Toolbox Meaning and Purpose Survey: Unadjusted Scale Score	MeanPurp_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Meaning and Purpose is a concept within the Psychological Well-Being subdomain of Emotion. Meaning and Purpose is characterized by the extent to which people feel their life matters or makes sense. This self-report measure for adults (ages 18 and above) is a CAT comprised of items from the Meaning in Life Questionnaire, the Life Engagement Test, the MHI, and the FACIT-Sp.
NIH Toolbox Positive Affect Survey: Unadjusted Scale Score	PosAffect_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Positive Affect is a concept within the Psychological Well-Being subdomain of Emotion. Positive Affect can be described as feelings that reflect a level of pleasurable engagement with the environment such as happiness, joy, excitement, enthusiasm, and contentment. This parent-report measure (for children ages 8-12) is a CAT comprised of items from the PANAS-X. It assesses both activated (i.e., happiness, joy) as well as unactivated (i.e., serenity, peace) aspects of positive affect.

## Instrument: Social Relationships

### Instrument Description:

*(Social Support, Companionship, Social Distress, Positive Social Development)*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Friendship Survey: Unadjusted Scale Score	Friendship_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Companionship is a concept within the Social Relationships subdomain of Emotion. Companionship is characterized by self-reported perceptions of the availability of friends or companions with whom to interact or affiliate (i.e., friendship) and that one is alone, lonely or socially isolated from others (i.e., loneliness). The NIH Toolbox Friendship Survey is a self-report measure for adults (ages 18 and above) comprised of 5 calibrated items.
NIH Toolbox Loneliness Survey: Unadjusted Scale Score	Loneliness_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Companionship is a concept within the Social Relationships subdomain of Emotion. Companionship is characterized by self-reported perceptions of the availability of friends or companions with whom to interact or affiliate (i.e., friendship) and that one is alone, lonely or socially isolated from others (i.e., loneliness). The NIH Toolbox Loneliness Survey is a self-report measure for adults (ages 18 and above) comprised of 8 calibrated items.
NIH Toolbox Perceived Hostility Survey: Unadjusted Scale Score	PercHostil_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Social Distress is a concept within the Social Relationships subdomain of Emotion. Social distress is the extent to which an individual perceives his/her daily social interactions as negative or distressing. This can include aspects of perceived hostility (e.g., how often people argue with me, yell at me, or criticize me) and perceived rejection (e.g., how often people don't listen when I ask for help, or don't pay attention to me). The NIH Toolbox Perceived Hostility Survey is a self-report measure for children and adolescents (ages 8-17) comprised of 5 calibrated items.
NIH Toolbox Perceived Rejection Survey: Unadjusted Scale Score	PercReject_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Social Distress is a concept within the Social Relationships subdomain of Emotion. Social distress is the extent to which an individual perceives his/her daily social interactions as negative or distressing. This can include aspects of perceived hostility (e.g., how often people argue with me, yell at me, or criticize me) and perceived rejection (e.g., how often people don't listen when I ask for help, or don't pay attention to me). The NIH Toolbox Perceived Rejection Survey is a self-report measure for children and adolescents (ages 8-17) comprised of 5 calibrated items.
NIH Toolbox Emotional Support Survey: Unadjusted Scale Score	EmotSupp_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Social Support is a concept within the Social Relationships subdomain of Emotion. Perceived social support is the extent to which an individual views his/her social relationships as available to provide aid in times of need or when problems arise (Cohen, 2004). This includes emotional/informational types of perceived social support for children and adolescents. Emotional Support refers to the perception that people in one's social network are available to listen to one's problems with empathy, caring and understanding, and Informational Support refers to the perception that people in one's social network are available to provide information or advice needed to solve problems that arise. This self-report measure for children and adolescents (ages 8-17) is a 7-item calibrated scale.

NIH Toolbox Instrumental Support Survey: Unadjusted Scale Score	InstruSupp_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Social Support is a concept within the Social Relationships subdomain of Emotion. Perceived social support is the extent to which an individual views his/her social relationships as available to provide aid in times of need or when problems arise. This includes instrumental and emotional/informational types of perceived social support. Instrumental Support refers to the perception that people in one's social network are available to provide material or functional aid in completing daily tasks (such as making meals or providing transportation) if needed. This self-report measure for adults (ages 18 and above) is an 8-item calibrated scale.
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## Instrument: Stress and Self Efficacy

### Instrument Description:

*Perceived Stress and Self Efficacy*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Perceived Stress Survey: Unadjusted Scale Score	PercStress_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Perceived Stress is a concept within the Stress & Self-Efficacy subdomain of Emotion. Perceived Stress is defined by individual perceptions about the nature of events and their relationship to the values and coping resources of an individual. This self-report measure for adults (ages 18 and above) is a CAT comprised of items from the Perceived Stress Scale-10. . It assesses how unpredictable, uncontrollable, and overloading respondents find their lives.
NIH Toolbox Self-Efficacy Survey: Unadjusted Scale Score	SelfEff_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Self-Efficacy is a concept within the Stress & Self-Efficacy subdomain of Emotion. Self-Efficacy can be described as a person's belief in their capacity to manage their functioning and have control over meaningful events. This self-report measure for adults (ages 18 and above) is a CAT comprised of items modified from the General Self-Efficacy Scale (Schwarzer). It assesses respondents' sense of global self-efficacy.

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## Category: FreeSurfer

### Instrument: FreeSurfer Summary Statistics

Display Name	Column Header	Access	Validation	Comparators	Description
Left hemisphere cortical gray matter volume	FS_LCort_GM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Right hemisphere cortical gray matter volume	FS_Rcort_GM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Total cortical gray matter volume	FS_TotCort_GM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Total subcortical gray matter volume	FS_SubCort_GM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Total gray matter volume	FS_Total_GM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Supratentorial volume	FS_SupraTentorial_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Left hemisphere cortical white matter volume	FS_L_WM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Right hemisphere cortical white matter volume	FS_R_WM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Total cortical white matter volume	FS_Tot_WM_Vol	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	

### Instrument: Volume (Subcortical) Segmentation

Display Name	Column Header	Access	Validation	Comparators	Description
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Left-Lateral-Ventricle Volume	FS_L_LatVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_ventricle">Lateral_ventricle</a>
Left-Inf-Lat-Vent Volume	FS_L_InfLatVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_horn_of_the_lateral_ventricle">Inferior_horn_of_the_lateral_ventricle</a>
Left-Cerebellum-White-Matter Volume	FS_L_Cerebellum_WM_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cerebellum">Cerebellum</a>
Left-Cerebellum-Cortex Volume	FS_L_Cerebellum_Cort_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cerebellar_cortex">Cerebellar_cortex</a>
Left-Thalamus-Proper Volume	FS_L_ThalamusProper_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Thalamus">Thalamus</a>
Left-Caudate Volume	FS_L_Caudate_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudate_nucleus">Caudate_nucleus</a>
Left-Putamen Volume	FS_L_Putamen_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Putamen">Putamen</a>
Left-Pallidum Volume	FS_L_Pallidum_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Globus_pallidus">Globus_pallidus</a>
3rd-Ventricle Volume	FS_3rdVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Third_ventricle">Third_ventricle</a>
4th-Ventricle Volume	FS_4thVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Fourth_ventricle">Fourth_ventricle</a>
Brain-Stem Volume	FS_BrainStem_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Brainstem">Brainstem</a>
Left-Hippocampus Volume	FS_L_Hippo_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Hippocampus">Hippocampus</a>
Left-Amygdala Volume	FS_L_Amygdala_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Amygdala">Amygdala</a>
CSF Volume	FS_CSF_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cerebral_Spinal_Fluid">Cerebral_Spinal_Fluid</a>
Left-Accumbens-area Volume	FS_L_AccumbensArea_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Nucleus_accumbens">Nucleus_accumbens</a>
Left-VentralDC Volume	FS_L_VentDC_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Ventral_diencephalon">Ventral_diencephalon</a>
Left-vessel Volume	FS_L_Vessel_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	
Left-choroid-plexus Volume	FS_L_ChoroidPlexus_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Choroid_plexus">Choroid_plexus</a>
Right-Lateral-Ventricle Volume	FS_R_LatVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_ventricle">Lateral_ventricle</a>
Right-Inf-Lat-Vent Volume	FS_R_InfLatVent_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_horn_of_the_lateral_ventricle">Inferior_horn_of_the_lateral_ventricle</a>
Right-Cerebellum-White-Matter Volume	FS_R_Cerebellum_WM_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cerebellum">Cerebellum</a>
Right-Cerebellum-Cortex Volume	FS_R_Cerebellum_Cort_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cerebellar_cortex">Cerebellar_cortex</a>
Right-Thalamus-Proper Volume	FS_R_ThalamusProper_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Thalamus">Thalamus</a>
Right-Caudate Volume	FS_R_Caudate_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudate_nucleus">Caudate_nucleus</a>
Right-Putamen Volume	FS_R_Putamen_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Putamen">Putamen</a>
Right-Pallidum Volume	FS_R_Pallidum_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Globus_pallidus">Globus_pallidus</a>
Right-Hippocampus Volume	FS_R_Hippo_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Hippocampus">Hippocampus</a>
Right-Amygdala Volume	FS_R_Amygdala_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Amygdala">Amygdala</a>
Right-Accumbens-area Volume	FS_R_AccumbensArea_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Nucleus_accumbens">Nucleus_accumbens</a>
Right-VentralDC Volume	FS_R_VentDC_Vol	Open	$\wedge[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Ventral_diencephalon">Ventral_diencephalon</a>

