



RESEARCHERS DATA DICTIONARY

# Mixed-Protocol MRI Data

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## Introduction

The Researcher's Data Dictionary – Mixed Protocol MRI Data is intended to be the first and primary resource for researchers analyzing non-standardized MRI data for Uniform Data Set (UDS) participants (structural MRIs and some with calculated MRI summary data).

The NACC imaging database is a large, freely available sample of MRI scans that are linked to the standardized UDS and Neuropathology data and can also be linked to genotype data from the Alzheimer's Disease Genetics Consortium (ADGC).

MRI scans at NACC are most appropriately described as a convenience sample of images, voluntarily submitted by several Alzheimer's Disease Research Centers (ADRCs). Mixed Protocol MRI data collection and acquisition protocols vary by ADRC. For instance, MRI sessions may include T1-weighted, FLAIR, DTI, T2, or other sequence types (and any combination thereof), and participants may or may not have multiple sessions in the NACC database. There is no defined data collection period, and there are no submission deadlines for MRI scans; instead, the images are submitted at the discretion of the individual ADRCs.

For a subset of the MRIs, calculated summary data are also available. The calculations were performed by the IDEa Lab (Director: Charles DeCarli, MD; University of California, Davis; <http://idealab.ucdavis.edu/>), following ADNI protocols.

### Definitions

Original variables are coded as they are collected from the MRI DICOM header during image processing at NACC or as they were sent to NACC by the IDEa Lab. In some instances, NACC has added codes to explain missing data and to facilitate use of the variable in analyses (e.g., an 8888 code to indicate data not collected for this participant and 9999 to indicate data missing for this variable), but the essential format of the variable remains unchanged.

Derived variables are developed by NACC from the original data collected. These variables provide new information that is collected indirectly from data in the UDS, the DICOM header, or the files provided by the Lab calculating the volumes - for example, NACCNMRI is a calculation of the total number of MRI sessions available at NACC for each UDS participant.

# Table of variables

## Section 1: MRI scan date data

	Variable name	Short descriptor	Data type	Data source
1	<b>NACCDICO</b>	DICOM image file available (y/n)	Numeric longitudinal	NACC derived
2	<b>NACCNIFT</b>	NIfTI image file available (y/n)	Numeric longitudinal	NACC derived
3	<b>MRIMO</b>	Month MRI performed	Numeric longitudinal	MRI DICOM header
4	<b>MRIDY</b>	Day MRI performed	Numeric longitudinal	MRI DICOM header
5	<b>MRIYR</b>	Year MRI performed	Numeric longitudinal	MRI DICOM header
6	<b>NACCMRIA</b>	Participant age at time of MRI	Numeric longitudinal	NACC derived
7	<b>NACCMRFI</b>	File locator variable	Character longitudinal	NACC derived
8	<b>NACCNMRI</b>	Total number of MRI sessions	Numeric cross-sectional	NACC derived
9	<b>NACCMNUM</b>	MRI session in chronological order	Numeric longitudinal	NACC derived
10	<b>NACCMRDY</b>	Days between MRI session and closest UDS visit	Numeric longitudinal	NACC derived
11	<b>NACCMRSA</b>	At least one MRI scan available	Numeric longitudinal	NACC derived

## Section 2: MRI scan type and series-associated data

	Variable name	Short descriptor	Data type	Data source
12	<b>MRIT1</b>	MRI sequence type — T1	Numeric longitudinal	MRI DICOM header
13	<b>MRIT2</b>	MRI sequence type — T2	Numeric longitudinal	MRI DICOM header
14	<b>MRIDTI</b>	MRI sequence type — DTI	Numeric longitudinal	MRI DICOM header
15	<b>MRIDWI</b>	MRI sequence type — DWI	Numeric longitudinal	MRI DICOM header
16	<b>MRIFLAIR</b>	MRI sequence type — FLAIR	Numeric longitudinal	MRI DICOM header
17	<b>MRIOTHER</b>	MRI sequence type — other	Numeric longitudinal	MRI DICOM header
18	<b>MRIFIELD</b>	Magnetic field strength (T)	Numeric longitudinal	MRI DICOM header
19	<b>MRIMANU</b>	Manufacturer	Numeric longitudinal	MRI DICOM header
20	<b>MRIMODL</b>	Manufacturer's model name	Numeric longitudinal	MRI DICOM header

## Section 3: MRI calculated summary data

### Section 3a. Gross brain volumes

	Variable name	Short descriptor	Data type	Data source
21	<b>NACCMVOL</b>	Calculated summary data available (y/n)	Numeric longitudinal	NACC derived
22	<b>NACCICV</b>	Total intracranial volume (cc)	Numeric longitudinal	NACC derived
23	<b>NACCWMVL</b>	Total white matter volume (cc)	Numeric longitudinal	NACC derived
24	<b>NACCBENV</b>	Total brain volume (cc)	Numeric longitudinal	NACC derived
25	<b>CSFVOL</b>	Total brain cerebrospinal fluid volume (cc)	Numeric longitudinal	IDeA Lab
26	<b>GRAYVOL</b>	Total brain gray matter volume (cc)	Numeric longitudinal	IDeA Lab
27	<b>WHITEVOL</b>	Total brain white matter volume (cc)	Numeric longitudinal	IDeA Lab
28	<b>WMHVOL</b>	Total brain white matter hyperintensity volume (cc)	Numeric longitudinal	IDeA Lab
29	<b>CEREALL</b>	Total cerebrum cranial volume (cc)	Numeric longitudinal	IDeA Lab
30	<b>CERETISS</b>	Total cerebrum brain volume (cc)	Numeric longitudinal	IDeA Lab
31	<b>CERECSF</b>	Total cerebrum cerebrospinal fluid volume (cc)	Numeric longitudinal	IDeA Lab
32	<b>CEREGR</b>	Total cerebrum gray matter volume (cc)	Numeric longitudinal	IDeA Lab
33	<b>CEREWH</b>	Total cerebrum white matter volume (cc)	Numeric longitudinal	IDeA Lab
34	<b>LHIPPO</b>	Segmented left hippocampus volume (cc)	Numeric longitudinal	IDeA Lab

