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NACC Minimum Data Set (MDS) Data Element Dictionary

(Version 8, 2006)

NUMERICAL INDEX OF VARIABLES

NACC MDS Data Element Dictionary, version 8.00, 2006

Variable number	Variable name	Page
1	MDB001	1
2	ADCID	2
3	PTID	3
4a	ABSMO	3
4b	ABSDAY	3
4c	ABSYEAR	4
5a	BIRTHMO	4
5b	BIRTHDAY	4
5c	BIRTHYR	4
6	SEX	5
7	RACE	5
8	HISPANIC	5
10	EDUC	6
11	MARISTAT	7
12	RESIDENC	7
13a	FEVALMO	8
13b	FEVALDAY	8
13c	FEVALYR	8
14	MMSEFRST	9
15a	REVALMO	9
15b	REVALDAY	10
15c	REVALYR	10
16	MMSELAST	11
17	CLINDEM	11
17a	NOTDEMCI	12
18	AGEDEM	12
19	CLDEMDX	13
20	CLDEMLEW	13
21	NONADDEM	14
22a	STROKE	14
22b	PDNODEM	15
22c	DEP	15
22d	DEL	15

Variable number	Variable name	Page
23	RLDEM	16
23a	NUMRLDEM	16
24	MULTBRTH	16
25	VITALST	17
26a	DEATHMO	17
26b	DEATHDAY	18
27	AUTOPSY	19
28	BIOPSY	19
29	NPTHPRIM	20
30	NPTHSECN	21
31	BRNFRZN	22
32	BRNFRMLN	22
33	BRNPARFN	23
34	CSFPOSTM	23
35	CSFANTEM	24
36	DNA	24
37	SERUM	25
38	APOE	25
39	NPSYCH	26
40a	CT	26
40b	PET	27
40c	SPECT	27
40d	MRI	38
41	SOURCE	28
42a	MMSEMO	29
42b	MMSEDAY	29
42c	MMSEYR	29
43a	CONTMO	30
43b	CONTDAY	30
43c	CONTYR	31
44	ACTIVE	31
45	VERSION	32
46	EOR	32

ALPHABETICAL INDEX OF VARIABLES

NACC MDS Data Element Dictionary, version 8.00, 2006

Variable number	Variable name	Page
4b	ABSDAY	3
4a	ABSMO	3
4c	ABSYEAR	4
44	ACTIVE	31
2	ADCID	2
18	AGEDEM	12
38	APOE	25
27	AUTOPSY	29
28	BIOPSY	19
5b	BIRTHDAY	4
5a	BIRTHMO	4
5c	BIRTHYR	4
32	BRNFRMLN	22
31	BRNFRZN	22
33	BRNPARFN	23
19	CLDEMDX	13
20	CLDEMLEW	13
17	CLINDEM	11
43b	CONTDAY	30
43a	CONTMO	30
43c	CONTYR	31
35	CSFANTEM	24
34	CSFPOSTM	23
40a	CT	26
26b	DEATHDAY	18
26a	DEATHMO	15
26c	DEATHYR	18
22d	DEL	15
22c	DEP	15
36	DNA	24
10	EDUC	6
45	EOR	32
13b	FEVALDAY	8
13a	FEVALMO	8

Variable number	Variable name	Page
13c	FEVALYR	8
8	HISPANIC	5
11	MARISTAT	7
1	MDB001	1
42b	MMSEDAY	29
14	MMSEFRST	9
16	MMSELAST	11
42a	MMSEMO	29
42c	MMSEYR	29
40d	MRI	28
24	MULTBRTH	16
21	NONADDEM	14
17a	NOTDEMC	12
39	NPSCYH	26
29	NPTHPRIM	20
30	NPTHSECN	21
23a	NUMRLDEM	16
22b	PDNODEM	15
40b	PET	27
9	PRIMLANG	6
3	PTID	3
7	RACE	5
12	RESIDENC	7
15b	REVALDAY	10
15a	REVALMO	9
15c	REVALYR	10
23	RLDEM	16
37	SERUM	25
6	SEX	5
41	SOURCE	28
40c	SPECT	27
22a	STROKE	14
45	VERSION	32
25	VITALST	17

NACC MDS Data Element Dictionary

The data element dictionary is formatted the same as last year, due to favorable feedback. **Variable names** are indicated in **Blue**. You will find that **changes** in the Minimum Data Set have been highlighted in **Red**. Each **variable** has its own **Green** box. Each box includes the following information:

Variable Number – Indicates order of appearance on the MDS form.