Right-vessel Volume	FS_R_Vessel_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Right-choroid-plexus Volume	FS_R_ChoroidPlexus_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Choroid_plexus">Choroid_plexus</a>
5th-Ventricle Volume	FS_5thVent_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Septum_pellucidum">Septum_pellucidum</a>
WM-hypointensities Volume	FS_WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Non-WM-hypointensities Volume	FS_Non-WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Left-WM-hypointensities Volume	FS_L_WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Right-WM-hypointensities Volume	FS_R_WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Left-non-WM-hypointensities Volume	FS_L_Non-WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Right-non-WM-hypointensities Volume	FS_R_Non-WM_Hypointens_Vol	Open	^[0-9]+\$	=,NOT =,<,>	
Optic-Chiasm Volume	FS_OpticChiasm_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Optic_chiasm">Optic_chiasm</a>
CC_Posterior Volume	FS_CC_Posterior_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Corpus_callosum">Corpus_callosum</a>
CC_Mid_Posterior Volume	FS_CC_MidPosterior_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Corpus_callosum">Corpus_callosum</a>
CC_Central Volume	FS_CC_Central_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Corpus_callosum">Corpus_callosum</a>
CC_Mid_Anterior Volume	FS_CC_MidAnterior_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Corpus_callosum">Corpus_callosum</a>
CC_Anterior Volume	FS_CC_Anterior_Vol	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Corpus_callosum">Corpus_callosum</a>

## Instrument: Surface Area

Display Name	Column Header	Access	Validation	Comparators	Description
Left bankssts Surface Area	FS_L_Bankssts_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Banks_of_superior_temporal_sulcus">Banks_of_the_Superior_Temporal_Sulcus</a>
Left caudalanteriorcingulate Surface Area	FS_L_Caudalanteriorcingulate_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_anterior_cingulate_cortex">Caudal_Anterior_Cingulate_Cortex</a>
Left caudalmiddlefrontal Surface Area	FS_L_Caudalmiddlefrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_middle_frontal_gyrus">Caudal_Middle_Frontal_Gyrus</a>
Left cuneus Surface Area	FS_L_Cuneus_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cuneus_cortex">Cuneus_Cortex</a>
Left entorhinal Surface Area	FS_L_Entorhinal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Entorhinal_cortex">Entorhinal_Cortex</a>
Left fusiform Surface Area	FS_L_Fusiform_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Fusiform_gyrus">Fusiform_Gyrus</a>
Left inferiorparietal Surface Area	FS_L_Inferiorparietal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_parietal_cortex">Inferior_Parietal_Cortex </a>
Left inferiortemporal Surface Area	FS_L_Inferiortemporal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_temporal_gyrus">Inferior_Temporal_Gyrus</a>
Left isthmuscingulate Surface Area	FS_L_Isthmuscingulate_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Isthmus_of_cingulate_gyrus">Isthmus_Cingulate_Gyrus</a>
Left lateraloccipital Surface Area	FS_L_Lateraloccipital_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_occipital_cortex">Lateral_Occipital_Cortex</a>
Left lateralorbitofrontal Surface Area	FS_L_Lateralorbitofrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_orbital_frontal_cortex">Lateral_Orbital_Frontal_Cortex</a>

Left lingual Surface Area	FS_L_Lingual_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lingual_gyrus">Lingual Gyrus</a>
Left medialorbitofrontal Surface Area	FS_L_Medialorbitofrontal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Medial_orbital_frontal_cortex">Medial Orbital Frontal Cortex</a>
Left middletemporal Surface Area	FS_L_Middletemporal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Middle_temporal_gyrus">Middle Temporal Gyrus</a>
Left parahippocampal Surface Area	FS_L_Parahippocampal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Parahippocampal_gyrus">Parahippocampal Gyrus</a>
Left paracentral Surface Area	FS_L_Paracentral_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Paracentral_sulcus">Paracentral Sulcus</a>
Left parsopercularis Surface Area	FS_L_Parsopercularis_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Opercular_part_of_inferior_frontal_gyrus">Opercular Part of Inferior Frontal Gyrus</a>
Left parsorbitalis Surface Area	FS_L_Parsorbitalis_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Orbital_part_of_inferior_frontal_gyrus">Orbital Part of Inferior Frontal Gyrus</a>
Left parstriangularis Surface Area	FS_L_Parstriangularis_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Triangular_part_of_inferior_frontal_gyrus">Triangular Part of Inferior Frontal Gyrus</a>
Left pericalcarine Surface Area	FS_L_Pericalcarine_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Pericalcarine_cortex">Pericalcarine Cortex</a>
Left postcentral Surface Area	FS_L_Postcentral_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Postcentral_gyrus">Postcentral Gyrus</a>
Left posteriorcingulate Surface Area	FS_L_Posteriorcingulate_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Posterior_cingulate_gyrus">Posterior Cingulate Gyrus</a>
Left precentral Surface Area	FS_L_Precentral_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precentral_gyrus">Precentral Gyrus</a>
Left precuneus Surface Area	FS_L_Precuneus_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precuneus_cortex">Precuneus Cortex</a>
Left rostralanteriorcingulate Surface Area	FS_L_Rostralanteriorcingulate_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_anterior_cingulate_cortex">Rostral Anterior Cingulate Cortex</a>
Left rostralmiddlefrontal Surface Area	FS_L_Rostralmiddlefrontal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus">Rostral Middle Frontal Gyrus</a>
Left superiorfrontal Surface Area	FS_L_Superiorfrontal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_frontal_gyrus">Superior Frontal Gyrus</a>
Left superiorparietal Surface Area	FS_L_Superiorparietal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_parietal_cortex">Superior Parietal Cortex </a>
Left superiortemporal Surface Area	FS_L_Superiortemporal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_temporal_gyrus">Superior Temporal Gyrus</a>
Left supramarginal Surface Area	FS_L_Supramarginal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Supramarginal_gyrus">Supramarginal Gyrus</a>
Left frontalpole Surface Area	FS_L_Frontalpole_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Frontal_pole">Frontal Pole</a>
Left temporalpole Surface Area	FS_L_Temporalpole_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Temporal_pole">Temporal Pole</a>
Left transversetemporal Surface Area	FS_L_Transversetemporal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Transverse_temporal_cortex">Transverse Temporal Cortex</a>
Left insula Surface Area	FS_L_Insula_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Insula">Insula</a>
Right bankssts Surface Area	FS_R_Bankssts_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Banks_of_superior_temporal_sulcus">Banks of the Superior Temporal Sulcus</a>
Right caudalanteriorcingulate Surface Area	FS_R_Caudalanteriorcingulate_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_anterior_cingulate_cortex">Caudal Anterior Cingulate Cortex</a>
Right caudalmiddlefrontal Surface Area	FS_R_Caudalmiddlefrontal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_middle_frontal_gyrus">Caudal Middle Frontal Gyrus</a>
Right cuneus Surface Area	FS_R_Cuneus_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cuneus_cortex">Cuneus Cortex</a>
Right entorhinal Surface Area	FS_R_Entorhinal_Area	Open	$\wedge\{0-9\}+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Entorhinal_cortex">Entorhinal Cortex</a>