	Variable name	Short descriptor	Data type	Data source
35	<b>RHIPPO</b>	Segmented right hippocampus volume (cc)	Numeric longitudinal	IDeA Lab
36	<b>HIPPOVOL</b>	Segmented total hippocampi volume (cc)	Numeric longitudinal	IDeA Lab
37	<b>LLATVENT</b>	Segmented left lateral ventricle volume (cc)	Numeric longitudinal	IDeA Lab
38	<b>RLATVENT</b>	Segmented right lateral ventricle volume (cc)	Numeric longitudinal	IDeA Lab
39	<b>LATVENT</b>	Segmented total lateral ventricle volume (cc)	Numeric longitudinal	IDeA Lab
40	<b>THIRVENT</b>	Segmented total third ventricle volume (cc)	Numeric longitudinal	IDeA Lab
41	<b>LFRFCORT</b>	Segmented left frontal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
42	<b>RFRFCORT</b>	Segmented right frontal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
43	<b>FRCORT</b>	Segmented total frontal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
44	<b>LOCCORT</b>	Segmented left occipital lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
45	<b>ROCCORT</b>	Segmented right occipital lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
46	<b>OCCORT</b>	Segmented total occipital lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
47	<b>LPARCORT</b>	Segmented left parietal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
48	<b>RPARCORT</b>	Segmented right parietal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
49	<b>PARCORT</b>	Segmented total parietal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
50	<b>LTEMPCOR</b>	Segmented left temporal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
51	<b>RTEMPCOR</b>	Segmented right temporal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab
52	<b>TEMPCOR</b>	Segmented total temporal lobe cortical gray matter volume (cc)	Numeric longitudinal	IDeA Lab

*Section 3b. Regional gray matter volumes*

	Variable name	Short descriptor	Data type	Data source
53	<b>LCAC</b>	Left caudal anterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
54	<b>RCAC</b>	Right caudal anterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
55	<b>LCMF</b>	Left caudal middle frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
56	<b>RCMF</b>	Right caudal middle frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
57	<b>LCUN</b>	Left cuneus gray matter volume (cc)	Numeric longitudinal	IDeA Lab
58	<b>RCUN</b>	Right cuneus gray matter volume (cc)	Numeric longitudinal	IDeA Lab
59	<b>LENT</b>	Left entorhinal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
60	<b>RENT</b>	Right entorhinal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
61	<b>LFUS</b>	Left fusiform gray matter volume (cc)	Numeric longitudinal	IDeA Lab
62	<b>RFUS</b>	Right fusiform gray matter volume (cc)	Numeric longitudinal	IDeA Lab
63	<b>LINFPAR</b>	Left inferior parietal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
64	<b>RINFPAR</b>	Right inferior parietal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
65	<b>LINFTEMP</b>	Left inferior temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
66	<b>RINFTEMP</b>	Right inferior temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab

	Variable name	Short descriptor	Data type	Data source
67	<b>LINSULA</b>	Left insula gray matter volume (cc)	Numeric longitudinal	IDeA Lab
68	<b>RINSULA</b>	Right insula gray matter volume (cc)	Numeric longitudinal	IDeA Lab
69	<b>LISTHC</b>	Left isthmus cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
70	<b>RISTHC</b>	Right isthmus cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
71	<b>LLATOCC</b>	Left lateral occipital gray matter volume (cc)	Numeric longitudinal	IDeA Lab
72	<b>RLATOCC</b>	Right lateral occipital gray matter volume (cc)	Numeric longitudinal	IDeA Lab
73	<b>LLATORBF</b>	Left lateral orbitofrontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
74	<b>RLATORBF</b>	Right lateral orbitofrontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
75	<b>LLING</b>	Left lingual gray matter volume (cc)	Numeric longitudinal	IDeA Lab
76	<b>RLING</b>	Right lingual gray matter volume (cc)	Numeric longitudinal	IDeA Lab
77	<b>LMEDORBF</b>	Left medial orbitofrontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
78	<b>RMEDORBF</b>	Right medial orbitofrontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
79	<b>LMIDTEMP</b>	Left middle temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
80	<b>RMIDTEMP</b>	Right middle temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
81	<b>LPARCEN</b>	Left paracentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
82	<b>RPARCEN</b>	Right paracentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
83	<b>LPARHIP</b>	Left parahippocampal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
84	<b>RPARHIP</b>	Right parahippocampal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
85	<b>LPARSOP</b>	Left pars opercularis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
86	<b>RPARSOP</b>	Right pars opercularis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
87	<b>LPARORB</b>	Left pars orbitalis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
88	<b>RPARORB</b>	Right pars orbitalis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
89	<b>LPARTRI</b>	Left pars triangularis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
90	<b>RPARTRI</b>	Right pars triangularis gray matter volume (cc)	Numeric longitudinal	IDeA Lab
91	<b>LPERCAL</b>	Left pericalcarine gray matter volume (cc)	Numeric longitudinal	IDeA Lab
92	<b>RPERCAL</b>	Right pericalcarine gray matter volume (cc)	Numeric longitudinal	IDeA Lab
93	<b>LPOSCEN</b>	Left postcentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
94	<b>RPOSCEN</b>	Right postcentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
95	<b>LPOSCIN</b>	Left posterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
96	<b>RPOSCIN</b>	Right posterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
97	<b>LPRECEN</b>	Left precentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
98	<b>RPRECEN</b>	Right precentral gray matter volume (cc)	Numeric longitudinal	IDeA Lab
99	<b>LPRECUN</b>	Left precuneus gray matter volume (cc)	Numeric longitudinal	IDeA Lab
100	<b>RPRECUN</b>	Right precuneus gray matter volume (cc)	Numeric longitudinal	IDeA Lab
101	<b>LROSANC</b>	Left rostral anterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
102	<b>RROSANC</b>	Right rostral anterior cingulate gray matter volume (cc)	Numeric longitudinal	IDeA Lab
103	<b>LROSMF</b>	Left rostral middle frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
104	<b>RROSMF</b>	Right rostral middle frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
105	<b>LSUPFR</b>	Left superior frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
106	<b>RSUPFR</b>	Right superior frontal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
107	<b>LSUPPAR</b>	Left superior parietal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
108	<b>RSUPPAR</b>	Right superior parietal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
109	<b>LSUPTEM</b>	Left superior temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
110	<b>RSUPTEM</b>	Right superior temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
111	<b>LSUPMAR</b>	Left supramarginal gray matter volume (cc)	Numeric longitudinal	IDeA Lab

