



The BIOCARD Study

Biomarkers of Cognitive Decline
Among Normal Individuals

**Neuropathology Findings
Limited Dataset**

November 2015

Glossary of Terms

| Term | Description |
|-------------------|--|
| Allowable Codes | codes (and their meanings) allowed to be values for that variable |
| Audit Findings | error rates based on BIOCARD or NIH phase audits error rates are calculated as number of errors / total number of variables examined |
| Baseline visit | date admitted to NIH phase of BIOCARD study <i>[Note: some data may have been collected prior to this date]</i> |
| Collection | when the variable information was collected (i.e., Baseline, Follow-up) |
| Comments | further information about the variable not covered in the above fields |
| Data Type | numeric or character <i>[Note: Dates are numeric data]</i> numeric or character classifications are strictly related to how the data are stored and not how the data should be analyzed |
| JHU phase | the study phase at JHU from 2009 - present |
| Missing OK If | instances (such as skips) or reasons why a blank or missing value is acceptable |
| NA | not applicable for this variable |
| NIH / NIH phase | the study phase that was performed at the NIH from 1995-2005 |
| Question Text | the question as it appears on the NACC or BIOCARD data collection forms |
| Short Description | a short explanation of what the variable means |
| Source | the name of the NACC form, BIOCARD form, or NIH dataset containing the variable information (or "DERIVED" if the variable was derived) and the variable question number located on the form or in the dataset, if applicable |
| Unknown Code | the codes for the "unknown", "don't know", or missing values for the variable |
| Variable Name | the name of the variable in the provided dataset <i>[Note: Variables will follow the NACC naming scheme as closely as possible]</i> |

Acronyms and Definitions

| | | | |
|-------|--|-------|---|
| AD | Alzheimer's Disease | JHU | The Johns Hopkins University |
| CDR | Clinical Dementia Rating | MCI | Mild Cognitive Impairment |
| CERAD | Consortium to Establish a Registry for Alzheimer's Disease | MMSE | Mini-Mental State Examination |
| CNS | Central Nervous System | NACC | National Alzheimer's Coordinating Center |
| CSF | Cerebrospinal Fluid | NIA | National Institute on Aging |
| CVD | Cardiovascular Disease | NINDS | National Institute of Neurological Disorders and Stroke |
| CVLT | California Verbal Learning Test | NPI-Q | Neuropsychiatric Inventory Questionnaire |
| FAQ | Functional Assessment Questionnaire | UPDRS | Unified Parkinson's Disease Rating Scale |
| FTD | Frontotemporal Degenerations | WAIS | Wechsler Adult Intelligence Scale |
| GDS | Geriatric Depression Scale | WMS | Wechsler Memory Scale |

Neuropathology Findings Limited Dataset Characteristics

Number of variables: 65

Order of variables:

| | | |
|-----|-----------|---|
| 1) | JHUANONID | <i>Participant ID Anonymized by JHU</i> |
| 2) | DODMOBL | <i>Months from baseline visit to date of death</i> |
| 3) | NPSEX | <i>Gender</i> |
| 4) | NPDAGE | <i>Age at death</i> |
| 5) | NPGROSS | <i>Gross or microscopic pathology</i> |
| 6) | NPNIT | <i>AD diagnosis, NIA/Reagan Institute criteria</i> |
| 7) | NPCERAD | <i>AD diagnosis, CERAD criteria</i> |
| 8) | NPADRDA | <i>AD diagnosis, ADRDA criteria</i> |
| 9) | NPOCRIT | <i>AD diagnosis, Other neuropathological criteria</i> |
| 10) | NPBRAAK | <i>Braak & Braak Neurofibrillary Stage</i> |
| 11) | NPNEUR | <i>Neuritic plaques</i> |
| 12) | NPDIFF | <i>Diffuse plaques</i> |
| 13) | NPVASC | <i>Ischemic, hemorrhagic or vascular pathology</i> |
| 14) | NPLINF | <i>Large artery cerebral infarcts present</i> |
| 15) | NPMICRO | <i>Cortical microinfarcts</i> |
| 16) | NPLAC | <i>Lacunes present</i> |
| 17) | NPHEM | <i>Hemorrhages present</i> |
| 18) | NPART | <i>Subcortical arteriosclerotic leukoencephalopathy present</i> |
| 19) | NPNEC | <i>Cortical laminar necrosis present</i> |
| 20) | NPSCCL | <i>Medial temporal lobe sclerosis present</i> |
| 21) | NPAVAS | <i>Atherosclerotic vascular pathology present</i> |
| 22) | NPARTER | <i>Arteriosclerosis vascular present</i> |
| 23) | NPAMY | <i>Amyloid angiopathy present</i> |
| 24) | NPOANG | <i>Other angiopathy present</i> |
| 25) | NPVOTH | <i>Other ischemic or vascular pathology present</i> |
| 26) | NPLEWY | <i>Lewy Body pathology</i> |
| 27) | NPLEWYCS | <i>Likelihood of DLB Clinical Syndrome due to DLB pathology</i> |
| 28) | NPPICK | <i>FTD, Pick's Disease</i> |
| 29) | NPCORT | <i>FTD, corticobasal degeneration</i> |
| 30) | NPPROG | <i>FTD, progressive supranuclear palsy</i> |
| 31) | NPFRONT | <i>FTD, frontotemporal dementia and Parkinsonism with tau-positive or argyrophilic inclusions</i> |
| 32) | NPTAU | <i>FTD, tauopathy, other</i> |
| 33) | NPFTD | <i>FTD with ubiquitin-positive (tau-negative) inclusions</i> |
| 34) | NPFTDNO | <i>FTD with no distinctive histopathology</i> |