Right fusiform Surface Area	FS_R_Fusiform_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Fusiform_gyrus">Fusiform Gyrus</a>
Right inferiorparietal Surface Area	FS_R_Inferiorparietal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_parietal_cortex">Inferior Parietal Cortex </a>
Right inferiortemporal Surface Area	FS_R_Inferiortemporal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_temporal_gyrus">Inferior Temporal Gyrus</a>
Right isthmuscingulate Surface Area	FS_R_Isthmuscingulate_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Isthmus_of_cingulate_gyrus">Isthmus Cingulate Gyrus</a>
Right lateraloccipital Surface Area	FS_R_Lateraloccipital_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_occipital_cortex">Lateral Occipital Cortex</a>
Right lateralorbitofrontal Surface Area	FS_R_Lateralorbitofrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_orbital_frontal_cortex">Lateral Orbital Frontal Cortex</a>
Right lingual Surface Area	FS_R_Lingual_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lingual_gyrus">Lingual Gyrus</a>
Right medialorbitofrontal Surface Area	FS_R_Medialorbitofrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Medial_orbital_frontal_cortex">Medial Orbital Frontal Cortex</a>
Right middletemporal Surface Area	FS_R_Middletemporal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Middle_temporal_gyrus">Middle Temporal Gyrus</a>
Right parahippocampal Surface Area	FS_R_Parahippocampal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Parahippocampal_gyrus">Parahippocampal Gyrus</a>
Right paracentral Surface Area	FS_R_Paracentral_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Paracentral_sulcus">Paracentral Sulcus</a>
Right parsopercularis Surface Area	FS_R_Parsopercularis_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Opercular_part_of_inferior_frontal_gyrus">Opercular Part of Inferior Frontal Gyrus</a>
Right parsorbitalis Surface Area	FS_R_Parsorbitalis_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Orbital_part_of_inferior_frontal_gyrus">Orbital Part of Inferior Frontal Gyrus</a>
Right parstriangularis Surface Area	FS_R_Parstriangularis_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Triangular_part_of_inferior_frontal_gyrus">Triangular Part of Inferior Frontal Gyrus</a>
Right pericalcarine Surface Area	FS_R_Pericalcarine_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Pericalcarine_cortex">Pericalcarine Cortex</a>
Right postcentral Surface Area	FS_R_Postcentral_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Postcentral_gyrus">Postcentral Gyrus</a>
Right posteriorcingulate Surface Area	FS_R_Posteriorcingulate_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Posterior_cingulate_gyrus">Posterior Cingulate Gyrus</a>
Right precentral Surface Area	FS_R_Precentral_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precentral_gyrus">Precentral Gyrus</a>
Right precuneus Surface Area	FS_R_Precuneus_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precuneus_cortex">Precuneus Cortex</a>
Right rostralanteriorcingulate Surface Area	FS_R_Rostralanteriorcingulate_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_anterior_cingulate_cortex">Rostral Anterior Cingulate Cortex</a>
Right rostralmiddlefrontal Surface Area	FS_R_Rostralmiddlefrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus">Rostral Middle Frontal Gyrus</a>
Right superiorfrontal Surface Area	FS_R_Superiorfrontal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_frontal_gyrus">Superior Frontal Gyrus</a>
Right superiorparietal Surface Area	FS_R_Superiorparietal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_parietal_cortex">Superior Parietal Cortex </a>
Right superiortemporal Surface Area	FS_R_Superiortemporal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_temporal_gyrus">Superior Temporal Gyrus</a>
Right supramarginal Surface Area	FS_R_Supramarginal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Supramarginal_gyrus">Supramarginal Gyrus</a>
Right frontalpole Surface Area	FS_R_Frontalpole_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Frontal_pole">Frontal Pole</a>
Right temporalpole Surface Area	FS_R_Temporalpole_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Temporal_pole">Temporal Pole</a>
Right transversetemporal Surface Area	FS_R_Transversetemporal_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Transverse_temporal_cortex">Transverse Temporal Cortex</a>



Right insula Surface Area	FS_R_Insula_Area	Open	^[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Insula">Insula</a>
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## Instrument: Surface Thickness

Display Name	Column Header	Access	Validation	Comparators	Description
Left bankssts Average Thickness	FS_L_Bankssts_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Banks_of_superior_temporal_sulcus">Banks of the Superior Temporal Sulcus</a>
Left caudalanteriorcingulate Average Thickness	FS_L_Caudalanteriorcingulate_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_anterior_cingulate_cortex">Caudal Anterior Cingulate Cortex</a>
Left caudalmiddlefrontal Average Thickness	FS_L_Caudalmiddlefrontal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_middle_frontal_gyrus">Caudal Middle Frontal Gyrus</a>
Left cuneus Average Thickness	FS_L_Cuneus_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cuneus_cortex">Cuneus Cortex</a>
Left entorhinal Average Thickness	FS_L_Entorhinal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Entorhinal_cortex">Entorhinal Cortex</a>
Left fusiform Average Thickness	FS_L_Fusiform_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Fusiform_gyrus">Fusiform Gyrus</a>
Left inferiorparietal Average Thickness	FS_L_Inferiorparietal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_parietal_cortex">Inferior Parietal Cortex </a>
Left inferiortemporal Average Thickness	FS_L_Inferiortemporal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_temporal_gyrus">Inferior Temporal Gyrus</a>
Left isthmuscingulate Average Thickness	FS_L_Isthmuscingulate_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Isthmus_of_cingulate_gyrus">Isthmus Cingulate Gyrus</a>
Left lateraloccipital Average Thickness	FS_L_Lateraloccipital_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_occipital_cortex">Lateral Occipital Cortex</a>
Left lateralorbitofrontal Average Thickness	FS_L_Lateralorbitofrontal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_orbital_frontal_cortex">Lateral Orbital Frontal Cortex</a>
Left lingual Average Thickness	FS_L_Lingual_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lingual_gyrus">Lingual Gyrus</a>
Left medialorbitofrontal Average Thickness	FS_L_Medialorbitofrontal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Medial_orbital_frontal_cortex">Medial Orbital Frontal Cortex</a>
Left middletemporal Average Thickness	FS_L_Middletemporal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Middle_temporal_gyrus">Middle Temporal Gyrus</a>
Left parahippocampal Average Thickness	FS_L_Parahippocampal_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Parahippocampal_gyrus">Parahippocampal Gyrus</a>
Left paracentral Average Thickness	FS_L_Paracentral_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Paracentral_sulcus">Paracentral Sulcus</a>
Left parsopercularis Average Thickness	FS_L_Parsopercularis_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Opercular_part_of_inferior_frontal_gyrus">Opercular Part of Inferior Frontal Gyrus</a>
Left parsorbitalis Average Thickness	FS_L_Parsorbitalis_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Orbital_part_of_inferior_frontal_gyrus">Orbital Part of Inferior Frontal Gyrus</a>
Left parstriangularis Average Thickness	FS_L_Parstriangularis_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Triangular_part_of_inferior_frontal_gyrus">Triangular Part of Inferior Frontal Gyrus</a>
Left pericalcarine Average Thickness	FS_L_Pericalcarine_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Pericalcarine_cortex">Pericalcarine Cortex</a>
Left postcentral Average Thickness	FS_L_Postcentral_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Postcentral_gyrus">Postcentral Gyrus</a>
Left posteriorcingulate Average Thickness	FS_L_Posteriorcingulate_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Posterior_cingulate_gyrus">Posterior Cingulate Gyrus</a>
Left precentral Average Thickness	FS_L_Precentral_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precentral_gyrus">Precentral Gyrus</a>
Left precuneus Average Thickness	FS_L_Precuneus_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precuneus_cortex">Precuneus Cortex</a>
Left rostralanteriorcingulate Average Thickness	FS_L_Rostralanteriorcingulate_Thck	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_anterior_cingulate_cortex">Rostral Anterior Cingulate Cortex</a>