	Variable name	Short descriptor	Data type	Data source
112	<b>RSUPMAR</b>	Right supramarginal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
113	<b>LTRTEM</b>	Left transverse temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab
114	<b>RTRTEM</b>	Right transverse temporal gray matter volume (cc)	Numeric longitudinal	IDeA Lab

Section 3c. Regional cortical thicknesses

	Variable name	Short descriptor	Data type	Data source
115	<b>LCACM</b>	Left caudal anterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
116	<b>RCACM</b>	Right caudal anterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
117	<b>LCMFM</b>	Left caudal middle frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
118	<b>RCMFM</b>	Right caudal middle frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
119	<b>LCUNM</b>	Left cuneus mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
120	<b>RCUNM</b>	Right cuneus mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
121	<b>LENTM</b>	Left entorhinal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
122	<b>RENTM</b>	Right entorhinal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
123	<b>LFUSM</b>	Left fusiform mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
124	<b>RFUSM</b>	Right fusiform mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
125	<b>LINFPARM</b>	Left inferior parietal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
126	<b>RINFPARM</b>	Right inferior parietal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
127	<b>LINFTEMM</b>	Left inferior temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
128	<b>RINFTEMM</b>	Right inferior temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
129	<b>LINSULAM</b>	Left insula mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
130	<b>RINSULAM</b>	Right insula mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
131	<b>LISTHCM</b>	Left isthmus cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
132	<b>RISTHCM</b>	Right isthmus cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
133	<b>LLATOCCM</b>	Left lateral occipital mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
134	<b>RLATOCCM</b>	Right lateral occipital mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
135	<b>LLATORBM</b>	Left lateral orbitofrontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
136	<b>RLATORBM</b>	Right lateral orbitofrontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
137	<b>LLINGM</b>	Left lingual mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
138	<b>RLINGM</b>	Right lingual mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
139	<b>LMEDORBM</b>	Left medial orbitofrontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
140	<b>RMEDORBM</b>	Right medial orbitofrontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
141	<b>LMIDTEMM</b>	Left middle temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
142	<b>RMIDTEMM</b>	Right middle temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
143	<b>LPARCENM</b>	Left paracentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
144	<b>RPARCENM</b>	Right paracentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
145	<b>LPARHIPM</b>	Left parahippocampal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab

	Variable name	Short descriptor	Data type	Data source
146	<b>RPARHIPM</b>	Right parahippocampal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
147	<b>LPARSOPM</b>	Left pars opercularis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
148	<b>RPARSOPM</b>	Right pars opercularis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
149	<b>LPARORBM</b>	Left pars orbitalis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
150	<b>RPARORBM</b>	Right pars orbitalis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
151	<b>LPARTRIM</b>	Left pars triangularis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
152	<b>RPARTRIM</b>	Right pars triangularis mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
153	<b>LPERCALM</b>	Left pericalcarine mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
154	<b>RPERCALM</b>	Right pericalcarine mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
155	<b>LPOSCENM</b>	Left postcentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
156	<b>RPOSCENM</b>	Right postcentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
157	<b>LPOSCINM</b>	Left posterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
158	<b>RPOSCINM</b>	Right posterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
159	<b>LPRECENM</b>	Left precentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
160	<b>RPRECENM</b>	Right precentral mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
161	<b>LPRECUNM</b>	Left precuneus mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
162	<b>RPRECUNM</b>	Right precuneus mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
163	<b>LROSANCM</b>	Left rostral anterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
164	<b>RROSANCM</b>	Right rostral anterior cingulate mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
165	<b>LROSMFM</b>	Left rostral middle frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
166	<b>RROSMFM</b>	Right rostral middle frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
167	<b>LSUPFRM</b>	Left superior frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
168	<b>RSUPFRM</b>	Right superior frontal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
169	<b>LSUPPARM</b>	Left superior parietal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
170	<b>RSUPPARM</b>	Right superior parietal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
171	<b>LSUPTMM</b>	Left superior temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
172	<b>RSUPTMM</b>	Right superior temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
173	<b>LSUPMARM</b>	Left supramarginal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
174	<b>RSUPMARM</b>	Right supramarginal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
175	<b>LTRTEMM</b>	Left transverse temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab
176	<b>RTRTEMM</b>	Right transverse temporal mean cortical thickness (mm)	Numeric longitudinal	IDeA Lab

## Variable definitions

## SECTION 1: MRI SCAN DATE INFORMATION

**NACCDICO**

Short descriptor	DICOM image file available (y/n)
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>0=No, MRI DICOM format not available</b> <b>1=Yes, MRI DICOM format available</b>
Description/derivation	This variable flags MRI scans that are available in DICOM format.