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|-----|----------|---|
| 35) | NPFTDSPC | <i>FTD 'Not otherwise specified' present</i> |
| 36) | NPCJ | <i>Creutzfeldt-Jakob disease present</i> |
| 37) | NPPRION | <i>Other prion diseases present</i> |
| 38) | NPMAJOR | <i>Other major pathologic disorders present</i> |
| 39) | NPMPATH1 | <i>Major pathological disorder other #1, specified</i> |
| 40) | NPMPATH2 | <i>Major pathological disorder other #2, specified</i> |
| 41) | NPMPATH3 | <i>Major pathological disorder other #3, specified</i> |
| 42) | NPGENE | <i>Relevant family history information</i> |
| 43) | NPFHSPEC | <i>Family history, specify disorder</i> |
| 44) | NPAPOE | <i>Genetic variants or polymorphisms, Apolipoprotein-E</i> |
| 45) | NPTAUHAP | <i>Genetic variants or polymorphisms, Tau-haplotype</i> |
| 46) | NPPRNP | <i>Genetic variants or polymorphisms, PRNP codon 129</i> |
| 47) | NPCHROM | <i>Genetic or chromosomal abnormalities</i> |
| 48) | NPDNORM | <i>Normal brain (NC)</i> |
| 49) | NPDADP | <i>AD pathology present but insufficient for AD diagnosis</i> |
| 50) | NPDAD | <i>Alzheimer disease (AD)</i> |
| 51) | NPDLEWY | <i>Lewy body disease, with or without AD</i> |
| 52) | NPDVASC | <i>Vascular disease</i> |
| 53) | NPDFTLT | <i>Frontotemporal lobar degeneration (FTLD)</i> |
| 54) | NPDHIPP | <i>Hippocampal sclerosis</i> |
| 55) | NPDPRION | <i>Prion-associated disease</i> |
| 56) | NPDOTH1 | <i>Other primary and contributing pathologic diagnosis or feature #1</i> |
| 57) | NPDOTH1X | <i>Other primary and contributing pathologic diagnosis or feature #1, specify</i> |
| 58) | NPDOTH2 | <i>Other primary and contributing pathologic diagnosis or feature #2</i> |
| 59) | NPDOTH2X | <i>Other primary and contributing pathologic diagnosis or feature #2, specify</i> |
| 60) | NPDOTH3 | <i>Other primary and contributing pathologic diagnosis or feature #3</i> |
| 61) | NPDOTH3X | <i>Other primary and contributing pathologic diagnosis or feature #3, specify</i> |
| 62) | NPBRFRZN | <i>Banked frozen brain tissue</i> |
| 63) | NPBRFRM | <i>Formalin-fixed brain tissue</i> |
| 64) | NPBPARF | <i>Paraffin-embedded brain tissue</i> |
| 65) | NPCSFANT | <i>Postmortem CSF</i> |

1) Variable Name JHUANONID

Short Description Participant ID Anonymized by JHU

Source NA

Question Text NA

Time of Collection Baseline

Data Type Character

Allowable Codes JHU + 6 numbers

Missing OK If NA

Audit Findings NA

Comments None

2) Variable Name DODMOBL

Short Description Months from baseline visit to date of death

Source DERIVED

Question Text NA

Time of Collection Baseline and Follow-up

Data Type Numeric

Allowable Codes Min = 0
Max = 999

Missing OK If NA

Audit Findings NA

Comments Calculated as months from admit day to date of death as recorded in NP #5.