Left rostralmiddlefrontal Average Thickness	FS_L_Rostralmiddlefrontal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus">http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus</a> >Rostral Middle Frontal Gyrus</a>
Left superiorfrontal Average Thickness	FS_L_Superiorfrontal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_frontal_gyrus">http://neurolex.org/wiki/Category:Superior_frontal_gyrus</a> >Superior Frontal Gyrus</a>
Left superiorparietal Average Thickness	FS_L_Superiorparietal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_parietal_cortex">http://neurolex.org/wiki/Category:Superior_parietal_cortex</a> >Superior Parietal Cortex </a>
Left superiortemporal Average Thickness	FS_L_Superiortemporal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_temporal_gyrus">http://neurolex.org/wiki/Category:Superior_temporal_gyrus</a> >Superior Temporal Gyrus</a>
Left supramarginal Average Thickness	FS_L_Supramarginal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Supramarginal_gyrus">http://neurolex.org/wiki/Category:Supramarginal_gyrus</a> >Supramarginal Gyrus</a>
Left frontalpole Average Thickness	FS_L_Frontalpole_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Frontal_pole">http://neurolex.org/wiki/Category:Frontal_pole</a> >Frontal Pole</a>
Left temporalpole Average Thickness	FS_L_Temporalpole_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Temporal_pole">http://neurolex.org/wiki/Category:Temporal_pole</a> >Temporal Pole</a>
Left transversetemporal Average Thickness	FS_L_Transversetemporal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Transverse_temporal_cortex">http://neurolex.org/wiki/Category:Transverse_temporal_cortex</a> >Transverse Temporal Cortex</a>
Left insula Average Thickness	FS_L_Insula_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Insula">http://neurolex.org/wiki/Category:Insula</a> >Insula</a>
Right bankssts Average Thickness	FS_R_Bankssts_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Banks_of_superior_temporal_sulcus">http://neurolex.org/wiki/Category:Banks_of_superior_temporal_sulcus</a> >Banks of the Superior Temporal Sulcus</a>
Right caudalanteriorcingulate Average Thickness	FS_R_Caudalanteriorcingulate_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_anterior_cingulate_cortex">http://neurolex.org/wiki/Category:Caudal_anterior_cingulate_cortex</a> >Caudal Anterior Cingulate Cortex</a>
Right caudalmiddlefrontal Average Thickness	FS_R_Caudalmiddlefrontal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Caudal_middle_frontal_gyrus">http://neurolex.org/wiki/Category:Caudal_middle_frontal_gyrus</a> >Caudal Middle Frontal Gyrus</a>
Right cuneus Average Thickness	FS_R_Cuneus_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Cuneus_cortex">http://neurolex.org/wiki/Category:Cuneus_cortex</a> >Cuneus Cortex</a>
Right entorhinal Average Thickness	FS_R_Entorhinal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Entorhinal_cortex">http://neurolex.org/wiki/Category:Entorhinal_cortex</a> >Entorhinal Cortex</a>
Right fusiform Average Thickness	FS_R_Fusiform_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Fusiform_gyrus">http://neurolex.org/wiki/Category:Fusiform_gyrus</a> >Fusiform Gyrus</a>
Right inferiorparietal Average Thickness	FS_R_Inferiorparietal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_parietal_cortex">http://neurolex.org/wiki/Category:Inferior_parietal_cortex</a> >Inferior Parietal Cortex </a>
Right inferiortemporal Average Thickness	FS_R_Inferiortemporal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Inferior_temporal_gyrus">http://neurolex.org/wiki/Category:Inferior_temporal_gyrus</a> >Inferior Temporal Gyrus</a>
Right isthmuscingulate Average Thickness	FS_R_Isthmuscingulate_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Isthmus_of_cingulate_gyrus">http://neurolex.org/wiki/Category:Isthmus_of_cingulate_gyrus</a> >Isthmus Cingulate Gyrus</a>
Right lateraloccipital Average Thickness	FS_R_Lateraloccipital_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_occipital_cortex">http://neurolex.org/wiki/Category:Lateral_occipital_cortex</a> >Lateral Occipital Cortex</a>
Right lateralorbitofrontal Average Thickness	FS_R_Lateralorbitofrontal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lateral_orbital_frontal_cortex">http://neurolex.org/wiki/Category:Lateral_orbital_frontal_cortex</a> >Lateral Orbital Frontal Cortex</a>
Right lingual Average Thickness	FS_R_Lingual_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Lingual_gyrus">http://neurolex.org/wiki/Category:Lingual_gyrus</a> >Lingual Gyrus</a>
Right medialorbitofrontal Average Thickness	FS_R_Medialorbitofrontal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Medial_orbital_frontal_cortex">http://neurolex.org/wiki/Category:Medial_orbital_frontal_cortex</a> >Medial Orbital Frontal Cortex</a>
Right middletemporal Average Thickness	FS_R_Middletemporal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Middle_temporal_gyrus">http://neurolex.org/wiki/Category:Middle_temporal_gyrus</a> >Middle Temporal Gyrus</a>
Right parahippocampal Average Thickness	FS_R_Parahippocampal_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Parahippocampal_gyrus">http://neurolex.org/wiki/Category:Parahippocampal_gyrus</a> >Parahippocampal Gyrus</a>
Right paracentral Average Thickness	FS_R_Paracentral_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Paracentral_sulcus">http://neurolex.org/wiki/Category:Paracentral_sulcus</a> >Paracentral Sulcus</a>
Right parsopercularis Average Thickness	FS_R_Parsopercularis_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Opercular_part_of_inferior_frontal_gyrus">http://neurolex.org/wiki/Category:Opercular_part_of_inferior_frontal_gyrus</a> >Opercular Part of Inferior Frontal Gyrus</a>
Right parsorbitalis Average Thickness	FS_R_Parsorbitalis_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Orbital_part_of_inferior_frontal_gyrus">http://neurolex.org/wiki/Category:Orbital_part_of_inferior_frontal_gyrus</a> >Orbital Part of Inferior Frontal Gyrus</a>
Right parstriangularis Average Thickness	FS_R_Parstriangularis_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Triangular_part_of_inferior_frontal_gyrus">http://neurolex.org/wiki/Category:Triangular_part_of_inferior_frontal_gyrus</a> >Triangular Part of Inferior Frontal Gyrus</a>
Right pericalcarine Average Thickness	FS_R_Pericalcarine_Thck	Open	$\sqrt{[-+]?[0-9]*[.]?[0-9]+\$}$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Pericalcarine_cortex">http://neurolex.org/wiki/Category:Pericalcarine_cortex</a> >Pericalcarine Cortex</a>



Right postcentral Average Thickness	FS_R_Postcentral_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Postcentral_gyrus">http://neurolex.org/wiki/Category:Postcentral_gyrus</a> >Postcentral Gyrus</a>
Right posteriorcingulate Average Thickness	FS_R_Posteriorcingulate_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Posterior_cingulate_gyrus">http://neurolex.org/wiki/Category:Posterior_cingulate_gyrus</a> >Posterior Cingulate Gyrus</a>
Right precentral Average Thickness	FS_R_Precentral_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precentral_gyrus">http://neurolex.org/wiki/Category:Precentral_gyrus</a> >Precentral Gyrus</a>
Right precuneus Average Thickness	FS_R_Precuneus_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Precuneus_cortex">http://neurolex.org/wiki/Category:Precuneus_cortex</a> >Precuneus Cortex</a>
Right rostralanteriorcingulate Average Thickness	FS_R_rostralanteriorcingulate_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_anterior_cingulate_cortex">http://neurolex.org/wiki/Category:Rostral_anterior_cingulate_cortex</a> >Rostral Anterior Cingulate Cortex</a>
Right rostralmiddlefrontal Average Thickness	FS_R_rostralmiddlefrontal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus">http://neurolex.org/wiki/Category:Rostral_middle_frontal_gyrus</a> >Rostral Middle Frontal Gyrus</a>
Right superiorfrontal Average Thickness	FS_R_Superiorfrontal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_frontal_gyrus">http://neurolex.org/wiki/Category:Superior_frontal_gyrus</a> >Superior Frontal Gyrus</a>
Right superiorparietal Average Thickness	FS_R_Superiorparietal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_parietal_cortex">http://neurolex.org/wiki/Category:Superior_parietal_cortex</a> >Superior Parietal Cortex </a>
Right superiortemporal Average Thickness	FS_R_Superiortemporal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Superior_temporal_gyrus">http://neurolex.org/wiki/Category:Superior_temporal_gyrus</a> >Superior Temporal Gyrus</a>
Right supramarginal Average Thickness	FS_R_Supramarginal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Supramarginal_gyrus">http://neurolex.org/wiki/Category:Supramarginal_gyrus</a> >Supramarginal Gyrus</a>
Right frontalpole Average Thickness	FS_R_Frontalpole_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Frontal_pole">http://neurolex.org/wiki/Category:Frontal_pole</a> >Frontal Pole</a>
Right temporalpole Average Thickness	FS_R_Temporalpole_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Temporal_pole">http://neurolex.org/wiki/Category:Temporal_pole</a> >Temporal Pole</a>
Right transversetemporal Average Thickness	FS_R_Transversetemporal_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Transverse_temporal_cortex">http://neurolex.org/wiki/Category:Transverse_temporal_cortex</a> >Transverse Temporal Cortex</a>
Right insula Average Thickness	FS_R_Insula_Thck	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	Neurolex definition: <a href="http://neurolex.org/wiki/Category:Insula">http://neurolex.org/wiki/Category:Insula</a> >Insula</a>

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## Category: Motor

### Instrument: Endurance (2 minute walk test)

*This test is adapted from the American Thoracic Society's 6-Minute Walk Test Protocol. This test measures sub-maximal cardiovascular endurance by recording the distance that the participant is able to walk on a 50-foot (out and back) course in 2 minutes. The participant's raw score is the distance in feet and inches walked in 2 minutes. The test overall takes approximately 4 minutes to administer (with instructions and practice). This test is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox 2-minute Walk Endurance Test: Unadjusted Scale Score	Endurance_Unadj	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	This test is adapted from the American Thoracic Society's 6-Minute Walk Test Protocol. This test measures sub-maximal cardiovascular endurance by recording the distance that the participant is able to walk on a 50-foot (out and back) course in 2 minutes. The participant's raw score is the distance in feet and inches walked in 2 minutes. The test overall takes approximately 4 minutes to administer (with instructions and practice). This test is recommended for ages 3-85.
NIH Toolbox 2-minute Walk Endurance Test: Age-Adjusted Scale Score	Endurance_AgeAdj	Open	$\wedge\{-+\}[0-9]*[.]\?[0-9]+\$$	=,NOT =,<,>	This test is adapted from the American Thoracic Society's 6-Minute Walk Test Protocol. This test measures sub-maximal cardiovascular endurance by recording the distance that the participant is able to walk on a 50-foot (out and back) course in 2 minutes. The participant's raw score is the distance in feet and inches walked in 2 minutes. The test overall takes approximately 4 minutes to administer (with instructions and practice). This test is recommended for ages 3-85.