**NACCNIFT**

Short descriptor	NiftI image file available (y/n)
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>0=No, MRI NiftI format not available</b> <b>1=Yes, MRI NiftI format available</b>
Description/derivation	This variable flags MRI scans that are available in NiftI format.

**MRIMO**

Short descriptor	Month MRI performed
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0-12</b> <b>88=Not applicable/no MRI available</b>
Description/derivation	This variable indicates the month during which the MRI was performed.

**MRIDY**

Short descriptor	Day MRI performed
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0-31</b> <b>88=Not applicable/no MRI available</b>
Description/derivation	This variable indicates the day of the month during which the MRI was performed.

**MRIYR**

Short descriptor	Year MRI performed
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>2000-current year</b> <b>8888=Not applicable/no MRI available</b>
Description/derivation	This variable indicates the year during which the MRI was performed.

**NACCMRIA**

Short descriptor	Participant age at time of MRI
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>18-120</b> <b>888=Not applicable/no MRI available</b>
Description/derivation	This variable provides the participant's age at the time of the MRI session. Birth month and birth year are required elements in the UDS; however, birth day is not collected. To calculate age at MRI, birth day is set to 1 for all UDS participants, and <b>NACCMRIA</b> is computed as MRI date - birth date.

**NACCMRFI**

Short descriptor	MRI file locator variable
Data type	Character longitudinal
Data Source	NACC derived
Allowable codes	<b>"MRI" followed by four digits and ".zip"</b> <b>Blank=No file available/no MRI available</b>
Description/derivation	This variable provides a unique identifier for the MRI zip file.

**NACCNMRI**

Short descriptor	Total number of MRI sessions
Data type	Numeric cross-sectional
Data Source	NACC derived
Allowable codes	<b>1-20</b> <b>88=No file available/no MRI available</b>
Description/derivation	This variable provides the number of MRI sessions a UDS participant has in the NACC database, regardless of time between sessions. Note that while this variable is listed for all visits, it does not change across visits; it is cross-sectional.

**NACCMNUM**

Short descriptor	MRI session in chronological order
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>1-20</b> <b>88=No file available/no MRI available</b>
Description/derivation	This variable assigns a number to each MRI session per participant ID, in chronological order, beginning with the first MRI available at NACC.

**NACCMRDY**

Short descriptor	Days between MRI and closest UDS visit
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>-3650 to 3650</b> <b>8888=No file available/no MRI available</b>
Description/derivation	This variable is the MRI data minus the <i>closest</i> UDS visit date for every MRI. For MRI sessions before the closest visit date, <b>NACCMRDY</b> <0, and for MRI sessions after the closest visit date, <b>NACCMRDY</b> >0.

**NACCMRSA**

Short descriptor	At least one MRI scan available
Data type	Numeric cross-sectional
Data Source	NACC derived
Allowable codes	<b>0=No; does not have at least one MRI available at NACC</b> <b>1=Yes; has at least one MRI available at NACC</b>
Description/derivation	Records the volume of temporal CSF for a given MRI.

## SECTION 2: MRI SEQUENCE TYPE AND OTHER SERIES-ASSOCIATED DATA

**MRIT1**

Short descriptor	MRI sequence type — T1
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=T1 not available</b> <b>1=T1 available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), "Series Description" in the MR image header.

**MRIT2**

Short descriptor	MRI sequence type — T2
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=T2 not available</b> <b>1=T2 available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), "Series Description" in the MR image header.

**MRIDTI**

Short descriptor	MRI sequence type — DTI
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=DTI not available</b> <b>1=DTI available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), "Series Description" in the MR image header.

**MRIDWI**

Short descriptor	MRI sequence type — DWI
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=DWI not available</b> <b>1=DWI available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), "Series Description" in the MR image header.

**MRIFLAIR**

Short descriptor	MRI sequence type — FLAIR
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=FLAIR not available</b> <b>1=FLAIR available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), "Series Description" in the MR image header.

**MRIOTHER**

Short descriptor	MRI sequence type — other
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>0=Other scan type not available</b> <b>1=Other scan type available</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 103E), “Series Description” in the MR image header.

**MRIFIELD**

Short descriptor	Magnetic field strength (T)
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>1=1.5</b> <b>2=3.0</b> <b>5=Other</b> <b>7=Field strength varies across images</b> <b>8=Not applicable/no MRI available</b> <b>9=Missing/unknown</b>
Description/derivation	This variable is derived from the DICOM tag (0018, 0087) “Magnetic field strength” in the MR image header. Where applicable, units of gauss were converted to tesla (1 gauss=1x10 <sup>4</sup> T).
	<b>Note:</b> The format of the DICOM header data is not consistent across Centers, sessions, sequences, and possibly even images within a given sequence. To help identify images with certain technical properties, NACC has created this variable from text strings contained within the DICOM tags. Analysts should confirm these data by examining the DICOM header data.

**MRIMANU**

Short descriptor	Manufacturer
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>1=GE</b> <b>2=Siemens</b> <b>5=Other</b> <b>8=Not applicable/no MRI available</b> <b>9=Missing/unknown</b>
Description/derivation	This variable is determined from the DICOM tag (0008, 0070) “Manufacturer” in the MR image header.
	<b>Note:</b> The format of the DICOM header data is not consistent across Centers, sessions, sequences, and possibly even images within a given sequence. To help identify images with certain technical properties, NACC has created this variable from text strings contained within the DICOM tags. Analysts should confirm these data by examining the DICOM header data.