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| 3) | Variable Name | NPSEX |
| | Short Description | Gender |
| | Source | NP #3 |
| | Question Text | Gender |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Male 2 = Female |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|-----------|--------------------|--|
| 4) | Variable Name | NPDAGE |
| | Short Description | Age at death |
| | Source | NP #4 |
| | Question Text | Age at death |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | Min = 20 Max = 120 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 5) | Variable Name | NPGROSS |
| | Short Description | Gross or microscopic pathology |
| | Source | NP #6 |
| | Question Text | Does the brain have any gross or microscopic pathology (including any Alzheimer type pathology such as senile plaques and neurofibrillary tangles)? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 6) | Variable Name | NPNIT |
| | Short Description | AD diagnosis, NIA/Reagan Institute criteria |
| | Source | NP #7 |
| | Question Text | NIA/Reagan Institute neuropathological criteria used: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = High likelihood of dementia being due to Alzheimer's disease 2 = Intermediate likelihood of dementia being due to Alzheimer's disease 3 = Low likelihood of dementia being due to Alzheimer's disease 4 = Criteria not met 5 = Not done |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 7) | Variable Name | NPCERAD |
| | Short Description | AD diagnosis, CERAD criteria |
| | Source | NP #8 |
| | Question Text | CERAD neuropathological criteria used: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Definite Alzheimer's disease 2 = Probable Alzheimer's disease 3 = Possible Alzheimer's disease 4 = Criteria not met 5 = Not done |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 8) | Variable Name | NPADRDA |
| | Short Description | AD diagnosis, ADRDA criteria |
| | Source | NP #9 |
| | Question Text | ADRDA/Khachaturian neuropathological criteria used: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Alzheimer's disease 2 = Criteria not met 3 = Not done |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 9) | Variable Name | NPOCRIT |
| | Short Description | AD diagnosis, Other neuropathological criteria |
| | Source | NP #10 |
| | Question Text | Other or unspecified neuropathological criteria used(e.g., Tierney, etc.): |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Alzheimer's disease, unspecified 2 = Criteria not met 3 = Not done |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 10) | Variable Name | NPBRAAK |
| | Short Description | Braak & Braak Neurofibrillary Stage |
| | Source | NP #11 |
| | Question Text | Braak & Braak Neurofibrillary Stage |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Stage I 2 = Stage II 3 = Stage III 4 = Stage IV 5 = Stage V 6 = Stage VI 7 = Neurofibrillary degeneration not present 8 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 11) | Variable Name | NPNEUR |
| | Short Description | Neuritic plaques |
| | Source | NP #12 |
| | Question Text | Neuritic plaques (plaques with argyrophilic dystrophic neurites with or without dense amyloid cores). |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Frequent neuritic plaques 2 = Moderate neuritic plaques 3 = Sparse neuritic plaques 4 = No neuritic plaques 5 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 12) | Variable Name | NPDIFF |
| | Short Description | Diffuse plaques |
| | Source | NP #13 |
| | Question Text | Diffuse plaques (plaques with non-compact amyloid and no apparent dystrophic neurites). |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Frequent diffuse plaques 2 = Moderate diffuse plaques 3 = Sparse diffuse plaques 4 = No diffuse plaques 5 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 13) | Variable Name | NPVASC |
| | Short Description | Ischemic, hemorrhagic or vascular pathology |
| | Source | NP #14 |
| | Question Text | Is ischemic, hemorrhagic or vascular pathology present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 14) | Variable Name | NPLINF |
| | Short Description | Large artery cerebral infarcts present |
| | Source | NP #15 |
| | Question Text | Are one or more large artery cerebral infarcts present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 15) | Variable Name | NPMICRO |
| | Short Description | Cortical microinfarcts |
| | Source | NP #16 |
| | Question Text | Are one or more cortical microinfarcts (including 'granular atrophy') present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 16) | Variable Name | NPLAC |
| | Short Description | Lacunes present |
| | Source | NP #17 |
| | Question Text | Are one or more lacunes (small artery infarcts and/or hemorrhages) present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 17) | Variable Name | NPHEM |
| | Short Description | Hemorrhages present |
| | Source | NP #18 |
| | Question Text | Are single or multiple hemorrhages present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 18) | Variable Name | NPART |
| | Short Description | Subcortical arteriosclerotic leukoencephalopathy present |
| | Source | NP #19 |
| | Question Text | Is subcortical arteriosclerotic leukoencephalopathy present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 19) | Variable Name | NPNEC |
| | Short Description | Cortical laminar necrosis present |
| | Source | NP #20 |
| | Question Text | Is cortical laminar necrosis present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |
| 20) | Variable Name | NPSCS |
| | Short Description | Medial temporal lobe sclerosis present |
| | Source | NP #21 |
