**Variable Names & Explanations for MIDUS 3 Project 5**

**Character 1:** MIDUS Sample

C = MIDUS 3

**Character 2:** Project #

5 = Project #5

**Character 3:** Measure

S = Self-reports

B = Startle Eyeblink

C = Corrugator EMG

L = Zygomaticus EMG

R = Response Times

A = Response Accuracy

N = CANTAB Cognitive measures

D = Cube & Paper Test

F = Free Recall

T = Picture Ratings

P = Participant Characteristics

H = Handedness

O = Hearing Test

I = Filter for completed MRI

E = Extracted Structural Brain Measurements

W = Extracted Diffusion Weighted Imaging Measurements

**For Ch3** **= S** (i.e., for Self-reports):

**Characters 4 & 5**: Scale

DP = Dispositional Positive Affect Scale (DPES)

PG = General Form of the Positive & Negative Affect Schedule (PANAS)

P1 = Now Form of the PANAS, Time 1 (prior to psychophysiology emotion

response task)

P2 = Now Form of the PANAS, Time 2 (after psychophysiology emotion

response task)

P3 = Now Form of the PANAS, Time 3 (prior to MRI emotion response task)

P4 = Now Form of the PANAS, Time 4 (after MRI emotion response task)

IR = Interpersonal Reactivity Index (IRI)

S1 = Spielberger State Anxiety Scale (STAI-X1), Time 1 (prior to psychophysiology emotion response task)

S2 = Spielberger State Anxiety Scale (STAI-X1), Time 2 (after psychophysiology emotion response task)

S3 = Spielberger State Anxiety Scale (STAI-X1), Time 3 (prior to MRI emotion response task)

S4 = Spielberger State Anxiety Scale (STAI-X1), Time 4 (after MRI emotion response task)

ST = Spielberger Trait Anxiety Scale (STAI-X2)

ER= Emotion Regulation Questionnaire, Reappraisal

ES = Emotion Regulation Questionnaire, Suppression

**For Ch4 & 5** **= DP:**

**Character 6**: Subscale

C = Contentment

J = Joy

H = Hope

L = Love/Attachment

D = Desire

O = Compassion

P = Pride

G = Gratitude

A = Amusement

W = Awe

I = Interest

**Characters 7 & 8**: Measure

None = Summary Measures

Numbers = Individual Questions

**For Ch4 & 5** **= PG, P1, P2, P3, or P4:**

**Character 6:** Subscale

P = Positive Affect

N = Negative Affect

**Characters 7 & 8**: Measure

None = Summary Measures

Numbers = Individual Questions

**For Ch4 & 5** **= IR:**

**Character 6:** Subscale

PT = Perspective-Taking Scale

FS = Fantasy Scale

EC = Empathic Concern Scale

PD = Personal Distress Scale

**Characters 7 & 8:** Measure

None = Summary Measures

Numbers = Individual Questions

**For Ch4 & 5** **= S1, S2, S3, S4, or ST:**

**Characters 6 & 7**: Measure

None = Summary Measures

Numbers = Individual Questions numbers.

**For Ch4 & 5** **= ER or ES:**

**Characters 6 & 7:** Measure

None = Summary Measures

Numbers = Individual Questions numbers.

**For Ch3** **= B** (i.e., for Eyeblink Startle):

C5B = number of valid eyeblink startle responses measured over entire paradigm.

**Character 4**: Picture Valence

N = Negative

O = Neutral

P = Positive

**Character 5:** Probe Time

E = Early (2900 ms after picture onset)

M = Mid (4400 ms after picture onset)

L = Late (5900 ms after picture onset)

**Character 6:** Metric

A = Amplitude (includes only responses, so assesses height of response)

M = Magnitude (includes no responses as a zero, so averaging will be affected by no responses)

**For Ch3** **= C or L** (i.e., for Corrugator and Zygomaticus EMG):

C5C = filter for good corrugator data (bad corrugator data might exhibit high levels of noise and/or artifact)

C5L = filter for good zygomaticus data (bad corrugator data might exhibit high levels of noise and/or artifact)

**Character 4:** Picture Valence

N = Negative

O = Neutral

P = Positive

**Character 5**: Time

E = early (1-4 seconds following picture onset)

M = middle (5-8 seconds following picture onset)

L = late (9-12 seconds following picture onset)

**For Ch3** **= R or A** (i.e., for reaction time and accuracy measures):

**Character 4**: Picture Valence

N = Negative

O = Neutral

P = Positive

**For Ch3 = N** (i.e., for CANTAB cognitive assessments):

**Character 4:** Test type

M = Motor Screening Task

I = Intra-Extra Dimensional Set Shift

A = Affective Go/No-Go

S = Information Sampling Task

T = Attention Switching Task

E = Emotion Recognition Task

G = Cambridge Gambling Task

**For Ch4 = M**:

**Character 5:** Measure

E = Mean Error

L = Mean Latency

**For Ch4 = I:**

**Character(s) 5 (& 6):** Measure type

Numbers = Stage-related measures. See concordance table for list of measures

T = Totals

C = Calculated Measures

**For Ch5 = T or C:**

**Characters 6 & 7:** Measure

Numbers = Total measures. See concordance table for list of measures

**For Ch4 = A:**

**Character 5:** Measure

R = Affective Response Bias (Mean)

L = Mean Correct Latency

T = Total Commissions/Omissions

**For Ch5 = L:**

**Characters 6 & 7**: Trial Type

Numbers = Condition (Positive/Negative/Neutral, Shift/Non-shift)

**For Ch5 = T:**

**Character 6:** Responses/Non-responses

M = Total Commissions

O = Total Omissions

**Character 7:** Trial Type

None = Total

Number = Condition (Positive/Negative/Neutral, Shift/Non-shift)