**MRIMODL**

Short descriptor	Manufacturer's model name
Data type	Numeric longitudinal
Data Source	MRI DICOM header
Allowable codes	<b>1=DISCOVERY MR 750</b> <b>2=GENESIS SIGNA</b> <b>3=SIGNA HDxt</b> <b>4=Trio Trim</b> <b>5=Eclipse 1.5T</b> <b>6=Allegra</b> <b>7=SIGNA EXCITE</b> <b>8=SIGNA</b> <b>9=GEMINI</b> <b>10=INGENUITY</b> <b>11=Sonata</b> <b>12=Skyra</b> <b>13=Signa HDx</b> <b>14=Achieva</b> <b>15=Prisma</b> <b>16=Verio</b> <b>88=Not applicable/no MRI available</b> <b>99=Missing/unknown</b>

**Description/derivation** This variable is determined from the DICOM tag (0008, 1090) "Manufacturer's model name" in the MR image header.

**Note:** The format of the DICOM header data is not consistent across Centers, sessions, sequences, and possibly even images within a given sequence. To help identify images with certain technical properties, NACC has created this variable from text strings contained within the DICOM tags. Analysts should confirm these data by examining the DICOM header data.

## SECTION 3: MRI CALCULATED SUMMARY DATA

Calculated summary data for NACC MRIs are provided by the IDeA Lab at University of California, Davis. All original total and lobar volumes are calculated per the ADNI four-tissue segmentation protocol, and hippocampal volume is calculated per the EADC-ADNI harmonized protocol. Documents describing calculation methods and protocols are provided to the investigator at the time of the data request.

### Section 3a. Gross volume definitions

#### NACCMVOL

Short descriptor	Calculated summary data available (y/n)
Data type	Numeric longitudinal
Data Source	NACC derived
Allowable codes	<b>0=No, calculated summary data not available for this MRI</b> <b>1=Yes, calculated summary data is available for this MRI</b> <b>8=Not applicable/no MRI available</b>
Description/derivation	Indicates MRIs with corresponding calculated summary data available.

#### NACCICV

Short descriptor	Total intracranial volume (cc)
Data type	Numeric longitudinal
Data Source	NACC derived
Variable length	<b>XXXX.XXX</b>
Allowable codes	<b>8888.888=Not applicable/no MRI available/calculations not performed</b> <b>9999.999=Missing/could not calculate</b>
Description/derivation	Records the total intracranial volume for a given MRI by summing gray matter, white matter, CSF, and white matter hyperintensities ( <b>NACCICV=GRAYVOLI + WHITEVOL + CSFVOLI + WMHVOL</b> ). <b>NACCICV</b> also represents the total image segmentation volume for a given MRI, per the ADNI four-tissue segmentation protocol.

#### NACCWMVL

Short descriptor	Total white matter volume (cc)
Data type	Numeric longitudinal
Data Source	NACC derived
Variable length	<b>XXXX.XXX</b>
Allowable codes	<b>8888.888=Not applicable/no MRI available/calculations not performed</b> <b>9999.999=Missing/could not calculate</b>
Description/derivation	Total white matter volume is calculated by summing white matter volume and white matter hyperintensity volume ( <b>NACCWMVL = WHITEVOL + WMHVOL</b> ).

#### NACCBRNV

Short descriptor	Total brain volume (cc)
Data type	Numeric longitudinal
Data Source	NACC derived
Variable length	<b>XXXX.XXX</b>
Allowable codes	<b>8888.888=Not applicable/no MRI available/calculations not performed</b> <b>9999.999=Missing/could not calculate</b>
Description/derivation	Records the total brain volume for a given MRI by summing the gray and white matter ( <b>NACCBRNV=GRAYVOL + WHITEVOL</b> ).

**CSFVOL**

Short descriptor	Total brain cerebrospinal fluid volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the volume of intracranial cerebrospinal fluid (CSF) for a given MRI.

**GRAYVOL**

Short descriptor	Total brain gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total volume of gray matter for a given MRI.

**WHITEVOL**

Short descriptor	Total brain white matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total volume of white matter for a given MRI.

**WMHVOL**

Short descriptor	Total brain white matter hyperintensity volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the volume of white matter hyperintensities for a given MRI.

**CEREALL**

Short descriptor	Total cerebrum cranial volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total cerebrum cranial volume for a given MRI.

**CERETISS**

Short descriptor	Total cerebrum brain volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total cerebrum brain volume for a given MRI.

**CERECFS**

Short descriptor	Total cerebrum cerebrospinal fluid volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total cerebrum cerebrospinal fluid volume for a given MRI.

**CEREGR**

Short descriptor	Total cerebrum gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total cerebrum gray matter volume for a given MRI.

**CEREWH**

Short descriptor	Total cerebrum white matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXXX.XXXX</b>
Allowable codes	<b>8888.8888=Not applicable/no MRI available/calculations not performed</b> <b>9999.9999=Missing/could not calculate</b>
Description/derivation	Records the total cerebrum white matter volume for a given MRI.

**LHIPPO**

Short descriptor	Segmented left hippocampus volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left hippocampus volume for a given MRI.

**RHIPPO**

Short descriptor	Segmented right hippocampus volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right hippocampus volume for a given MRI.

**HIPPOVOL**

Short descriptor	Segmented total hippocampi volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total hippocampi volume for a given MRI.

**LLATVENT**

Short descriptor	Segmented left lateral ventricle volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left lateral ventricle volume for a given MRI.