Variable Name – For non-fixed format files, variable name must match exactly.

Short Descriptor – Used on the web page to indicate variable.

MDS Question – The question as it appears on the MDS Form.

Length of Field – For fixed field formats, number of columns for this variable.

Column Positions – For fixed field formats, column numbers for this variable.

SAS Variable Type – For non-fixed field formats, variable type as numerical or character.

SAS Variable Length – For non-fixed field formats, variable length.

Allowable Codes and Missing Codes – List of codes with mapping instructions.

Skips and Blanks – Instructions for skip patterns.

Comments – Other instructions as needed.

Variable Number	1
Variable Name	MDB001
Short Descriptor	none
MDS Question	Form Identifier
Length of Field	6
Column Positions	1-6
SAS Variable Type	Character
SAS Variable Length	6
Allowable Codes	MDB001
Comment	<i>Required</i>

Variable Number	2
Variable Name	ADCID
Short Descriptor	Center
MDS Question	Center ID
Length of Field	2
Column Positions	8-9
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	<p>1-36, Use code below as your Center ID:</p> <p>1 = BAYLOR 2 = BOSTON U 3 = CASE WESTERN 4 = COLUMBIA 5 = DUKE 6 = EMORY 7 = MASSACHUSETTS ADR 8 = INDIANA U 9 = JOHNS HOPKINS 10 = MAYO 11 = MOUNT SINAI 12 = NEW YORK U 13 = NORTHWESTERN 14 = OREGON HEALTH & SCIENCE U 15 = RUSH U 16 = U CALIFORNIA, DAVIS 17 = U CALIFORNIA, LOS ANGELES 18 = U CALIFORNIA, SAN DIEGO 19 = U KENTUCKY 20 = U MICHIGAN 21 = U PENNSYLVANIA 22 = U PITTSBURGH 23 = U ROCHESTER 25 = U TEXAS SOUTHWESTERN 26 = U WASHINGTON 27 = WASHINGTON U IN SAINT LOUIS 28 = U ALABAMA 29 = U KANSAS 30 = U SOUTHERN CALIFORNIA 31 = U CALIFORNIA, IRVINE 32 = STANFORD 33 = ARIZONA 34 = U ARKANSAS 35 = U CALIFORNIA, SAN FRANCISCO 36 = FLORIDA</p>
Comment	<p><i>Required</i></p> <p>NOTE: ADCID is replaced by a randomly generated NACCADC in research data sets generated by NACC.</p>

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	3 PTID Patient ID Patient ID 10 11-20 Character 10 Follow your Center's Patient ID scheme <i>Required</i> Patient ID number must be unique within data set from your Center (no duplicates). PTID for each subject must be the same at each data call; PTID cannot change once it has been assigned by your Center. NOTE: PTID is replaced by a randomly generated NACCID in research data sets generated by NACC.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	4a ABSMO Abstract date Date record was abstracted from Center data: Month 2 22-23 Numeric 8 1 – 12 <i>Required</i> Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	4b ABSDAY Abstract date Date record was abstracted from Center data: Day 2 25-26 Numeric 8 1 – 31 <i>Required</i> Must meet criteria for valid date.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	4c ABSYEAR Abstract date Date record was abstracted from Center data: Year 4 28 – 31 Numeric 8 2005 – 2006 Required Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Codes Comment	5a BIRTHMO Birth date Subject's date of birth: Month 2 33 – 34 Numeric 8 1 – 12 99 Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	5b BIRTHDAY Birth date Subject's date of birth: Day 2 36 – 37 Numeric 8 1 – 31 99 Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	5c BIRTHYR Birth date Subject's date of birth: Year 4 39 – 42 Numeric 8 1875 – 1991 Required – Missing (9999s) not allowed.

