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# **NACC Minimum Data Set (MDS) Data Element Dictionary**

(Version 8, 2006)

**NUMERICAL INDEX OF VARIABLES**  
**MDS Data Manual, version 8.00, 2006**

(In order by variable number)

Variable Number	Variable Name	For Details See Page	Variable Number	Variable Name	For Details See Page
1	MDB001	page 1	23	RLDEM	page 16
2	ADCID	page 2	23a	NUMRLDEM	page 16
3	PTID	page 3	24	MULTBRTH	page 16
4a	ABSMO	page 3	25	VITALST	page 17
4b	ABSDAY	page 3	26a	DEATHMO	page 17
4c	ABSYEAR	page 4	26b	DEATHDAY	page 18
5a	BIRTHMO	page 4	26c	DEATHYR	page 18
5b	BIRTHDAY	page 4	27	AUTOPSY	page 19
5c	BIRTHYR	page 4	28	BIOPSY	page 19
6	SEX	page 5	29	NPTHPRIM	page 20
7	RACE	page 5	30	NPTHSECN	page 21
8	HISPANIC	page 5	31	BRNFRZN	page 22
9	PRIMLANG	page 6	32	BRNFRMLN	page 22
10	EDUC	page 6	33	BRNPARFN	page 23
11	MARISTAT	page 7	34	CSFPOSTM	page 23
12	RESIDENC	page 7	35	CSFANTEM	page 24
13a	FEVALMO	page 8	36	DNA	page 24
13b	FEVALDAY	page 8	37	SERUM	page 25
13c	FEVALYR	page 8	38	APOE	page 25
14	MMSEFRST	page 9	39	NPSYCH	page 26
15a	REVALMO	page 9	40a	CT	page 26
15b	REVALDAY	page 10	40b	PET	page 27
15c	REVALYR	page 10	40c	SPECT	page 27
16	MMSELAST	page 11	40d	MRI	page 28
17	CLINDEM	page 11	41	SOURCE	page 28
17a	NOTDEMCI	page 12	42a	MMSEMO	page 29
18	AGEDEM	page 12	42b	MMSEDAY	page 29
19	CLDEMIDX	page 13	42c	MMSEYR	page 29
20	CLDEMLEW	page 13	43a	CONTMO	page 30
21	NONADDEM	page 14	43b	CONTDAY	page 30
22a	STROKE	page 14	43c	CONTYR	page 31
22b	PDNODEM	page 15	44	ACTIVE	page 31
22c	DEP	page 15	45	VERSION	page 32
22d	DEL	page 15	46	EOR	page 32

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**ALPHABETICAL INDEX OF VARIABLES**  
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(In order by variable name)

Variable Number	Variable Name	For Details See Page	Variable Number	Variable Name	For Details See Page
4b	ABSDAY	page 3	13c	FEVALYR	page 8
4a	ABSMO	page 3	8	HISPANIC	page 5
4c	ABSYEAR	page 4	11	MARISTAT	page 7
44	ACTIVE	page 31	1	MDB001	page 1
2	ADCID	page 2	42b	MMSEDAY	page 29
18	AGEDEM	page 12	14	MMSEFRST	page 9
38	APOE	page 25	16	MMSELAST	page 11
27	AUTOPSY	page 19	42a	MMSEMO	page 29
28	BIOPSY	page 19	42c	MMSEYR	page 29
5b	BIRTHDAY	page 4	40d	MRI	page 28
5a	BIRTHMO	page 4	24	MULTBRTH	page 16
5c	BIRTHYR	page 4	21	NONADDEM	page 14
32	BRNFRMLN	page 22	17a	NOTDEMCI	page 12
31	BRNFRZN	page 22	39	NPSYCH	page 26
33	BRNPARFN	page 23	29	NPTHPRIM	page 20
19	CLDEMDX	page 13	30	NPTHSECN	page 21
20	CLDEMLEW	page 13	23a	NUMRLDEM	page 16
17	CLINDEM	page 11	22b	PDNODEM	page 15
43b	CONTDAY	page 30	40b	PET	page 27
43a	CONTMO	page 30	9	PRIMLANG	page 6
43c	CONTYR	page 31	3	PTID	Page3
35	CSFANTEM	page 24	7	RACE	page 5
34	CSFPOSTM	page 23	12	RESIDENC	page 7
40a	CT	page 26	15b	REVALDAY	page 10
26b	DEATHDAY	page 18	15a	REVALMO	page 9
26a	DEATHMO	page 17	15c	REVALYR	page 10
26c	DEATHYR	page 18	23	RLDEM	page 16
22d	DEL	page 15	37	SERUM	page 25
22c	DEP	page 15	6	SEX	page 5
36	DNA	page 24	41	SOURCE	page 28
10	EDUC	page 6	40c	SPECT	page 27
45	EOR	page 32	22a	STROKE	page 14
13b	FEVALDAY	page 8	45	VERSION	page 32
13a	FEVALMO	page 8	25	VITALST	page 17