**For Ch4 = S:**

**Characters 5 & 6:** Measure

Numbers = See Concordance Table for list of measures

**For Ch4 = T:**

**Character 5:**  Measure Type

T = Totals

P = Percentages

L = Latency-Related Measures

C = Cost-Related Measures

**For Ch5 = T, P, or L:**

**Characters 6 & 7:** Measure

Numbers = See Concordance Table for list of measures

**For Ch5 = C:**

**Character 6:** Measure/Trial Type

C = Mean Congruency Cost

S = Mean Switch Cost

**For Ch6 = C or S:**

**Character 7:** Response Type

C = Correct

I = Incorrect

None = All Responses (Correct & Incorrect)

**For Ch4 = E:**

**Character 5:** Measure Type

P = Percentages

T = Totals

L = Latency-Related Measures

**For Ch5 = P or T:**

**Character 6:** Response Type

C = Correct

I = Incorrect

**Character 7:** Stimulus Type

Number = See Concordance Table for list of measures

None = Total Correct (All Stimulus Types)

**For Ch5 = L:**

**Characters 6 & 7:** Stimulus/Response Type

Numbers = See Concordance Table for list of measures

None = Mean Overall Response Latency

**For Ch4 = G:**

**Character 5:** Measure Type

A = Delay Aversion

D = Deliberation Time

P = Overall Proportion Bet

Q = Quality of Decision-Making

J = Risk Adjustment

R = Risk Taking

**Character 6:** Trial Type

A = Ascending Trials

D = Descending Trials

None = All Trials

**For Ch3 = D** (i.e., Cube & Paper Test):

C5D = Cube & Paper Total Correct

**Character 4**: Measure

R = Cube & Paper Total Number of Responses

C = Cube subset

P = Paper subset

**For Ch4 = C or P:**

**Character 5:** Subset - Correct vs Number of Responses

A = Number of Correct Response

B = Number of Responses

**For Ch3 = F** (i.e., Free Recall):

**Character 4:** Measure

R = Total Recalled

M = Seen MRI pictures in addition to psychophysiology task picture prior to completing free recall

S = Total Recalled (Social)

X = Total Recalled (Non-Social)

P = Total Recalled (Positive)

N = Total Recalled (Negative)

O = Total Recalled (Neutral)

**For Ch3 = T** (i.e., Picture Ratings):

**Character 4:** Rating Scale

V = Valence

A = Arousal

**Character 5:** Picture Valence

P = Positive

N = Negative

O = Neutral

**Character 6:** Session

1 = Psychophysiology

2 = MRI

**For Ch3 = P** (i.e., Participant Characteristic):

C5PAGE = Age at P5 visit

C5PDATE\_MO = Month of P5 data collection

C5PDATE\_YR = Year of P5 data collection

**For Ch3 = H** (i.e., Handedness);

C5HAND = Handedness

**For Ch3 = O** (i.e., Hearing Test):

**Character 4:** Side of hearing test or hearing aid use

L =Left Ear

R = Right Ear

A = Hearing aid worn in at least one ear during test

**For Ch4 = L or R:**

**Character 5:** Frequency of tone

1 = 250 Hz

2 = 500 Hz

3 = 1000 Hz

4 = 2000 Hz

5 = 4000 Hz

**For Ch3 = I** (i.e., Filter for completed MRI):

C5IC = filter for completion of MRI imaging protocol (completed at least T1-weighted)

**For Ch3 = E** (i.e., Extracted Structural Brain Measurements):

**Character 4**: Measurement Type

A = Cortical Area

C = Cortical Curvature

T = Cortical Thickness

V = Cortical Volume

S = Subcortical Volume

B = Brain-Predicted Age

**For Ch4 = A, C, T, V, S:**

**Character 5**: Brain Hemisphere

L = Left Hemisphere

R = Right Hemisphere

N = N/A: Measure is bilateral

**Character 6**: Freesurfer Brain Atlas or Module

D = Destrieux

K = Desikan-Killiany

T = Desikan-Killiany-Tourville (DKT)

A = Aseg Subcortical Atlas or Hippocampal Subfield/Amygdala Nuclei Module

**Characters 7-8**:

Numbers = See Concordance Table for list of measures

**For Ch4 = B:**

C5EB = Cole Brain Age Algorithm (PMID: 28765056)

**For Ch3 = W** (i.e., Extracted Diffusion Weighted Imaging Measurements):

**Character 4**: Measurement Type

F = Fractional Anisotropy (FA)

M = Mean Diffusivity (MD)

R = Radial Diffusivity (RD)

A = Axial Diffusivity (AD)

N = Mean Kurtosis (MK)

S = Radial Kurtosis (RK)

B = Axial Kurtosis (AK)

X = Axonal Water Fraction (AWF)

I = Intra-axonal diffusivity (ias\_Da)

P = Extra-axonal radial diffusivity (eas\_de\_perp)

T = Extra-axonal tortuosity (eas\_tort)

D = Neurite density index (NDI)

V = Orientation dispersion index (ODI)

C = Fraction of isotropic diffusion (FISO or CSF)

**Character 5:** Brain Hemisphere

G = Global Measure

L = Left Hemisphere

R = Right Hemisphere

N = N/A: Measure is bilateral

**For Ch5 = G:**

**Character 6:** Tissue type

None = White Matter

A = Gray Matter

C = Cerebro-spinal fluid

**For Ch 5 = L, R, N:**

**Character 6:** Method Used

I = IIT Atlas v4.1 (used in MR1 only)

K = IIT Atlas v5.0

J = JHU Atlas

**Characters 7-8**:

Numbers = See Concordance Table for list of measures

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