Variable Number	6
Variable Name	SEX
Short Descriptor	Gender
MDS Question	Subject's sex
Length of Field	1
Column Positions	44
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	1 or 2 1 = Male 2 = Female
Comment	<i>Required – Missing (9s) not allowed.</i>
Variable Number	7
Variable Name	RACE
Short Descriptor	Race
MDS Question	Subject's race
Length of Field	2
SAS Variable Type	Numeric
SAS Variable Length	8
Column Positions	46 – 47
Allowable Codes	1 – 4, 50, 99 1 = White 2 = Black 3 = American Indian or Alaskan Native 4 = Asian or Pacific Islander 50 = Other 99 = Missing/Unknown
Missing Code	
Variable Number	8
Variable Name	HISPANIC
Short Descriptor	Hispanic
MDS Question	Is the subject Spanish/Hispanic/Latino?
Length of Field	1
Column Positions	49
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	1, 2 1 = Yes 2 = No
Missing Code	9 = Missing/Unknown

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Comment</p>	<p>9 PRIMLANG Language Subject's primary language</p> <p>1 51 Numeric 8 1 – 3</p> <p>1 = English 2 = Spanish 3 = Other Primary Language 9 = Missing/Unknown</p> <p>If unknown, indicate language used for psychometric testing. For bilingual subjects, primary language is the subject's first language, even if English as a second language is spoken more often now.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code</p>	<p>10 EDUC Education Subject's education: Highest grade or number of years of regular school completed.</p> <p>2 53 – 54 Numeric 8 0 – 36, Code actual number of years of education if known. For categorical data, use the following conventions:</p> <p>8 = Elementary School 8 = Less than High School 12 = High School 14 = Greater than High School 16 = College 18 = Masters 20 = Doctorate 99 = Missing/Unknown</p>

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Comment</p>	<p>11 MARISTAT Marital Status Most recent marital status</p> <p>1 56 Numeric 8 1 – 6</p> <p>1 = Married 2 = Widowed 3 = Divorced 4 = Separated 5 = Never married 6 = Other, e.g. not married but cohabitating</p> <p>Use “3” for combination “Divorced/separated”. 9 = Missing/Unknown</p> <p>Marital status at the most recent contact. If the subject is cohabitating, he/she should no longer be coded as widowed, divorced, etc.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code</p>	<p>12 RESIDENC Residence Type of residence at most recent evaluation.</p> <p>1 58 Numeric 8 1 – 5</p> <p>1 = Private residence 2 = Retirement community 3 = Assisted living/boarding home/adult family home 4 = Skilled nursing facility/ nursing home 5 = Other</p> <p>Use “4” for combination “Assisted living/Skilled nursing facility” 9 = Missing/Unknown</p>

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	13a FEVALMO First Eval Date Date of initial NIA-funded Alzheimer’s Disease Center evaluation: Month 2 60 – 61 Numeric 8 1 – 12 99 Date based on in-person evaluation, not telephone interview. Date must be between initial funding date of Center and the date of record abstraction. Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	13b FEVALDAY First Eval Date Date of initial NIA-funded Alzheimer’s Disease Center evaluation: Day 2 63 – 64 Numeric 8 1 – 31 99 Date based on in-person evaluation, not telephone interview. Date must be between initial funding date of Center and the date of record abstraction. Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	13c FEVALYR First Eval Date Date of initial NIA-funded Alzheimer’s Disease Center evaluation: Year 4 66 – 69 Numeric 8 Date must be between initial funding date of Center and the date of record abstraction. 9999 Date based on in-person evaluation, not telephone interview. Date cannot be prior to date of birth. Must meet criteria for valid date. Alert will be generated if both FEVALYR and REVALYR are missing.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	14 MMSEFRST First MMSE Mini-Mental State Exam score (0 to 30) at initial NIA-funded evaluation (only if done at or after FEVALYR) 2 71 – 72 Numeric 8 0 – 30, 88 88 = Not collected at this Center for this type of ID 99 = Missing/Unknown If the first MMSE was obtained more than a year after the FEVALYR or was derived from another test, please consult NACC before coding. If the first MMSE was done prior to NIA funding date, it should not be used.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	15a REVALMO Last Eval Date Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Month 2 74 – 75 Numeric 8 1 – 12 99 Date based on in-person evaluation, not telephone interview. Date must occur after NIA funding for ADC Center, date of birth, and date of first evaluation. Date must be prior to abstraction date. If subject had only an initial evaluation, REVALMO = FEVALMO. Must meet criteria for valid date