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

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

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	<b>3</b> <b>PTID</b> <b>Patient ID</b> <b>Patient ID</b> <b>10</b> <b>11-20</b> <b>Character</b> <b>10</b> <b>Follow your Center’s Patient ID scheme</b> <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. <b>NOTE: PTID is not available to researchers or the public. It is replaced in the accessible MDS database by a randomly generated NACCID.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	<b>4a</b> <b>ABSMO</b> <b>Abstract date</b> <b>Date record was abstracted from Center data: Month</b> <b>2</b> <b>22-23</b> <b>Numeric</b> <b>8</b> <b>1 – 12</b> <i>Required</i> <b>Must meet criteria for valid date.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Comment	<b>4b</b> <b>ABSDAY</b> <b>Abstract date</b> <b>Date record was abstracted from Center data: Day</b> <b>2</b> <b>25-26</b> <b>Numeric</b> <b>8</b> <b>1 – 31</b> <i>Required</i> <b>Must meet criteria for valid date.</b>

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

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



<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><b>9</b> <b>PRIMLANG</b> <b>Language</b> <b>Subject's primary language</b> <b>1</b> <b>51</b> <b>Numeric</b> <b>8</b> <b>1 – 3</b></p> <p><b>1 = English</b> <b>2 = Spanish</b> <b>3 = Other Primary Language</b> <b>9 = Missing/Unknown</b></p> <p><b>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.</b></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><b>10</b> <b>EDUC</b> <b>Education</b> <b>Subject's education: Highest grade or number of years of regular school completed.</b> <b>2</b> <b>53 – 54</b> <b>Numeric</b> <b>8</b> <b>0 – 36, Code actual number of years of education if known.</b> <b>For categorical data, use the following conventions:</b></p> <p><b>8 = Elementary School</b> <b>8 = Less than High School</b> <b>12 = High School</b> <b>14 = Greater than High School</b> <b>16 = College</b> <b>18 = Masters</b> <b>20 = Doctorate</b> <b>99 = Missing/Unknown</b></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><b>11</b> <b>MARISTAT</b> <b>Marital Status</b> <b>Most recent marital status</b> <b>1</b> <b>56</b> <b>Numeric</b> <b>8</b> <b>1 – 6</b></p> <p><b>1 = Married</b> <b>2 = Widowed</b> <b>3 = Divorced</b> <b>4 = Separated</b> <b>5 = Never married</b> <b>6 = Other, e.g. not married but cohabitating</b></p> <p>Use “3” for combination “Divorced/separated”. <b>9 = Missing/Unknown</b></p> <p><b>Marital status at the most recent contact. If the subject is cohabitating, he/she should no longer be coded as widowed, divorced, etc.</b></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><b>12</b> <b>RESIDENC</b> <b>Residence</b> <b>Type of residence at most recent evaluation.</b> <b>1</b> <b>58</b> <b>Numeric</b> <b>8</b> <b>1 – 5</b></p> <p><b>1 = Private residence</b> <b>2 = Retirement community</b> <b>3 = Assisted living/boarded home/adult family home</b> <b>4 = Skilled nursing facility/ nursing home</b> <b>5 = Other</b></p> <p>Use “4” for combination “Assisted living/Skilled nursing facility” <b>9 = Missing/Unknown</b></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 Missing Code Comment</p>	<p><b>13a</b> <b>FEVALMO</b> <b>First Eval Date</b> <b>Date of initial NIA-funded Alzheimer’s Disease Center evaluation:</b> <b>Month</b></p> <p><b>2</b> <b>60 – 61</b> <b>Numeric</b> <b>8</b> <b>1 – 12</b> <b>99</b></p> <p><b>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.</b></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 Missing Code Comment</p>	<p><b>13b</b> <b>FEVALDAY</b> <b>First Eval Date</b> <b>Date of initial NIA-funded Alzheimer’s Disease Center evaluation:</b> <b>Day</b></p> <p><b>2</b> <b>63 – 64</b> <b>Numeric</b> <b>8</b> <b>1 – 31</b> <b>99</b></p> <p><b>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.</b></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 Comment</p>	<p><b>13c</b> <b>FEVALYR</b> <b>First Eval Date</b> <b>Date of initial NIA-funded Alzheimer’s Disease Center evaluation:</b> <b>Year</b></p> <p><b>4</b> <b>66 – 69</b> <b>Numeric</b> <b>8</b></p> <p><b>Date must be between initial funding date of Center and the date of record abstraction.</b></p> <p><b>9999</b></p> <p><b>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.</b></p>