### Instrument: Locomotion (4-meter walk test)

*This test is adapted from the American Thoracic Society's 6-Minute Walk Test Protocol. This test measures sub-maximal cardiovascular endurance by recording the distance that the participant is able to walk on a 50-foot (out and back) course in 2 minutes. The participant's raw score is the distance in feet and inches walked in 2 minutes. The test overall takes approximately 4 minutes to administer (with instructions and practice). This test is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox 4-Meter Walk Gait Speed Test: Computed Score	GaitSpeed_Comp	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	This test is adapted from the 4-meter walk test in the Short Physical Performance Battery. Participants are asked to walk a short distance (four meters) at their usual pace. Participants complete one practice and then two timed trials. Raw scores are recorded as the time in seconds required to walk 4 meters on each of the two trials, with the better trial used for scoring. The test takes approximately three minutes to administer (including instructions and practice). This test is recommended for ages 7-85. Computed scores are in meters per second.

## Instrument: Dexterity (9-hole Pegboard)

*This simple test of manual dexterity records the time required for the participant to accurately place and remove 9 plastic pegs into a plastic pegboard. The protocol includes 1 practice and 1 timed trial with each hand. Raw scores are recorded as time in seconds that it takes the participant to complete the task with each hand (a separate score for each). The test takes approximately 4 minutes to administer and is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox 9-hole Pegboard Dexterity Test: Unadjusted Scale Score	Dexterity_Unadj	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	This simple test of manual dexterity records the time required for the participant to accurately place and remove 9 plastic pegs into a plastic pegboard. The protocol includes 1 practice and 1 timed trial with each hand. Raw scores are recorded as time in seconds that it takes the participant to complete the task with the dominant hand. The test takes approximately 4 minutes to administer and is recommended for ages 3-85.
NIH Toolbox 9-hole Pegboard Dexterity Test: Age-Adjusted Scale Score	Dexterity_AgeAdj	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	This simple test of manual dexterity records the time required for the participant to accurately place and remove 9 plastic pegs into a plastic pegboard. The protocol includes 1 practice and 1 timed trial with each hand. Raw scores are recorded as time in seconds that it takes the participant to complete the task with the dominant hand. The test takes approximately 4 minutes to administer and is recommended for ages 3-85.

## Instrument: Strength (Grip Strength Dynamometry)

*This protocol is adapted from the grip strength testing protocol of the American Society of Hand Therapy. Participants are seated in a chair with their feet touching the ground. With the elbow bent to 90 degrees and the arm against the trunk, wrist at neutral, participants squeeze the Jamar Plus Digital dynamometer as hard as they can for a count of three. The dynamometer provides a digital reading of force in pounds. A practice trial at less than full force and 1 test trial are completed with each hand. The test takes approximately 3 minutes to administer and is recommended for ages 3-85.*

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Grip Strength Test: Unadjusted Scale Score	Strength_Unadj	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	This protocol is adapted from the grip strength testing protocol of the American Society of Hand Therapy. Participants are seated in a chair with their feet touching the ground. With the elbow bent to 90 degrees and the arm against the trunk, wrist at neutral, participants squeeze the Jamar Plus Digital dynamometer as hard as they can for a count of three. The dynamometer provides a digital reading of force in pounds. A practice trial at less than full force and 1 test trial are completed with each hand. The Grip Strength Test provides a score for each hand, with the primary Toolbox score being the number of pounds of force the participant was able to generate using his/her dominant hand. The test takes approximately 3 minutes to administer and is recommended for ages 3-85.
NIH Toolbox Grip Strength Test: Age-Adjusted Scale Score	Strength_AgeAdj	Open	^[+]?[0-9]* [.]?[0-9]+\$	=,NOT =,<,>	This protocol is adapted from the grip strength testing protocol of the American Society of Hand Therapy. Participants are seated in a chair with their feet touching the ground. With the elbow bent to 90 degrees and the arm against the trunk, wrist at neutral, participants squeeze the Jamar Plus Digital dynamometer as hard as they can for a count of three. The dynamometer provides a digital reading of force in pounds. A practice trial at less than full force and 1 test trial are completed with each hand. The test takes approximately 3 minutes to administer and is recommended for ages 3-85.

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# Category: Personality

## Instrument: Five Factor Model (NEO-FFI)

*There is consensus that a five factor model captures the major facets of human personality across cultures (Heine and Buchtel 2009): a) neuroticism; b) extroversion/introversion; c) agreeableness; d) openness; and e) conscientiousness (Goldberg 1993; McCrae and Costa 2008). We are administering the 60 item version of the Costa and McCrae Neuroticism/Extroversion/Openness Five Factor Inventory (NEO-FFI), which has shown excellent reliability and validity (McCrae and Costa 2004). This measure was available as part of the Penn Computerized Cognitive Battery (Gur et al. 2001a; Gur et al. 2010).*

1. [Heine and Buchtel 2009](#)
2. [Goldberg 1993; McCrae and Costa 2008](#)
3. [McCrae and Costa 2004](#)
4. [McCrae and Costa 2004](#)

Display Name	Column Header	Access	Validation	Comparators	Description
NEO-FFI Agreeableness (NEOFAC_A)	NEOFAC_A	Open	^[0-9]+\$	=,NOT =,<,>	NEO-FFI Personality Agreeableness
NEO-FFI Openness to Experience (NEOFAC_O)	NEOFAC_O	Open	^[0-9]+\$	=,NOT =,<,>	NEO-FFI Personality Openness
NEO-FFI Conscientiousness (NEOFAC_C)	NEOFAC_C	Open	^[0-9]+\$	=,NOT =,<,>	NEO-FFI Personality Conscientiousness
NEO-FFI Neuroticism (NEOFAC_N)	NEOFAC_N	Open	^[0-9]+\$	=,NOT =,<,>	NEO-FFI Personality Neuroticism
NEO-FFI Extraversion (NEOFAC_E)	NEOFAC_E	Open	^[0-9]+\$	=,NOT =,<,>	NEO-FFI Personality Extroversion

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# Category: Psychiatric and Life Function

## Restricted Instrument: Life Function (Achenbach Adult Self-Report, Syndrome Scales and DSM-Oriented Scale)

*The NIH toolbox contains self-report measures of a number of important domains of experience, including positive and negative affect, stress, anxiety, depression and social support. To obtain additional self-report information on an even broader variety of domains, we also administer the Achenbach Adult Self-Report for Ages 18-59 (Achenbach 2009). Specifically, we administer the 123 items from Section VIII. These can be used to generate the ASR Syndrome Scales and the ASR DSM-Oriented Scales.*

Display Name	Column Header	Access	Validation	Comparators	Description
ASR Anxious/Depressed Raw Score (ASR_Anxd_Raw)	ASR_Anxd_Raw	<b>Tier 1 Restricted</b>	^0*([0-9]){12}[0-9]{3}[0-6])\$	=,NOT =,<,>	ASR Anxious/Depressed Raw Score
ASR Anxious/Depressed Gender and Age Adjusted Percentile (ASR_Anxd_Pct)	ASR_Anxd_Pct	<b>Tier 1 Restricted</b>	^0*([5-9][0-9]{100})\$	=,NOT =,<,>	ASR Anxious/Depressed Gender and Age Adjusted Percentile
ASR Withdrawn Raw Score (ASR_Witd_Raw)	ASR_Witd_Raw	<b>Tier 1 Restricted</b>	^0*([0-9]{1[0-8]})\$	=,NOT =,<,>	ASR Withdrawn Raw Score
ASR Withdrawn Gender and Age Adjusted Percentile (ASR_Witd_Pct)	ASR_Witd_Pct	<b>Tier 1 Restricted</b>	^0*([5-9][0-9]{100})\$	=,NOT =,<,>	ASR Withdrawn Gender and Age Adjusted Percentile
ASR Somatic Complaints Raw Score (ASR_Soma_Raw)	ASR_Soma_Raw	<b>Tier 1 Restricted</b>	^0*([0-9]{1[0-8]})\$	=,NOT =,<,>	ASR Somatic Complaints Raw Score
ASR Somatic Complaints Gender and Age Adjusted Percentile (ASR_Soma_Pct)	ASR_Soma_Pct	<b>Tier 1 Restricted</b>	^0*([5-9][0-9]{100})\$	=,NOT =,<,>	ASR Somatic Complaints Gender and Age Adjusted Percentile
ASR Thought Problems Raw Score (ASR_Thot_Raw)	ASR_Thot_Raw	<b>Tier 1 Restricted</b>	^0*([0-9]{1[0-9]20})\$	=,NOT =,<,>	ASR Thought Problems Raw Score
ASR Thought Problems Gender and Age Adjusted Percentile (ASR_Thot_Pct)	ASR_Thot_Pct	<b>Tier 1 Restricted</b>	^0*([5-9][0-9]{100})\$	=,NOT =,<,>	ASR Thought Problems Gender and Age Adjusted Percentile