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	15b REVALDAY Last Eval Date Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Day 2 77 – 78 Numeric 8 1 – 31 99 Date based on in-person evaluation, not telephone interview. Date cannot be prior to NIA funding for ADC Center, date of birth, or date of first evaluation. Date must be prior to abstraction date. If subject had only an initial evaluation, REVALDAY = FEVALDAY. Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	15c REVALYR Last Eval Date Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Year 4 80 – 83 Numeric 8 Between initial funding date of Center and the date of record abstraction. 9999 Date based on in-person evaluation, not telephone interview. Date must occur after NIA funding for ADC Center, date of birth, and date of first evaluation. Date must be prior to abstraction date. If subject had only an initial evaluation, REVALYR = FEVALYR. Must meet criteria for valid date. Alert will be generated if both FEVALYR and REVALYR are missing.

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Comment</p>	<p>16 MMSELAST Last MMSE Most recent Mini-Mental State Exam score (0 to 30) 2 85 – 86 Numeric 8 0 – 30, 88 88 = Not collected at this Center for this type of ID 99 = Missing/Unknown If subject had only an initial MMSE, then MMSELAST = MMSEFRST. If the last MMSE was derived from another test, please consult NACC before coding.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Skips Comment</p>	<p>17 CLINDEM Clinical Dementia Did the subject meet clinical criteria for dementia (e.g. DSM IV or other) at the most recent evaluation for dementia? 1 88 Numeric 8 1, 2 1 = Yes 2 = No – includes questionable dementia or diagnosis not completed If CLINDEM = 1 then go to #18, AGEDEM. If CLINDEM = 2 then continue. Required – Missing (9s) not allowed. All subjects who do not meet clinical criteria for dementia should be indicated by a “2”. Use #17a, NOTDEMCI to further describe these subjects.</p>

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Blanks Skips Comment	17a NOTDEMCI Dx if no dementia If the subject did not meet criteria for dementia, what was the diagnosis? 1 90 Numeric 8 1 – 6 1 = Not demented control subject, no neurological disorder 2 = Not demented, but has other neurological disorder (such as Parkinson’s, MS, etc.) 3 = Questionable dementia (e.g. CDR = 0.5) or cognitive impairment (MCI, AAMI) 4 = Down Syndrome but not demented 5 = Other 6 = No diagnosis made 9 = Missing/Unknown Blank if #17, CLINDEM = 1 Go to #22a, STROKE. (Contingency check for combination of MMSE <17 and CLINDEM = 2 has been removed.)
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Blanks Alerts Comment	18 AGEDEM Age Dementia At what age did the subject develop dementia symptoms? 3 92 – 94 Numeric 8 0 – 130 999 Blank if #17, CLINDEM = 2 Unlikely if ≤ 39 or ≥ 102 Refers to age of onset of dementia symptoms, not age at which diagnosis was made. Age at most recent evaluation must be greater than or equal to age subject developed dementia. For assistance mapping categorical data, please contact NACC. This data must be INTEGER only.

<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Blanks Skips</p>	<p>19 CLDEMDX Primary Clinical DX Was the primary clinical dementia diagnosis Alzheimer's at the most recent evaluation for dementia?</p> <p>1 96 Numeric 8 1 – 3</p> <p>1 = Alzheimer's disease (e.g. NINCDS "probable Alzheimer's disease" or DSM IV "dementia of the Alzheimer's type") 2 = Alzheimer's disease with other conditions or variations in course (e.g., NINCDS "possible Alzheimer's disease", DSM IV multiple etiologies where Alzheimer's is the predominate cause) 3 = Non-Alzheimer's dementia (primary cause of dementia is not Alzheimer's) 9 = Missing/Unknown</p> <p>Blank if #17, CLINDEM = 2 If CLDEMDX = 3, go to #21 NONADDEM If CLDEMDX = 9, go to #22a, STROKE If CLDEMDX = 1 or 2, continue</p>
<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Blanks</p> <p>Skip</p>	<p>20 CLDEMLEW Lewy Bodies If the primary clinical dementia diagnosis is Alzheimer's disease (CLDEMDX = 1 or 2), does the subject also meet clinical criteria for dementia with Lewy bodies, Lewy body variant Alzheimer's disease, or diffuse Lewy body disease?</p> <p>1 98 Numeric 8 1, 2</p> <p>1 = Yes 2 = No 9 = Missing/Unknown</p> <p>Blank if #17, CLINDEM = 2 Blank if #19, CLDEMDX = 3 or 9 Go to #22a, STROKE</p>