Variable Number	<b>14</b>
Variable Name	<b>MMSEFRST</b>
Short Descriptor	<b>First MMSE</b>
MDS Question	<b>Mini-Mental State Exam score (0 to 30) at initial NIA-funded evaluation (only if done at or after FEVALYR)</b>
Length of Field	<b>2</b>
Column Positions	<b>71 – 72</b>
SAS Variable Type	<b>Numeric</b>
SAS Variable Length	<b>8</b>
Allowable Codes	<b>0 – 30, 88</b> <b>88 = Not collected at this Center for this type of ID</b> <b>99 = Missing/Unknown</b>
Missing Code	
Comment	<b>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.</b>
Variable Number	<b>15a</b>
Variable Name	<b>REVALMO</b>
Short Descriptor	<b>Last Eval Date</b>
MDS Question	<b>Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Month</b>
Length of Field	<b>2</b>
Column Positions	<b>74 – 75</b>
SAS Variable Type	<b>Numeric</b>
SAS Variable Length	<b>8</b>
Allowable Codes	<b>1 – 12</b>
Missing Code	<b>99</b>
Comment	<b>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</b>

Variable Number Variable Name Short Descriptor MDS Question  Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>15b</b> <b>REVALDAY</b> <b>Last Eval Date</b> <b>Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Day</b> 2 77 – 78 <b>Numeric</b> 8 1 – 31 99 <b>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.</b>
Variable Number Variable Name Short Descriptor MDS Question  Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Missing Code Comment	<b>15c</b> <b>REVALYR</b> <b>Last Eval Date</b> <b>Date of most recent NIA-funded Alzheimer’s Disease Center evaluation: Year</b> 4 80 – 83 <b>Numeric</b> 8 <b>Between initial funding date of Center and the date of record abstraction.</b> 9999 <b>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.</b> <b>Alert will be generated if both FEVALYR and REVALYR are missing.</b>

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

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

<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><b>19</b> <b>CLDEMDX</b> <b>Primary Clinical DX</b> <b>Was the primary clinical dementia diagnosis Alzheimer’s at the most recent evaluation for dementia?</b></p> <p><b>1</b> <b>96</b> <b>Numeric</b> <b>8</b> <b>1 – 3</b></p> <p><b>1 = Alzheimer’s disease (e.g. NINCDS “probable Alzheimer’s disease” or DSM IV “dementia of the Alzheimer’s type”)</b> <b>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)</b> <b>3 = Non-Alzheimer’s dementia (primary cause of dementia is not Alzheimer’s)</b> <b>9 = Missing/Unknown</b></p> <p><b>Blank if #17, CLINDEM = 2</b> <b>If CLDEMDX = 3, go to #21 NONADDEM</b> <b>If CLDEMDX = 9, go to #22a, STROKE</b> <b>If CLDEMDX = 1 or 2, continue</b></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><b>20</b> <b>CLDEMLEW</b> <b>Lewy Bodies</b> <b>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?</b></p> <p><b>1</b> <b>98</b> <b>Numeric</b> <b>8</b> <b>1, 2</b></p> <p><b>1 = Yes</b> <b>2 = No</b> <b>9 = Missing/Unknown</b></p> <p><b>Blank if #17, CLINDEM = 2</b> <b>Blank if #19, CLDEMDX = 3 or 9</b> <b>Go to #22a, STROKE</b></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	<b>22b</b> <b>PDNODEM</b> <b>Parkinson's</b> <b>Does the subject have Parkinson's disease?</b> <b>1</b> <b>105</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b> <b>9 = Missing/Unknown</b> <b>Please code for any diagnosis of Parkinsons, whether they have dementia or not.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Missing Code	<b>22c</b> <b>DEP</b> <b>Depression</b> <b>Did the subject have depression at the most recent evaluation?</b> <b>1</b> <b>107</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b> <b>9 = Missing/Unknown</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Missing Code	<b>22d</b> <b>DEL</b> <b>Delirium</b> <b>Did the subject have delirium at the most recent evaluation?</b> <b>1</b> <b>109</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b> <b>9 = Missing/Unknown</b>

