

## **VARIABLE NAMES & EXPLANATIONS FOR MIDUS 3 PROJECT 5**

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**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 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 zygomatic data (bad zygomatic 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 MRI):

**Character 4:** Filter variable

C = filter for participation in MRI imaging protocol (completed at least T1-weighted structural scan)

F = radiologist flagged abnormal structural MRI

**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** (i.e., Estimated Brain Age Algorithms):

**Character 5:** Algorithm

None = C5EB = Cole brainageR v1.0 - <https://github.com/james-cole/brainageR/tree/1.0>  
C = Cole brainageR v2.0 - <https://github.com/james-cole/brainageR/tree/2.0>  
T = PMID: 34086565 - <https://github.com/Milan-BUAA/TSAN-brain-age-estimation>  
P = PMID: 36595679 - [https://github.com/irimia-laboratory/USC\\_BA\\_estimator](https://github.com/irimia-laboratory/USC_BA_estimator)

**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 = Cerebrospinal fluid

**For Ch5 = L, R, N:**

**Character 6:** Method Used

H = Harvard Oxford Subcortical Atlas

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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