ASR Attention Problems Raw Score (ASR_Attn_Raw)	ASR_Attn_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][12][0-9][30])\$$	=,NOT =,<,>	ASR Attention Problems Raw Score
ASR Attention Problems Gender and Age Adjusted Percentile (ASR_Attn_Pct)	ASR_Attn_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR Attention Problems Gender and Age Adjusted Percentile
ASR Aggressive Behavior Raw Score (ASR_Aggr_Raw)	ASR_Aggr_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][12][0-9][30])\$$	=,NOT =,<,>	ASR Aggressive Behavior Raw Score
ASR Aggressive Behavior Gender and Age Adjusted Percentile (ASR_Aggr_Pct)	ASR_Aggr_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR Aggressive Behavior Gender and Age Adjusted Percentile
ASR Rule Breaking Behavior Raw Score (ASR_Rule_Raw)	ASR_Rule_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-9][2[0-8]])\$$	=,NOT =,<,>	ASR Rule Breaking Behavior Raw Score
ASR Rule Breaking Behavior Gender and Age Adjusted Percentile (ASR_Rule_Pct)	ASR_Rule_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR Rule Breaking Behavior Gender and Age Adjusted Percentile
ASR Intrusive Raw Score (ASR_Intr_Raw)	ASR_Intr_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-2]])\$$	=,NOT =,<,>	ASR Intrusive Gender and Age Adjusted Percentile
ASR Intrusive Gender and Age Adjusted Percentile (ASR_Intr_Pct)	ASR_Intr_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR Intrusive Gender and Age Adjusted Percentile
ASR Other Problems Raw Score (ASR_Oth_Raw)	ASR_Oth_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1-3][0-9][4[0-2]])\$$	=,NOT =,<,>	ASR Other Raw Score
ASR Critical Items Raw Score (ASR_Crit_Raw)	ASR_Crit_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][12][0-9][3[0-4]])\$$	=,NOT =,<,>	ASR Critical Items Raw Score
ASR Internalizing Raw Score (ASR_Intn_Raw)	ASR_Intn_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1-6][0-9][7[0-8]])\$$	=,NOT =,<,>	ASR Internalizing Raw Score
ASR Internalizing Gender and Age Adjusted T-score (ASR_Intn_T)	ASR_Intn_T	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([3-9][0-9][100])\$$	=,NOT =,<,>	ASR Internalizing Gender and Age Adjusted T-score
ASR Externalizing Raw Score (ASR_Extn_Raw)	ASR_Extn_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1-6][0-9][70])\$$	=,NOT =,<,>	ASR Externalizing Raw Score
ASR Externalizing Gender and Age Adjusted T-score (ASR_Computed_Externalizing_Adjusted_T) (ASR_Extn_T)	ASR_Extn_T	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([3-9][0-9][100])\$$	=,NOT =,<,>	ASR Externalizing Gender and Age Adjusted T-score
ASR Sum of Thought, Attention, and Other Problems Raw Score (ASR_TAO_Sum)	ASR_TAO_Sum	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1-7][0-9][8[0-4]])\$$	=,NOT =,<,>	ASR Sum of Thought, Attention, and Other Raw Score
ASR Total Problems Raw Score (ASR_Totp_Raw)	ASR_Totp_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1,2][1[0-9][2][2[0-3][0-9][240])\$$	=,NOT =,<,>	ASR Total Raw Score
ASR Total Problems Gender and Age Adjusted T-score (ASR_Totp_T)	ASR_Totp_T	<b>Tier 1 Restricted</b>	$\wedge 0^{*}(2[5-9][3-9][0-9][100])\$$	=,NOT =,<,>	ASR Total Gender and Age Adjusted T-score
ASR DSM Depressive Problems Raw Score (DSM_Depr_Raw)	DSM_Depr_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-9][2[0-8]])\$$	=,NOT =,<,>	ASR DSM Depressive Problems Raw Score
ASR DSM Depressive Problems Gender and Age Adjusted Percentile (DSM_Depr_Pct)	DSM_Depr_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR DSM Depressive Problems Gender and Age Adjusted Percentile
ASR DSM Anxiety Problems Raw Score (DSM_Anxi_Raw)	DSM_Anxi_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-4]])\$$	=,NOT =,<,>	ASR DSM Anxiety Problems Raw Score
ASR DSM Anxiety Problems Gender and Age Adjusted Percentile (DSM_Anxi_Pct)	DSM_Anxi_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR DSM Anxiety Problems Gender and Age Adjusted Percentile
ASR DSM Somatic Problems Raw Score (DSM_Somp_Raw)	DSM_Somp_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-8]])\$$	=,NOT =,<,>	ASR DSM Somatic Problems Raw Score
ASR DSM Somatic Problems Gender and Age Adjusted Percentile (DSM_Somp_Pct)	DSM_Somp_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR DSM Somatic Problems Gender and Age Adjusted Percentile
ASR DSM Avoidant Personality Problems Raw Score (DSM_Avoid_Raw)	DSM_Avoid_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-4]])\$$	=,NOT =,<,>	ASR DSM Avoidant Personality Problems Raw Score
ASR DSM Avoidant Personality Problems Gender and Age Adjusted Percentile (DSM_Avoid_Pct)	DSM_Avoid_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR DSM Avoidant Personality Problems Gender and Age Adjusted Percentile
ASR DSM AD/H Problems Raw Score (DSM_Adh_Raw)	DSM_Adh_Raw	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([0-9][1[0-9][2[0-6]])\$$	=,NOT =,<,>	ASR DSM AD/H Problems Raw Score
ASR DSM AD/H Problems Gender and Age Adjusted Percentile (DSM_Adh_Pct)	DSM_Adh_Pct	<b>Tier 1 Restricted</b>	$\wedge 0^{*}([5-9][0-9][100])\$$	=,NOT =,<,>	ASR DSM AD/H Problems Gender and Age Adjusted Percentile

ASR DSM Inattention Problems Raw Score (DSM_Inat_Raw)	DSM_Inat_Raw	Tier 1 Restricted	^0*([0-9] 1[0-4])\$	=,NOT =,<,>	ASR DSM Inattention Problems Raw Score
ASR DSM Hyperactivity Problems Raw Score (DSM_Hype_Raw)	DSM_Hype_Raw	Tier 1 Restricted	^0*([0-9] 1[0-2])\$	=,NOT =,<,>	ASR DSM Hyperactivity Problems Raw Score
ASR DSM Antisocial Personality Problems Raw Score (DSM_Antis_Raw)	DSM_Antis_Raw	Tier 1 Restricted	^0*([0-9] 1-3 [0-9] 40)\$	=,NOT =,<,>	ASR DSM Antisocial Personality Problems Raw Score
ASR DSM Antisocial Personality Problems Gender and Age Adjusted Percentile (DSM_Antis_Pct)	DSM_Antis_Pct	Tier 1 Restricted	^0*([5-9] [0-9] 100)\$	=,NOT =,<,>	ASR DSM Antisocial Personality Problems Gender and Age Adjusted Percentile

## Restricted Instrument: Psychiatric History

Display Name	Column Header	Access	Validation	Comparators	Description
Childhood Conduct Problems	SSAGA_Childhood Conduct	Tier 1 Restricted	^[0-9]+\$	=,NOT =	
Panic Disorder	SSAGA_PanicDisorder	Tier 1 Restricted	^[0-9]+\$		Non-diagnostic screen available to exclude possible cases of panic disorder
Agoraphobia	SSAGA_Agoraphobia	Tier 1 Restricted	^[0-9]+\$		Non-diagnostic screen available to exclude possible cases of agoraphobia
Major Depressive Episode	SSAGA_Depressive_Ep	Tier 1 Restricted	^[0-9]+\$		Has the participant experienced a diagnosed DSMIV Major Depressive Episode over his/her lifetime?
Number Depressive Symptoms	SSAGA_Depressive_Sx	Tier 1 Restricted	^[0-9]+\$		Number of depressive symptoms over lifetime that meet DSMIV criterion for major depression.