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

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Skips  Comment	<b>25</b> <b>VITALST</b> <b>Vital Status</b> <b>The subject's last known vital status was:</b> <b>1</b> <b>118</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Alive</b> <b>2 = Dead</b>  <b>If VITALST = 1, then go to # 28 BIOPSY</b> <b>If VITALST = 2, continue</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>Generally, if you have no record of death (regardless of length of time since last contact), this should be coded as 1.</b>
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	<b>26a</b> <b>DEATHMO</b> <b>Death Date</b> <b>Subject's date of death: Month</b> <b>2</b> <b>120 – 121</b> <b>Numeric</b> <b>8</b> <b>1 – 12</b> <b>99</b> <b>Blank if #25, VITALST = 1</b> <b>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.</b>

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	<b>26b</b> <b>DEATHDAY</b> <b>Death Date</b> <b>Subject's date of death: Day</b> <b>2</b> <b>123-124</b> <b>Numeric</b> <b>8</b> <b>1 – 31</b> <b>99</b> <b>Blank if #25, VITALST = 1</b> <b>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.</b>
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	<b>26c</b> <b>DEATHYR</b> <b>Death Date</b> <b>Subject's date of death: Year</b> <b>4</b> <b>126 – 129</b> <b>Numeric</b> <b>8</b> <b>Between year Center initiated and date of abstraction.</b> <b>9999</b> <b>Blank if #25, VITALST = 1</b> <b>Should not exceed 130 years after BIRTHYR</b> <b>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.</b>

<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>Blanks Comment</p>	<p><b>27</b> <b>AUTOPSY</b> <b>Autopsy</b> <b>Has an autopsy been performed that resulted in data or a report that is available or will be available at your Center?</b></p> <p><b>1</b> <b>131</b> <b>Numeric</b> <b>8</b> <b>1, 2</b></p> <p style="padding-left: 40px;"><b>1 = Yes</b> <b>2 = No</b></p> <p><b>Blank if #25, VITALST = 1</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>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.</b></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>Skips Comment</p>	<p><b>28</b> <b>BIOPSY</b> <b>Biopsy</b> <b>Has an antemortem brain biopsy been performed?</b></p> <p><b>1</b> <b>133</b> <b>Numeric</b> <b>8</b> <b>1, 2</b></p> <p style="padding-left: 40px;"><b>1 = Yes</b> <b>2 = No</b></p> <p><b>If #27, AUTOPSY = 1, then continue.</b> <b>If #27 = 2 or was skipped, then go to #35, CSFANTEM</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>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.</b> <b>If you do not have the documentation of the brain biopsy at your Center then code “No”.</b></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><b>29</b> <b>NPTHPRIM</b> <b>Primary Neuropath DX</b> <b>What is the primary neuropathological diagnostic classification?</b> <b>2</b> <b>135 – 136</b> <b>Numeric</b> <b>8</b> <b>1 – 18</b></p> <p><b>1 = Normal Brain</b> <b>2 = Alzheimer’s disease – Definite (e.g. using CERAD or other neuropathological criteria)</b> <b>3 = Alzheimer’s disease – Probable (e.g. using CERAD or other neuropathological criteria)</b> <b>4 = Alzheimer’s disease – Possible (e.g. using CERAD or other neuropathological criteria)</b> <b>5 = Idiopathic Parkinson’s disease with cortical and/or subcortical Lewy bodies</b> <b>6 = Dementia with Lewy bodies and AD ( Lewy body variant of AD)</b> <b>7 = Dementia with Lewy bodies without significant AD changes (Pure Lewy body disease)</b> <b>8 = Vascular dementia</b> <b>9 = Pick’s disease</b> <b>10 = Lobar atrophy without Pick’s bodies</b> <b>11 = Hippocampal sclerosis</b> <b>12 = Progressive supranuclear palsy</b> <b>13 = Corticobasal degeneration</b> <b>14 = Prion-Associated Disease</b> <b>15 = Down Syndrome</b> <b>16 = Other</b> <b>17 = Stroke or cerebrovascular disease but not vascular dementia</b> <b>18 = Autopsy report pending</b> <b>99 = Missing/Unknown</b></p>
<p>Missing Code Blanks Skips</p>	<p><b>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1</b> <b>If NPTHPRIM = 1, “Normal Brain” then #30, NPTHSECN must be blank.</b></p>
<p>Comment</p>	<p><b>If “Normal Brain” or “Alzheimer’s disease” are indicated, NPTHPRIM must be 1, 2, 3, or 4.</b> <b>If “Alzheimer’s disease” is indicated as NPTHPRIM, then indicate the most important secondary diagnosis in #30, NPTHSECN.</b> <b>If # 29, NPTHPRIM = 99, then NPTHSECN = 99.</b> <b>Codes 2 – 8 should be predicated on clinical information.</b> <b>Do not code neuropath diagnosis for brain biopsy.</b></p>