<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Blanks</p> <p>Comment</p>	<p>21 NONADDEM Non-Alzheimer's Dementia Diagnosis If the primary clinical dementia diagnosis is non-Alzheimer's dementia, what is the suspected etiology?</p> <p>2 100 - 101 Numeric 8 1 - 14, 16-18</p> <ul style="list-style-type: none"> 1 = Frontal lobe dementias (e.g. Pick's, FTD) 2 = Parkinson's disease dementia 3 = Huntington's disease (HD) 4 = Progressive supranuclear palsy (PSP) 5 = Alcohol related dementias 6 = Corticobasal degeneration 7 = Communicating, obstructive, or normal pressure hydrocephalus 8 = Vascular dementia (e.g. dementia due to stroke) 9 = Dementia with Lewy bodies (not Parkinson's dementia) 10 = Prion-associated dementia (e.g. Creutzfeldt-Jakob) 11 = Human immunodeficiency virus (HIV) encephalopathy 12 = Primary progressive aphasia 13 = Posterior cortical dysfunction 14 = Down syndrome 16 = Dementia due to multiple non-Alzheimer's etiologies 17 = Dementia due to other general medical conditions 18 = Other (Dementia not otherwise specified) 99 = Missing/Unknown <p>Blank if #17, CLINDEM = 2 Blank if #19, CLDEMDX = 1, 2, or 9</p> <p>If you do not know how to code this variable, consult your Clinical Core Director, then call NACC.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code</p>	<p>22a STROKE Stroke Does the subject have a history of stroke?</p> <p>1 103 Numeric 8 1, 2</p> <ul style="list-style-type: none"> 1 = Yes 2 = No 9 = Missing/Unknown

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	22b PDNODEM Parkinson's Does the subject have Parkinson's disease? 1 105 Numeric 8 1, 2 1 = Yes 2 = No 9 = Missing/Unknown Please code for any diagnosis of Parkinsons, whether they have dementia or not.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code	22c DEP Depression Did the subject have depression at the most recent evaluation? 1 107 Numeric 8 1, 2 1 = Yes 2 = No 9 = Missing/Unknown
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code	22d DEL Delirium Did the subject have delirium at the most recent evaluation? 1 109 Numeric 8 1, 2 1 = Yes 2 = No 9 = Missing/Unknown

<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Skips</p>	<p>23 RLDEM Relatives with Dementia Were any first degree relatives (parents, siblings, or children of subject) reported to have had dementia (by symptoms, history, or diagnosis)?</p> <p>1 111 Numeric 8 1, 2, 8</p> <p>1 = Yes 2 = No 8 = Not collected at this Center for this type of ID 9 = Missing/Unknown</p> <p>If RLDEM = 2, 8 or 9, go to #24, MULTBRTH IF RLDEM = 1, continue.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question</p> <p>Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code Blanks</p>	<p>23a NUMRLDEM Number affected relatives How many first-degree relatives were reported to have had dementia (by symptoms, history or diagnosis)?</p> <p>2 113 – 114 Numeric 8 1 – 30, 88</p> <p>88 = Not collected at this Center for this type of ID</p> <p>99 Blank if #23, RLDEM = 2, 8 or 9</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Missing Code</p>	<p>24 MULTBRTH Multiple Birth Is the subject from a multiple birth (twin, triplet, etc.)?</p> <p>1 116 Numeric 8 1, 2, 8</p> <p>1 = Yes 2 = No 8 = Not collected at this Center for this type of ID 9 = Missing/Unknown</p>