| | Question Text | Is medial temporal lobe sclerosis (including hippocampal sclerosis) present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 21) | Variable Name | NPAVAS |
| | Short Description | Atherosclerotic vascular pathology present |
| | Source | NP #22 |
| | Question Text | Is atherosclerotic vascular pathology (of the circle of Willis) present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = None 2 = Mild 3 = Moderate 4 = Severe 5 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 22) | Variable Name | NPARTER |
| | Short Description | Arteriosclerosis vascular present |
| | Source | NP #23 |
| | Question Text | Is arteriosclerosis vascular (small parenchymal arteriolar disease) present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = None 2 = Mild 3 = Moderate 4 = Severe 5 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 23) | Variable Name | NPAMY |
| | Short Description | Amyloid angiopathy present |
| | Source | NP #24 |
| | Question Text | Is amyloid angiopathy present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = None 2 = Mild 3 = Moderate 4 = Severe 5 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 24) | Variable Name | NPOANG |
| | Short Description | Other angiopathy present |
| | Source | NP #25 |
| | Question Text | Is another type of angiopathy (e.g., CADASIL or arteritis) present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 25) | Variable Name | NPVOTH |
| | Short Description | Other ischemic or vascular pathology present |
| | Source | NP #26 |
| | Question Text | Is there other pathology related to ischemic or vascular disease not previously specified present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|---|
| 26) | Variable Name | NPLEWY |
| | Short Description | Lewy Body pathology |
| | Source | NP #27 |
| | Question Text | Pathology is consistent with criteria of Consortium on Dementia with Lewy Bodies for: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Lewy body pathology, brainstem predominant type 2 = Lewy body pathology, intermediate or transitional limbic type 3 = Lewy body pathology, diffuse (neocortical) type 4 = Lewy body pathology, unspecified or not further assessed 5 = No Lewy bodies 6 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 27) | Variable Name | NPLEWYCS |
| | Short Description | Likelihood of DLB Clinical Syndrome due to DLB pathology |
| | Source | NP #28 |
| | Question Text | Likelihood that DLB Clinical Syndrome due to DLB Pathology |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Low 2 = Intermediate 3 = High 6 = N/A (not applicable) |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 28) | Variable Name | NPPICK |
| | Short Description | FTD, Pick's Disease |
| | Source | NP #29 |
| | Question Text | Pick's Disease |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 29) | Variable Name | NPCORT |
| | Short Description | FTD, corticobasal degeneration |
| | Source | NP #30 |
| | Question Text | Corticobasal degeneration |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 30) | Variable Name | NPPROG |
| | Short Description | FTD, progressive supranuclear palsy |
| | Source | NP #31 |
| | Question Text | Progressive supranuclear palsy |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 31) | Variable Name | NPFRONT |
| | Short Description | FTD, frontotemporal dementia and Parkinsonism with tau-positive or argyrophilic i |
| | Source | NP #32 |
| | Question Text | Frontotemporal dementia and Parkinsonism with tau-positive or argyrophilic inclusions: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 32) | Variable Name | NPTAU |
| | Short Description | FTD, tauopathy, other |
| | Source | NP #33 |
| | Question Text | Tauopathy, other (e.g., tangle-only dementia and argyrophilic grain dementia): |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|---|
| 33) | Variable Name | NPFTD |
| | Short Description | FTD with ubiquitin-positive (tau-negative) inclusions |
| | Source | NP #34 |
| | Question Text | FTD with ubiquitin-positive (tau-negative) inclusions: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = FTD with motor neuron disease 2 = FTD without motor neuron disease 3 = None present 4 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |
| 34) | Variable Name | NPFTDNO |
| | Short Description | FTD with no distinctive histopathology |
| | Source | NP #35 |
| | Question Text | Is there FTD with no distinctive histopathology (tau-negative, ubiquitin-negative, and no argyrophilic inclusions)? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 35) | Variable Name | NPFTDSPC |
| | Short Description | FTD 'Not otherwise specified' present |
| | Source | NP #36 |
| | Question Text | Was FTD 'Not otherwise specified' present (e.g., 'immunostaining for ubiquitin and tau not done')? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 36) | Variable Name | NPCJ |
| | Short Description | Creutzfeldt-Jakob disease present |
| | Source | NP #37 |
| | Question Text | Is Creutzfeldt-Jakob disease or variant CJD present? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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| 37) | Variable Name | NPPRION |
| | Short Description | Other prion diseases present |
| | Source | NP #38 |
| | Question Text | Are other prion diseases present (e.g., Gerstmann-Straussler syndrome)? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 38) | Variable Name | NPMAJOR |
| | Short Description | Other major pathologic disorders present |
| | Source | NP #39 |
| | Question Text | Are other major pathologic disorders present (not addressed by questions 7 through 38)? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No 3 = Not assessed |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