**RLATVENT**

Short descriptor	Segmented right lateral ventricle volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right lateral ventricle volume for a given MRI.

**LATVENT**

Short descriptor	Segmented total lateral ventricle volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total lateral ventricle volume for a given MRI.

**THIRVENT**

Short descriptor	Segmented total third ventricle volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total third ventricle volume for a given MRI.

**LFRCORT**

Short descriptor	Segmented left frontal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left frontal lobe cortical gray matter volume for a given MRI.

**RFRCORT**

Short descriptor	Segmented right frontal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right frontal lobe cortical gray matter volume for a given MRI.

**FRCORT**

Short descriptor	Segmented total frontal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total frontal lobe cortical gray matter volume for a given MRI.

**LOCCORT**

Short descriptor	Segmented left occipital lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left occipital lobe cortical gray matter volume for a given MRI.

**ROCCORT**

Short descriptor	Segmented right occipital lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right occipital lobe cortical gray matter volume for a given MRI.

**OCCORT**

Short descriptor	Segmented total occipital lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total occipital lobe cortical gray matter volume for a given MRI.

**LPARCORT**

Short descriptor	Segmented left parietal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left parietal lobe cortical gray matter volume for a given MRI.

**RPARCORT**

Short descriptor	Segmented right parietal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right parietal lobe cortical gray matter volume for a given MRI.

**PARCORT**

Short descriptor	Segmented total parietal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total parietal lobe cortical gray matter volume for a given MRI.

**LTEPCOR**

Short descriptor	Segmented left temporal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented left temporal lobe cortical gray matter volume for a given MRI.

**RTEPCOR**

Short descriptor	Segmented right temporal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented right temporal lobe cortical gray matter volume for a given MRI.

**TEPCOR**

Short descriptor	Segmented total temporal lobe cortical gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XXX.XXXX</b>
Allowable codes	<b>888.8888=Not applicable/no MRI available/calculations not performed</b> <b>999.9999=Missing/could not calculate</b>
Description/derivation	Records the segmented total temporal lobe cortical gray matter volume for a given MRI.

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### Section 3b. Regional gray matter volumes

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#### LCAC

Short descriptor	Left caudal anterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left caudal anterior cingulate gray matter volume for a given MRI.

---

#### RCAC

Short descriptor	Right caudal anterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right caudal anterior cingulate gray matter volume for a given MRI.

---

#### LCMF

Short descriptor	Left caudal middle frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left caudal middle frontal gray matter volume for a given MRI.

---

#### RCMF

Short descriptor	Right caudal middle frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right caudal middle frontal gray matter volume for a given MRI.

---

#### LCUN

Short descriptor	Left cuneus gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left cuneus gray matter volume for a given MRI.

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**RCUN**

Short descriptor	Right cuneus gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the righth cuneus gray matter volume for a given MRI.

**LENT**

Short descriptor	Left entorhinal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left entorhinal gray matter volume for a given MRI.

**RENT**

Short descriptor	Right entorhinal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right entorhinal gray matter volume for a given MRI.

**LFUS**

Short descriptor	Left fusiform gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left fusiform gray matter volume for a given MRI.

**RFUS**

Short descriptor	Right fusiform gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right fusiform gray matter volume for a given MRI.

**LINFPAR**

Short descriptor	Left inferior parietal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left inferior parietal gray matter volume for a given MRI.

**RINFPAR**

Short descriptor	Right inferior parietal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right inferior parietal gray matter volume for a given MRI.

**LINFTEMP**

Short descriptor	Left inferior temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left inferior temporal gray matter volume for a given MRI.

**RINFTEMP**

Short descriptor	Right inferior temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right inferior temporal gray matter volume for a given MRI.

**LINSULA**

Short descriptor	Left insula gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left insula gray matter volume for a given MRI.

**RINSULA**

Short descriptor	Right insula gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right insula gray matter volume for a given MRI.

**LISTHC**

Short descriptor	Left isthmus cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left isthmus cingulate gray matter volume for a given MRI.

**RISTHC**

Short descriptor	Right isthmus cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right isthmus cingulate gray matter volume for a given MRI.

**LLATOCC**

Short descriptor	Left lateral occipital gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lateral occipital gray matter volume for a given MRI.

**RLATOCC**

Short descriptor	Right lateral occipital gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lateral occipital gray matter volume for a given MRI.

**LLATORBF**

Short descriptor	Left lateral orbitofrontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lateral orbitofrontal gray matter volume for a given MRI.

**RLATORBF**

Short descriptor	Right lateral orbitofrontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lateral orbitofrontal gray matter volume for a given MRI.

**LLING**

Short descriptor	Left lingual gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lingual gray matter volume for a given MRI.

**RLING**

Short descriptor	Right lingual gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lingual gray matter volume for a given MRI.

**LMEDORBF**

Short descriptor	Left medial orbitofrontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left medial orbitofrontal gray matter volume for a given MRI.

**RMEDORBF**

Short descriptor	Right medial orbitofrontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right medial orbitofrontal gray matter volume for a given MRI.

**LMIDTEMP**

Short descriptor	Left middle temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left middle temporal gray matter volume for a given MRI.

**RMIDTEMP**

Short descriptor	Right middle temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right middle temporal gray matter volume for a given MRI.

**LPARCEN**

Short descriptor	Left paracentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left paracentral gray matter volume for a given MRI.

**RPARCEN**

Short descriptor	Right paracentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right paracentral gray matter volume for a given MRI.

**LPARHIP**

Short descriptor	Left parahippocampal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left parahippocampal gray matter volume for a given MRI.