Variable Number	25
Variable Name	VITALST
Short Descriptor	Vital Status
MDS Question	The subject's last known vital status was:
Length of Field	1
Column Positions	118
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	1, 2
	1 = Alive
	2 = Dead
Skips	If VITALST = 1, then go to # 28 BIOPSY
	If VITALST = 2, continue
Comment	<i>Required – Missing (9s) not allowed.</i>
	Generally, if you have no record of death (regardless of length of time since last contact), this should be coded as 1.
Variable Number	26a
Variable Name	DEATHMO
Short Descriptor	Death Date
MDS Question	Subject's date of death: Month
Length of Field	2
Column Positions	120 – 121
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	1 – 12
Missing Code	99
Blanks	Blank if #25, VITALST = 1
Comment	Date of death should be after birthday, after both first and most recent evaluations, and after Center start date. Date should be prior to abstraction date. Date should match date of last contact (CONTMO, CONTDAY, CONTYR) for deceased subjects. Must meet criteria for valid date.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Blanks Comment	26b DEATHDAY Death Date Subject's date of death: Day 2 123-124 Numeric 8 1 – 31 99 Blank if #25, VITALST = 1 Date of death should be after birthday, after both first and most recent evaluations, and after Center start date. Date should be prior to abstraction date. Date should match date of last contact (CONTMO, CONTDAY, CONTYR) for deceased subjects. Must meet criteria for valid date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Blanks Alert Comment	26c DEATHYR Death Date Subject's date of death: Year 4 126 – 129 Numeric 8 Between year Center initiated and date of abstraction. 9999 Blank if #25, VITALST = 1 Should not exceed 130 years after BIRTHYR Date of death should be after birthday, after both first and most recent evaluations, and after Center start date. Date should be prior to abstraction date. Date should match date of last contact (CONTMO, CONTDAY, CONTYR) for deceased subjects. Must meet criteria for valid date.

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Blanks Comment</p>	<p>27 AUTOPSY Autopsy Has an autopsy been performed that resulted in data or a report that is available or will be available at your Center? 1 131 Numeric 8 1, 2 1 = Yes 2 = No Blank if #25, VITALST = 1 <i>Required – Missing (9s) not allowed.</i> If coded “Yes”, Neuropathology Data Form will be expected for subjects dying after 12/31/2001. If the autopsy report is pending, code “Yes” since the autopsy was done. However, if the autopsy may have been done outside your institution, and you do not have access to that report or data, code “No”. Skip pattern removed. Do not skip biopsy.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Skips Comment</p>	<p>28 BIOPSY Biopsy Has an antemortem brain biopsy been performed? 1 133 Numeric 8 1, 2 1 = Yes 2 = No If #27, AUTOPSY = 1, then continue. If #27 = 2 or was skipped, then go to #35, CSFANTEM <i>Required – Missing (9s) not allowed.</i> Brain biopsy refers to ante-mortem collection of brain tissue. Include this data regardless of autopsy status. Do not use data related to this biopsy sample to answer autopsy questions, #29 – #34. If you do not have the documentation of the brain biopsy at your Center then code “No”.</p>

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>29 NPTHPRIM Primary Neuropath DX What is the primary neuropathological diagnostic classification? 2 135 – 136 Numeric 8 1 – 18</p> <ul style="list-style-type: none"> 1 = Normal Brain 2 = Alzheimer’s disease – Definite (e.g. using CERAD or other neuropathological criteria) 3 = Alzheimer’s disease – Probable (e.g. using CERAD or other neuropathological criteria) 4 = Alzheimer’s disease – Possible (e.g. using CERAD or other neuropathological criteria) 5 = Idiopathic Parkinson’s disease with cortical and/or subcortical Lewy bodies 6 = Dementia with Lewy bodies and AD (Lewy body variant of AD) 7 = Dementia with Lewy bodies without significant AD changes (Pure Lewy body disease) 8 = Vascular dementia 9 = Pick’s disease 10 = Lobar atrophy without Pick’s bodies 11 = Hippocampal sclerosis 12 = Progressive supranuclear palsy 13 = Corticobasal degeneration 14 = Prion-Associated Disease 15 = Down Syndrome 16 = Other 17 = Stroke or cerebrovascular disease but not vascular dementia 18 = Autopsy report pending 99 = Missing/Unknown <p>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1 If NPTHPRIM = 1, “Normal Brain” then #30, NPTHSECN must be blank. If “Normal Brain” or “Alzheimer’s disease” are indicated, NPTHPRIM must be 1, 2, 3, or 4. If “Alzheimer’s disease” is indicated as NPTHPRIM, then indicate the most important secondary diagnosis in #30, NPTHSECN. If # 29, NPTHPRIM = 99, then NPTHSECN = 99. Codes 2 – 8 should be predicated on clinical information. Do not code neuropath diagnosis for brain biopsy.</p>
<p>Missing Code Blanks Skips</p>	
<p>Comment</p>	