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## Category: Sensory

### Instrument: Audition (Words in Noise)

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Words-In-Noise Age 6+: Computed Score	Noise_Comp	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This automated audiometric test measures hearing thresholds at six different frequencies (.5, 1, 2, 4, 6 and 8 kHz), separately in the left and right ears. On each trial, the participant's task is to detect whether a pure tone was presented via headphones by answering yes (tone heard) or no (tone not heard). This test takes approximately nine minutes to administer and is recommended for ages 6-85. Based on the participant's responses, the computer software automatically scores each trial at each of the frequencies for left and right ears, determining the hearing threshold (in decibels)—that is, the level below which the participant cannot hear the tone. To provide a unifying score for Toolbox users, a single hearing metric is provided that is commonly used: a Pure Tone Average (PTA). This is calculated by averaging the threshold scores of 1, 2 and 4 kHz frequencies. Scores for each ear are calculated, with the PTA from the better ear reported as the primary score (i.e., the ear with the lower PTA).

### Instrument: Olfaction (Odor Identification Test)

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Odor Identification Age 3+ Unadjusted Scale Score	Odor_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
NIH Toolbox Odor Identification Age 3+ Age-Adjusted Scale Score	Odor_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	

### Instrument: Pain (Pain Intensity and Interference Surveys)

Display Name	Column Header	Access	Validation	Comparators	Description
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NIH Toolbox Pain Intensity Survey Age 18+: Raw Score  Excluded currently due to glitch in the Toolbox data download	PainIntens_RawScore				This measure consists of a single item measuring immediate (i.e., acute) pain in adults. It asks a participant to rate level of pain experienced "over the last seven days." It takes less than one minute to administer and is recommended for ages 18-85.  Scoring Process: The single item is simply scored on a 0-10 scale, with 0 representing no pain, and 10 representing the "worst imaginable pain." No derived scores are available.
NIH Toolbox Pain Interference Survey Age 18+: T-score	PainInterf_Tscore	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	This brief self-report scale measures the degree to which pain interferes with other activities in life in adults. Pain interference items were developed as part of the NIH PROMIS. This measure is administered as a CAT and takes approximately three minutes. It is recommended for ages 18-85. Each item administered has a 5-point scale with options ranging from "not at all" to "very much" on questions about how much pain interferes with aspects of one's life. The survey is scored, and while no Toolbox norms are available for this measure, the scores are converted to general T-scores based on the PROMIS sample to whom this test was given.

### Instrument: Taste (Taste Intensity Test)

Display Name	Column Header	Access	Validation	Comparators	Description
NIH Toolbox Regional Taste Intensity Age 12+ Unadjusted Scale Score	Taste_Unadj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
NIH Toolbox Regional Taste Intensity Age 12+ Age-Adjusted Scale Score	Taste_AgeAdj	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	

### Instrument: Vision (EVA Scores and Farnsworth Test)

Display Name	Column Header	Access	Enumerated Values	Validation	Comparators	Description
Color Vision Category	Color_Vision	Tier 1 Restricted	Normal Tritan Protan Deutan		=,NOT =	
Eye Used For Color Vision Test	Eye	Tier 1 Restricted	Both (B) Right (R) Left (L)		=,NOT =	
EVA score - Numerator	EVA_Num	Tier 1 Restricted	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>		
EVA score - Denominator	EVA_Denom	Tier 1 Restricted	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>		
Eyeglass correction	Correction	Tier 1 Restricted		^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	

### Instrument: Contrast Sensitivity (Mars Contrast Sensitivity)

*Contrast sensitivity is measured using the Mars Contrast Sensitivity Test (Arditi et al. 2005), a brief, valid and reliable measure that improves upon the traditional Pelli-Robson measure (Dougherty et al. 2005; Haymes et al. 2006; Thayaparan et al. 2007).*

Display Name	Column Header	Access	Validation	Comparators	Description
Mars Contrast Sensitivity Score	Mars_Log_Score	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	
Errors on Mars	Mars_Errs	Open	^[0-9]+\$	=,NOT =,<,>	
Mars Final Contrast Sensitivity Score	Mars_Final	Open	^[+]?[0-9]*[.]?[0-9]+\$	=,NOT =,<,>	

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## Category: Substance Use

## Instrument: Breathalyzer and Drug Test Results

Display Name	Column Header	Access	Validation	Comparators	Description
Any breathalyzer over .05	Breathalyzer_Over_05	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Any breathalyzer over .08	Breathalyzer_Over_08	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Positive test for Cocaine	Cocaine	Tier 2 Restricted		=,NOT =	
Positive test for THC	THC	Tier 2 Restricted		=,NOT =	
Positive test for Opiates	Opiates	Tier 2 Restricted		=,NOT =	
Positive test for Amphetamines	Amphetamines	Tier 2 Restricted		=,NOT =	
Positive test for MethAmphetamine	MethAmphetamine	Tier 2 Restricted		=,NOT =	
Positive test for Oxycontin	Oxycontin	Tier 2 Restricted		=,NOT =	

## Instrument: Alcohol Use 7-Day Retrospective

Display Name	Column Header	Access	Validation	Comparators	Description
Total drinks in past 7 days	Total_Drinks_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Number days drank in past 7 days	Num_Days_Drank_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days	Avg_Weekday_Drinks_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days	Avg_Weekend_Drinks_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total drinks in past 7 days (Beer/Wine Coolers)	Total_Beer_Wine_Cooler_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days (Beer/Wine Coolers)	Avg_Weekday_Beer_Wine_Cooler_7 days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days (Beer/Wine Coolers)	Avg_Weekend_Beer_Wine_Cooler_7 days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total drinks in past 7 days (Malt Liquor)	Total_Malt_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days (Malt Liquor)	Avg_Weekday_Malt_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days (Malt Liquor)	Avg_Weekend_Malt_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total drinks in past 7 days (Wine)	Total_Wine_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days (Wine)	Avg_Weekday_Wine_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days (Wine)	Avg_Weekend_Wine_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total drinks in past 7 days (Hard Liquor)	Total_Hard_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days (Hard Liquor)	Avg_Weekday_Hard_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days (Hard Liquor)	Avg_Weekend_Hard_Liquor_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total drinks in past 7 days (Other Alcohol)	Total_Other_Alc_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday drinks/day in past 7 days (Other Alcohol)	Avg_Weekday_Other_Alc_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend drinks/day in past 7 days (Other Alcohol)	Avg_Weekend_Other_Alc_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	