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



<p>Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes</p> <p>Blanks Comment</p>	<p><b>31</b> <b>BRNFRZN</b> <b>Frozen Brain Sample</b> <b>Is banked frozen brain tissue accessible?</b> <b>1</b> <b>141</b> <b>Numeric</b> <b>8</b> <b>1, 2</b> <b>1 = Yes</b> <b>2 = No</b></p> <p><b>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</b></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>Blanks Comment</p>	<p><b>32</b> <b>BRNFRMLN</b> <b>Formalin Brain Sample</b> <b>Is formalin-fixed brain tissue accessible?</b> <b>1</b> <b>143</b> <b>Numeric</b> <b>8</b> <b>1, 2</b> <b>1 = Yes</b> <b>2 = No</b></p> <p><b>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</b></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>Blanks Comment</p>	<p><b>33</b> <b>BRNPARN</b> <b>Paraffin Brain Sample</b> <b>Are paraffin-embedded blocks of brain tissue accessible?</b> <b>1</b> <b>145</b> <b>Numeric</b> <b>8</b> <b>1, 2</b> <b>1 = Yes</b> <b>2 = No</b></p> <p><b>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</b></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>Blanks Comment</p>	<p><b>34</b> <b>CSFPOSTM</b> <b>CSF – Postmortem</b> <b>Is banked postmortem cerebrospinal fluid (CSF) accessible?</b> <b>1</b> <b>147</b> <b>Numeric</b> <b>8</b> <b>1, 2</b> <b>1 = Yes</b> <b>2 = No</b></p> <p><b>Blank if #27, AUTOPSY not equal 1 or #25, VITALST = 1</b> <b><i>Required – Missing (9s) not allowed.</i></b> <b>If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</b></p>

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

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Comment	<b>37</b> <b>SERUM</b> <b>Serum</b> <b>Is banked serum accessible?</b> <b>1</b> <b>153</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b>  <b><i>Required – Missing (9s) not allowed.</i></b> <b>If specimen and/or data is not accessible to your Center researchers within a few hours, then this question should be coded “2”.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Comment	<b>38</b> <b>APOE</b> <b>Apoe</b> <b>Has apolipoprotein E (APOE) genotyping been performed?</b> <b>1</b> <b>155</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b>  <b><i>Required – Missing (9s) not allowed.</i></b> <b>If the subject’s APOE genotype (data) is not accessible to your Center researchers within a few hours, this question should be coded “2”.</b>

Variable Number Variable Name Short Descriptor MDS Question  Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Comment	<b>39</b> <b>NPSYCH</b> <b>Neuropsych Tests</b> <b>Are data from neuropsychological test results (not Mini-mental test results) available?</b> <b>1</b> <b>157</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b>  <i>Required – Missing (9s) not allowed.</i> <b>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”.</b>
Column Position	<b>159</b> <b>Not Used</b>
Variable Number Variable Name Short Descriptor MDS Question  Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Comment	<b>40a</b> <b>CT</b> <b>CT Scan</b> <b>Are data (reports, films or digitized computer-based images) from computed tomography (CT) available on this subject at your Center?</b> <b>1</b> <b>161</b> <b>Numeric</b> <b>8</b> <b>1, 2</b>  <b>1 = Yes</b> <b>2 = No</b>  <i>Required – Missing (9s) not allowed.</i> <b>Note Column position.</b> <b>If data are not available to your Center researchers within a few hours, then this question should be coded “2”.</b>