Variable Number	30
Variable Name	NPTHSECN
Short Descriptor	Secondary Neuropath DX
MDS Question	What is the secondary neuropathological diagnostic classification?
Length of Field	2
Column Positions	138 – 139
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	1, 4 – 18 1 = No secondary neuropath diagnosis 4 = AD pathology present but insufficient for AD diagnosis 5 = Idiopathic Parkinson’s disease with cortical and/or subcortical Lewy bodies 6 = Dementia with Lewy bodies and AD (Lewy body variant of AD) 7 = Dementia with Lewy bodies without significant AD changes (Pure Lewy body disease) 8 = Vascular dementia 9 = Pick’s disease 10 = Lobar atrophy without Pick’s bodies 11 = Hippocampal sclerosis 12 = Progressive supranuclear palsy 13 = Corticobasal degeneration 14 = Prion-Associated Disease 15 = Down Syndrome 16 = Other 17 = Stroke or cerebrovascular disease but not vascular dementia 18 = Autopsy report pending 99 = Missing/Unknown
Missing Code	Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1
Blanks	Blank if #29, NPTHPRIM = 1, “Normal brain”
Comment	If #29, NPTHPRIM = 99, then NPTHSECN = 99. Responses 5 – 8 should be predicated on clinical information.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Blanks Comment	31 BRNFRZN Frozen Brain Sample Is banked frozen brain tissue accessible? 1 141 Numeric 8 1, 2 1 = Yes 2 = No Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1 <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Blanks Comment	32 BRNFRMLN Formalin Brain Sample Is formalin-fixed brain tissue accessible? 1 143 Numeric 8 1, 2 1 = Yes 2 = No Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1 <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Blanks Comment	33 BRNPARN Paraffin Brain Sample Are paraffin-embedded blocks of brain tissue accessible? 1 145 Numeric 8 1, 2 1 = Yes 2 = No Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1 <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Blanks Comment	34 CSFPOSTM CSF – Postmortem Is banked postmortem cerebrospinal fluid (CSF) accessible? 1 147 Numeric 8 1, 2 1 = Yes 2 = No Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1 <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>35 CSFANTEM CSF – Antemortem Is banked antemortem cerebrospinal fluid (CSF) accessible? 1 149 Numeric 8 1, 2</p> <p style="padding-left: 40px;">1 = Yes 2 = No</p> <p>Comment <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>36 DNA DNA Is banked DNA accessible? 1 151 Numeric 8 1, 2</p> <p style="padding-left: 40px;">1 = Yes 2 = No</p> <p>Comment <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>37 SERUM Serum Is banked serum accessible? 1 153 Numeric 8 1, 2</p> <p style="padding-left: 40px;">1 = Yes 2 = No</p> <p>Comment <i>Required – Missing (9s) not allowed.</i> If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</p>

<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>38 APOE Apoe Has apolipoprotein E (APOE) genotyping been performed? 1 155 Numeric 8 1, 2</p> <p style="padding-left: 40px;">1 = Yes 2 = No</p> <p><i>Required – Missing (9s) not allowed.</i> If the subject’s APOE genotype (data) is not accessible to your Center researchers within a few hours, this question should be coded “2”.</p>
<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p>	<p>39 NPSYCH Neuropsych Tests Are data from neuropsychological test results (not Mini-mental test results) available? 1 157 Numeric 8 1, 2</p> <p style="padding-left: 40px;">1 = Yes 2 = No</p> <p><i>Required – Missing (9s) not allowed.</i> This applies to neuropsychological battery tests rather than screening tests such as MMSE. If data are not available to your Center researchers within a few hours, this question should be coded “2”.</p>
<p>Column Position</p>	<p>159 Not Used</p>