**RPARHIP**

Short descriptor	Right parahippocampal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right parahippocampal gray matter volume for a given MRI.

**LPARSOP**

Short descriptor	Left pars opercularis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars opercularis gray matter volume for a given MRI.

**RPARSOP**

Short descriptor	Right pars opercularis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars opercularis gray matter volume for a given MRI.

**LPARORB**

Short descriptor	Left pars orbitalis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars orbitalis gray matter volume for a given MRI.

**RPARORB**

Short descriptor	Right pars orbitalis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars orbitalis gray matter volume for a given MRI.

**LPARTRI**

Short descriptor	Left pars triangularis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars triangularis gray matter volume for a given MRI.

**RPARTRI**

Short descriptor	Right pars triangularis gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars triangularis gray matter volume for a given MRI.

**LPERCAL**

Short descriptor	Left pericalcarine gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pericalcarine gray matter volume for a given MRI.

**RPERCAL**

Short descriptor	Right pericalcarine gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pericalcarine gray matter volume for a given MRI.

**LPOSCEN**

Short descriptor	Left postcentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left postcentral gray matter volume for a given MRI.

**RPOSCEN**

Short descriptor	Right postcentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right postcentral gray matter volume for a given MRI.

**LPOSCIN**

Short descriptor	Left posterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left posterior cingulate gray matter volume for a given MRI.

**RPOSCIN**

Short descriptor	Right posterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right posterior cingulate gray matter volume for a given MRI.

**LPRECEN**

Short descriptor	Left precentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left precentral gray matter volume for a given MRI.

**RPRECEN**

Short descriptor	Right precentral gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right precentral gray matter volume for a given MRI.

**LPRECUN**

Short descriptor	Left precuneus gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left precuneus gray matter volume for a given MRI.

**RPRECUN**

Short descriptor	Right precuneus gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right precuneus gray matter volume for a given MRI.

**LROSANC**

Short descriptor	Left rostral anterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left rostral anterior cingulate gray matter volume for a given MRI.

**RROSANC**

Short descriptor	Right rostral anterior cingulate gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right rostral anterior cingulate gray matter volume for a given MRI.

**LROSMF**

Short descriptor	Left rostral middle frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left rostral middle frontal gray matter volume for a given MRI.

**RROSMF**

Short descriptor	Right rostral middle frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right rostral middle frontal gray matter volume for a given MRI.

**LSUPFR**

Short descriptor	Left superior frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior frontal gray matter volume for a given MRI.

**RSUPFR**

Short descriptor	Right superior frontal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior frontal gray matter volume for a given MRI.

**LSUPPAR**

Short descriptor	Left superior parietal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior parietal gray matter volume for a given MRI.

**RSUPPAR**

Short descriptor	Right superior parietal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior parietal gray matter volume for a given MRI.

**LSUPTM**

Short descriptor	Left superior temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior temporal gray matter volume for a given MRI.

**RSUPTM**

Short descriptor	Right superior temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior temporal gray matter volume for a given MRI.

**LSUPMAR**

Short descriptor	Left supramarginal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left supramarginal gray matter volume for a given MRI.

**RSUPMAR**

Short descriptor	Right supramarginal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right supramarginal gray matter volume for a given MRI.

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**LTRTEM**

Short descriptor	Left transverse temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left transverse temporal gray matter volume for a given MRI.

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**RTRTEM**

Short descriptor	Right transverse temporal gray matter volume (cc)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right transverse temporal gray matter volume for a given MRI.

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### Section 3c. Regional cortical thickness definitions

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**LCACM**

Short descriptor	Left caudal anterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left caudal anterior cingulate mean cortical thickness for a given MRI.

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**RCACM**

Short descriptor	Right caudal anterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right caudal anterior cingulate mean cortical thickness for a given MRI.

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**LCMFM**

Short descriptor	Left caudal middle frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left caudal middle frontal mean cortical thickness for a given MRI.

---

**RCMFM**

Short descriptor	Right caudal middle frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right caudal middle frontal mean cortical thickness for a given MRI.

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**LCUNM**

Short descriptor	Left cuneus mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left cuneus mean cortical thickness for a given MRI.

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**RCUNM**

Short descriptor	Right cuneus mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right cuneus mean cortical thickness for a given MRI.

**LENTM**

Short descriptor	Left entorhinal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left entorhinal mean cortical thickness for a given MRI.

**RENTM**

Short descriptor	Right entorhinal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right entorhinal mean cortical thickness for a given MRI.

**LFUSM**

Short descriptor	Left fusiform mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left fusiform mean cortical thickness for a given MRI.

**RFUSM**

Short descriptor	Right fusiform mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right fusiform mean cortical thickness for a given MRI.

**LINFARM**

Short descriptor	Left inferior parietal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left inferior parietal mean cortical thickness for a given MRI.

**RINFARM**

Short descriptor	Right inferior parietal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right inferior parietal mean cortical thickness for a given MRI.

**LINFTEMM**

Short descriptor	Left inferior temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left inferior temporal mean cortical thickness for a given MRI.

**RINFTEMM**

Short descriptor	Right inferior temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right inferior temporal mean cortical thickness for a given MRI.

**LINSULAM**

Short descriptor	Left insula mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left insula mean cortical thickness for a given MRI.

**RINSULAM**

Short descriptor	Right insula mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right insula mean cortical thickness for a given MRI.

**LISTHCM**

Short descriptor	Left isthmus cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left isthmus cingulate mean cortical thickness for a given MRI.

**RISTHCM**

Short descriptor	Right isthmus cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right isthmus cingulate mean cortical thickness for a given MRI.