## Instrument: Alcohol Use and Dependence



Display Name	Column Header	Access	Validation	Comparators	Description
Number of DSM4 Alcohol Dependence Criteria Endorsed	SSAGA_Alc_D4_Dp_Sx	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Number of DSM4 ALC Dependence Criteria Met: If participant is male: 0, 1, 2, 3+ = 3; If female: 0, 1, 2+ = 2
DSM4 Alcohol Abuse Criteria Met	SSAGA_Alc_D4_Ab_Dx	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Participant meets DSM4 criteria for Alcohol Abuse
DSM4 Alcohol Abuse number of symptoms	SSAGA_Alc_D4_Ab_Sx	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Number of symptoms participant has of DSM4 Alcohol Abuse
DSM4 Alcohol Dependence Criteria Met	SSAGA_Alc_D4_Dp_Dx	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Participant meets DSM4 criteria for DSM4 Alcohol Dependence
Drinks per drinking day in past 12 months	SSAGA_Alc_12_Drinks_Per_Day	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Drinks consumed per drinking day in past 12 months: 0, 1, 2, 3, 4, 5-6 = 5, 7+ = 6
Frequency of any alcohol use in past 12 months	SSAGA_Alc_12_Frq	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency of any alcohol use in past 12 months: 4-7 days/week (1 if male, 2 if female), 3 days/week = 2, 2 days/week = 3, 1 day/week = 4, 1-3 days month = 5, 1-11 days/year = 6, never in past 12 months = 7
Frequency of drinking 5+ drinks in past 12 months	SSAGA_Alc_12_Frq_5plus	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency of drinking 5+ drinks in past 12 months: 3+ days/week = 1 if male, 2 if female; 1-2 days/week = 2; 1-3 days/month = 3; 1-11 days/year = 4; never = 5
Frequency drunk in past 12 months	SSAGA_Alc_12_Frq_Drk	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency drunk in past 12 months: 1-7 days/week = 1 if male, 2 if female, 1-3 days/month = 2, 1-11 days/year = 3, never = 4
Max drinks in a single day in past 12 months	SSAGA_Alc_12_Max_Drinks	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Max drinks consumed in a single day in the past 12 months: 1-2 = 1; 3-4 = 2; 5-6 = 3; 7-8 = 4; 9-10 = 5; 11-12 = 6 if male, 5 if female; 13+ = 7, 5 if female
Age at first alcohol use	SSAGA_Alc_Age_1st_Use	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Age at first alcohol use: <15 = 1, 15-16 = 2, 17-18 = 3, 19-20 = 4, 21+ = 5
Drinks per day in heaviest 12-month period	SSAGA_Alc_Hvy_Drinks_Per_Day	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Drinks per day in heaviest 12-month drinking period of participant's lifetime: 0 or 1 = 1, 2, 3, 4, 5-6 = 5, 7+ = 6
Frequency of any alcohol use, heaviest 12-month period	SSAGA_Alc_Hvy_Frq	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency of any alcohol use in heaviest 12-month drinking period of participant's lifetime: 4-7 days/week = 1, 3 days/week = 2, 2 days/week = 3, 1 day/week = 4, 1-3 days/month = 5, 1-11 days/year or never = 6
Frequency of drinking 5+ drinks, heaviest 12-month period	SSAGA_Alc_Hvy_Frq_5plus	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency of drinking 5+ drinks during heaviest 12-month drinking period of participant's lifetime: 3+ days/week = 1, 1-2 days/week = 2, 1-3 days/month = 3, 1-11 days year = 4, never = 5
Frequency drunk in heaviest 12-month period	SSAGA_Alc_Hvy_Frq_Drk	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Frequency drunk in heaviest 12-month drinking period of participant's lifetime: 1-7 days/week = 1, 1-3 days/month = 2, 1-11 days/year = 3, never = 4
Lifetime max drinks in single day	SSAGA_Alc_Hvy_Max_Drinks	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Lifetime max drinks consumed in single day: <=3 = 1; 4-6 = 2; 7-9 = 3; 10-12 = 4; 13-15 = 5; 16-20 = 6; 21+ = 7 if male, 6 if female

## Instrument: Tobacco Use 7-Day Retrospective

Display Name	Column Header	Access	Validation	Comparators	Description
Total times used/smoked ANY TOBACCO in past 7 days	Total_Any_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Times used/smoked ANY TOBACCO TODAY	Times_Used_Any_Tobacco_Today	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Number days smoked/used ANY TOBACCO in past 7 days	Num_Days_Used_Any_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekday ANY TOBACCO per day in past 7 days	Avg_Weekday_Any_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg total weekend ANY TOBACCO per day in past 7 days	Avg_Weekend_Any_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total # CIGARETTES in past 7 days	Total_Cigarettes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday CIGARETTES per day in past 7 days	Avg_Weekday_Cigarettes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend CIGARETTES per day in past 7 days	Avg_Weekend_Cigarettes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	



Total # CIGARS in past 7 days	Total_Cigars_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday CIGARS per day in past 7 days	Avg_Weekday_Cigars_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend CIGARS per day in past 7 days	Avg_Weekend_Cigars_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Total # PIPES in past 7 days	Total_Pipes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday PIPES per day in past 7 days	Avg_Weekday_Pipes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend PIPES per day in past 7 days	Avg_Weekend_Pipes_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Times used CHEW in past 7 days	Total_Chew_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday times used CHEW per day in past 7 days	Avg_Weekday_Chew_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend times used CHEW per day in past 7 days	Avg_Weekend_Chew_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Times used SNUFF in past 7 days	Total_Snuff_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday times used SNUFF per day in past 7 days	Avg_Weekday_Snuff_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend times used SNUFF per day in past 7 days	Avg_Weekend_Snuff_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Times used OTHER TOBACCO in past 7 days	Total_Other_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekday times used OTHER TOBACCO per day in past 7 days	Avg_Weekday_Other_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	
Avg weekend times used OTHER TOBACCO per day in past 7 days	Avg_Weekend_Other_Tobacco_7days	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	

## Instrument: Tobacco Use and Dependence

Display Name	Column Header	Access	Validation	Comparators	Description
Fagerstrom FTND score	SSAGA_FTND_Score	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Fagerstrom FTND score: 4+ indicative of dependence; >6 recoded as 6)
Fagerstrom HSI score: HSI measure of tobacco dependence	SSAGA_HSI_Score	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Fagerstrom HSI score: HSI measure of tobacco dependence (>4 recoded as 4)
For regular smokers, age first smoked a cigarette (even a puff)	SSAGA_TB_Age_1st_Cig	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, age first smoked a cigarette (even a puff), (<=14, 15-17, 18-20, >=21)
DSM tobacco dependence - difficulty quitting	SSAGA_TB_DSM_Difficulty_Quitting	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Participant meets DSM criteria for tobacco dependence - difficulty quitting
DSM tobacco dependence - tolerance	SSAGA_TB_DSM_Tolerance	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Participant meets DSM criteria for tobacco dependence - tolerance
DSM tobacco dependence - withdrawal	SSAGA_TB_DSM_Withdrawal	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Participant meets DSM criteria for tobacco dependence - withdrawal
Cigarettes per day during heaviest period	SSAGA_TB_Hvy_CPD	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, Cigarettes per day during heaviest period of use (1-5 = 5; 6-10 = 10; 11-15 = 15; 16-20 = 20; >20 = 30)
Most cigarettes smoked in a day	SSAGA_TB_Max_Cigs	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, Most cigarettes smoked in a day (5, 10, 15, 20, >=30)
Cigarettes per day when smoking regularly	SSAGA_TB_Reg_CPD	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, Cigarettes per day when smoking regularly (1-5 = 5; 6-10 = 10; 11-15 = 15; 16-20 = 20; >20 = 30)
Smoking history	SSAGA_TB_Smoking_History	Tier 2 Restricted	^[0-9]+\$	=,NOT =,<,>	Smoking history: never smoked (0), experimented 1-19 times (1), smoked 20+ cigarettes over lifetime, but was never a regular smoker (2), was/is a regular smoker (3)
Whether age last smoked is current age	SSAGA_TB_Still_Smoking	Tier 2 Restricted		=	For those who were/are regular smokers, Is the participant still smoking?

Years since respondent smoked last cigarette	SSAGA_TB_Yrs_Since_Quit	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, Years since respondent smoked last cigarette (0; 1; 2 or more)
Years smoked	SSAGA_TB_Yrs_Smoked	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	For those who were/are regular smokers, Years smoked (1-5 years = 5; 6-10 = 10; 11-15 = 15; 16+ = 18)

## Instrument: Illicit Drug Use

Display Name	Column Header	Access	Validation	Comparators	Description
Times used illicit drugs	SSAGA_Times_Used_Illicits	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	???Is this just a sum of the below?
Times used cocaine	SSAGA_Times_Used_Cocaine	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used cocaine: never used = 0, 1-2 = 1, 3-5 = 1, 6-10 = 5, >10 = 5
Times used hallucinogens	SSAGA_Times_Used_Hallucinogens	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used hallucinogens: never used = 0, 1-2 = 1, 3-5 = 1, 6-10 = 5, >10 = 5
Times used opiates	SSAGA_Times_Used_Opiates	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used opiates: never used = 0, 1-2 = 1, 3-5 = 1, 6-10 = 5, >10 = 5
Times used sedatives	SSAGA_Times_Used_Sedatives	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used sedatives: never used = 0, 1-2 = 1, 3-5 = 1, 6-10 = 5, >10 = 5
Times used stimulants	SSAGA_Times_Used_Stimulants	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used stimulants: never used = 0, 1-2 = 1, 3-5 = 1, 6-10 = 5, >10 = 5

## Instrument: Marijuana Use and Dependence

Display Name	Column Header	Access	Validation	Comparators	Description
Ever used marijuana?	SSAGA_Mj_Use	<b>Tier 2 Restricted</b>		=	Ever used marijuana: no = 0; yes = 1
DSM Marijuana Dependence	SSAGA_Mj_Ab_Dep	<b>Tier 2 Restricted</b>		=	Participant meets DSM criteria for Marijuana Dependence
Age at first marijuana use	SSAGA_Mj_Age_1st_Use	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Age at first marijuana use: <=14 = 1; 15-17 = 2; 18-20 = 3; >=21 = 4
Times used marijuana	SSAGA_Mj_Times_Used	<b>Tier 2 Restricted</b>	^[0-9]+\$	=,NOT =,<,>	Times used marijuana: never used = 0; 1-5 = 1; 6-10 = 2; 11-25 = 3; 26-50 = 3; 51-100 = 3; 101-999 = 4; 1000-2000 = 5; >2000 = 5

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