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	40a CT CT Scan Are data (reports, films or digitized computer-based images) from computed tomography (CT) available on this subject at your Center? 1 161 Numeric 8 1, 2 1 = Yes 2 = No <i>Required – Missing (9s) not allowed.</i> Note Column position. If data are not available to your Center researchers within a few hours, then this question should be coded “2”.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	40b PET PET Are data (reports, films or digitized computer-based images) from positron emission tomography (PET) available on this subject at your Center? 1 163 Numeric 8 1, 2 1 = Yes 2 = No <i>Required – Missing (9s) not allowed.</i> If data are not available to your Center researchers within a few hours, then this question should be coded “2”.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	40c SPECT SPECT Are data (reports, films or digitized computer-based images) from single photon emission computed tomography (SPECT) available on this subject at your Center? 1 165 Numeric 8 1, 2 1 = Yes 2 = No <i>Required – Missing (9s) not allowed.</i> If data are not available to your Center researchers within a few hours, then this question should be coded “2”.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	40d MRI MRI Are data (reports, films or digitized computer-based images) from magnetic resonance imaging (MRI) available on this subject at your Center? 1 167 Numeric 8 1, 2 1 = Yes 2 = No <i>Required – Missing (9s) not allowed.</i> If data are not available to your Center researchers within a few hours, then this question should be coded “2”.
Column Positions	169 – 175 Not used

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	41 SOURCE Source Source of subject data. 1 177 Numeric 8 1-4 1 = Clinical Core 2 = Satellite 3 = Center Affiliated Study 4 = Other 9 = Missing/Unknown This variable indicates recruitment source of the subjects included in the MDS. See “Eligibility Criteria”.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	42a MMSEMO Last MMSE Date Date of last Mini-Mental State Exam: Month 2 179 – 180 Numeric 8 1 – 12 99 Must meet criteria for valid date. Date must not occur before site initiation, subject first evaluation date, subject birth date. Date must be prior to abstraction date and date of death.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	42b MMSEDAY Last MMSE Date Date of last Mini-Mental State Exam: Day 2 182 – 183 Numeric 8 1 – 31 99 Must meet criteria for valid date. Date must not occur before site initiation, subject first evaluation date, subject birth date. Date must be prior to abstraction date and date of death.

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	42c MMSEYR Last MMSE Date Date of last Mini-Mental State Exam: Year 4 185- 188 Numeric 8 Between date of first evaluation and date of abstraction. 9999 Must meet criteria for valid date. Date must not occur before site initiation, subject first evaluation date, subject birth date. Date must be prior to abstraction date and date of death.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	43a CONTMO Date of last Contact Date of last contact (telephone or in-person): Month 2 190-191 Numeric 8 1 – 12 99 Date associated with last known vital status. CONTMO = DEATHMO if subject has died. CONTMO = REVALMO if no contact (by phone or in person) has occurred since that time. Must meet criteria for valid date. Date cannot precede site initiation, first or last evaluation, birthday, date of last MMSE. Date must be prior to abstraction date.
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	43b CONTDAY Date of last Contact Date of last contact (telephone or in-person): Day 2 193-194 Numeric 8 1 – 31 99 Date associated with last known vital status. CONTDAY = DEATHDAY if subject has died. CONTDAY = REVALDAY if no contact (by phone or in person) has occurred since that time. Must meet criteria for valid date. Date cannot precede site initiation, first or last evaluation, birthday, date of last MMSE. Date must be prior to abstraction date.

Variable Number	45
Variable Name	VERSION
Short Descriptor	Form Version
MDS Question	Version of MDB001 Form
Length of Field	5
Column Positions	203 – 207
SAS Variable Type	Numeric
SAS Variable Length	8
Allowable Codes	8.00
Comment	<i>Required</i>
Variable Number	46
Variable Name	EOR
Short Descriptor	End of Record indicator
MDS Question	End of Record
Length of Field	1
Column Positions	209
SAS Variable Type	Character
SAS Variable Length	1
Allowable Codes	X, x
Comment	Not required