**LLATOCCM**

Short descriptor	Left lateral occipital mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lateral occipital mean cortical thickness for a given MRI.

**RLATOCCM**

Short descriptor	Right lateral occipital mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lateral occipital mean cortical thickness for a given MRI.

**LLATORBM**

Short descriptor	Left lateral orbitofrontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lateral orbitofrontal mean cortical thickness for a given MRI.

**RLATORBM**

Short descriptor	Right lateral orbitofrontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lateral orbitofrontal mean cortical thickness for a given MRI.

**LLINGM**

Short descriptor	Left lingual mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left lingual mean cortical thickness for a given MRI.

**RLINGM**

Short descriptor	Right lingual mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right lingual mean cortical thickness for a given MRI.

**LMEDORBM**

Short descriptor	Left medial orbitofrontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left medial orbitofrontal mean cortical thickness for a given MRI.

**RMEDORB**

Short descriptor	Right medial orbitofrontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right medial orbitofrontal mean cortical thickness for a given MRI.

**LMIDTEMM**

Short descriptor	Left middle temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left middle temporal mean cortical thickness for a given MRI.

**RMIDTEMM**

Short descriptor	Right middle temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right middle temporal mean cortical thickness for a given MRI.

**LPARCENM**

Short descriptor	Left paracentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left paracentral mean cortical thickness for a given MRI.

**RPARCENM**

Short descriptor	Right paracentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right paracentral mean cortical thickness for a given MRI.

**LPARHIPM**

Short descriptor	Left parahippocampal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left parahippocampal mean cortical thickness for a given MRI.

**RPARHIPM**

Short descriptor	Right parahippocampal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right parahippocampal mean cortical thickness for a given MRI.

**LPARSOPM**

Short descriptor	Left pars opercularis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars opercularis mean cortical thickness for a given MRI.

**RPARSOPM**

Short descriptor	Right pars opercularis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars opercularis mean cortical thickness for a given MRI.

**LPARORB**

Short descriptor	Left pars orbitalis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars orbitalis mean cortical thickness for a given MRI.

**RPARORB**

Short descriptor	Right pars orbitalis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars orbitalis mean cortical thickness for a given MRI.

**LPARTRIM**

Short descriptor	Left pars triangularis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pars triangularis mean cortical thickness for a given MRI.

**RPARTRIM**

Short descriptor	Right pars triangularis mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pars triangularis mean cortical thickness for a given MRI.

**LPERCALM**

Short descriptor	Left pericalcarine mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left pericalcarine mean cortical thickness for a given MRI.

**RPERCALM**

Short descriptor	Right pericalcarine mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right pericalcarine mean cortical thickness for a given MRI.

**LPOSCENM**

Short descriptor	Left postcentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left postcentral mean cortical thickness for a given MRI.

**RPOSCENM**

Short descriptor	Right postcentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right postcentral mean cortical thickness for a given MRI.

**LPOSCINM**

Short descriptor	Left posterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left posterior cingulate mean cortical thickness for a given MRI.

**RPOSCINM**

Short descriptor	Right posterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right posterior cingulate mean cortical thickness for a given MRI.

**LPRECENM**

Short descriptor	Left precentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left precentral mean cortical for a given MRI.

**RPRECENM**

Short descriptor	Right precentral mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right precentral mean cortical for a given MRI.

**LPRECUNM**

Short descriptor	Left precuneus mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left precuneus mean cortical thickness for a given MRI.

**RPRECUNM**

Short descriptor	Right precuneus mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right precuneus mean cortical thickness for a given MRI.

**LROSANCM**

Short descriptor	Left rostral anterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left rostral anterior cingulate mean cortical thickness for a given MRI.

**RROSANCM**

Short descriptor	Right rostral anterior cingulate mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right rostral anterior cingulate mean cortical thickness for a given MRI.

**LROSMFM**

Short descriptor	Left rostral middle frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left rostral middle frontal mean cortical thickness for a given MRI.

**RROSMFM**

Short descriptor	Right rostral middle frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right rostral middle frontal mean cortical thickness for a given MRI.

**LSUPFRM**

Short descriptor	Left superior frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior frontal mean cortical thickness for a given MRI.

**RSUPFRM**

Short descriptor	Right superior frontal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior frontal mean cortical thickness for a given MRI.

**LSUPPARM**

Short descriptor	Left superior parietal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior parietal mean cortical thickness for a given MRI.

**RSUPP ARM**

Short descriptor	Right superior parietal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>XX.XXXX</b>
Allowable codes	<b>88.8888=Not applicable/no MRI available/calculations not performed</b> <b>99.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior parietal mean cortical thickness for a given MRI.

**LSUPTEMM**

Short descriptor	Left superior temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left superior temporal mean cortical thickness for a given MRI.

**RSUPTEMM**

Short descriptor	Right superior temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right superior temporal mean cortical thickness for a given MRI.

**LSUPMARM**

Short descriptor	Left supramarginal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left supramarginal mean cortical thickness for a given MRI.

**RSUPMARM**

Short descriptor	Right supramarginal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right supramarginal mean cortical thickness for a given MRI.

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**LTRTEMM**

Short descriptor	Left transverse temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the left transverse temporal mean cortical thickness for a given MRI.

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**RTRTEMM**

Short descriptor	Right transverse temporal mean cortical thickness (mm)
Data type	Numeric longitudinal
Data Source	IDeA Lab
Variable length	<b>X.XXXX</b>
Allowable codes	<b>8.8888=Not applicable/no MRI available/calculations not performed</b> <b>9.9999=Missing/could not calculate</b>
Description/derivation	Records the right transverse temporal mean cortical thickness for a given MRI.

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