<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>Comment</p>	<p><b>40b</b> <b>PET</b> <b>PET</b></p> <p><b>Are data (reports, films or digitized computer-based images) from positron emission tomography (PET) available on this subject at your Center?</b></p> <p><b>1</b> <b>163</b> <b>Numeric</b> <b>8</b> <b>1, 2</b></p> <p><b>1 = Yes</b> <b>2 = No</b></p> <p><i>Required – Missing (9s) not allowed.</i> <b>If data are not available to your Center researchers within a few hours, then this question should be coded “2”.</b></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>Comment</p>	<p><b>40c</b> <b>SPECT</b> <b>SPECT</b></p> <p><b>Are data (reports, films or digitized computer-based images) from single photon emission computed tomography (SPECT) available on this subject at your Center?</b></p> <p><b>1</b> <b>165</b> <b>Numeric</b> <b>8</b> <b>1, 2</b></p> <p><b>1 = Yes</b> <b>2 = No</b></p> <p><i>Required – Missing (9s) not allowed.</i> <b>If data are not available to your Center researchers within a few hours, then this question should be coded “2”.</b></p>

Variable Number Variable Name Short Descriptor MDS Question  Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Comment	<b>40d</b> <b>MRI</b> <b>MRI</b> <b>Are data (reports, films or digitized computer-based images) from magnetic resonance imaging (MRI) available on this subject at your Center?</b> <b>1</b> <b>167</b> <b>Numeric</b> <b>8</b> <b>1, 2</b> <b>1 = Yes</b> <b>2 = No</b>  <b><i>Required – Missing (9s) not allowed.</i></b> <b>If data are not available to your Center researchers within a few hours, then this question should be coded “2”.</b>
Column Positions	<b>169 – 175</b> <b>Not used</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes  Missing Code Comment	<b>41</b> <b>SOURCE</b> <b>Source</b> <b>Source of subject data.</b> <b>1</b> <b>177</b> <b>Numeric</b> <b>8</b> <b>1-4</b> <b>1 = Clinical Core</b> <b>2 = Satellite</b> <b>3 = Center Affiliated Study</b> <b>4 = Other</b> <b>9 = Missing/Unknown</b>  <b>This variable indicates recruitment source of the subjects included in the MDS. See “Eligibility Criteria”.</b>

Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>42a</b> <b>MMSEMO</b> <b>Last MMSE Date</b> <b>Date of last Mini-Mental State Exam: Month</b> 2 <b>179 – 180</b> <b>Numeric</b> 8 1 – 12 99 <b>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.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>42b</b> <b>MMSEDAY</b> <b>Last MMSE Date</b> <b>Date of last Mini-Mental State Exam: Day</b> 2 <b>182 – 183</b> <b>Numeric</b> 8 1 – 31 99 <b>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.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>42c</b> <b>MMSEYR</b> <b>Last MMSE Date</b> <b>Date of last Mini-Mental State Exam: Year</b> 4 <b>185- 188</b> <b>Numeric</b> 8 <b>Between date of first evaluation and date of abstraction.</b> 9999 <b>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.</b>



Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>43a</b> <b>CONTMO</b> <b>Date of last Contact</b> <b>Date of last contact (telephone or in-person): Month</b> <b>2</b> <b>190-191</b> <b>Numeric</b> <b>8</b> <b>1 – 12</b> <b>99</b> <b>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.</b>
Variable Number Variable Name Short Descriptor MDS Question Length of Field Column Positions SAS Variable Type SAS Variable Length Allowable Codes Missing Code Comment	<b>43b</b> <b>CONTDAY</b> <b>Date of last Contact</b> <b>Date of last contact (telephone or in-person): Day</b> <b>2</b> <b>193-194</b> <b>Numeric</b> <b>8</b> <b>1 – 31</b> <b>99</b> <b>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.</b>



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