39) Variable Name NPMPATH1

Short Description Major pathological disorder other #1, specified

Source NP #40a.

Question Text Major Pathological disorders, Other Specify

Time of Collection Follow-Up

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%).

Missing OK If NP #39 NPMAJOR \neq 1 (Yes)

Audit Findings [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015)

No NIH phase audits.

Comments None

40) Variable Name NPMPATH2

Short Description Major pathological disorder other #2, specified

Source NP #40b.

Question Text Major Pathological disorders, Other Specify

Time of Collection Follow-Up

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%).

Missing OK If NP #39 NPMAJOR \neq 1 (Yes)

Audit Findings [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015)

No NIH phase audits.

Comments None

41) Variable Name NPMPATH3

Short Description Major pathological disorder other #3, specified

Source NP #40c.

Question Text Major Pathological disorders, Other Specify

Time of Collection Follow-Up

Data Type Character

Allowable Codes Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%).

Missing OK If NP #39 NPMAJOR \neq 1 (Yes)

Audit Findings [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015)

No NIH phase audits.

Comments None

42) Variable Name NPGENE

Short Description Relevant family history information

Source NP #41

Question Text Family history information relevant to neuropathologic diagnosis. Choose one of the following categories that most accurately describes the family information available.

Time of Collection Follow-Up

Data Type Numeric

Allowable Codes
1 = Family history of similar neurodegenerative disorder
2 = Family history of other (dissimilar) neurodegenerative disorder
3 = No family history of similar or dissimilar neurodegenerative disorder
4 = Family history of both similar or dissimilar neurodegenerative disorder

Unknown Code 9

Missing OK If NA

Audit Findings [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015)

No NIH phase audits.

Comments None

| | | |
|------------|--------------------|--|
| 43) | Variable Name | NPFHSPEC |
| | Short Description | Family history, specify disorder |
| | Source | NP #42 |
| | Question Text | Specify disorder |
| | Time of Collection | Follow-Up |
| | Data Type | Character |
| | Allowable Codes | Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%). |
| | Missing OK If | NP #41 NPGENE = 1, 3 or 9 |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 44) | Variable Name | NPAPOE |
| | Short Description | Genetic variants or polymorphisms, Apolipoprotein-E |
| | Source | NP #43 |
| | Question Text | Apolipoprotein-E |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = e3, e3 2 = e3, e4 3 = e3, e2 4 = e4, e4 5 = e4, e2 6 = e2, e2 |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 45) | Variable Name | NPTAUHAP |
| | Short Description | Genetic variants or polymorphisms, Tau-haplotype |
| | Source | NP #44 |
| | Question Text | Tau-haplotype: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = H1, H1 2 = H1, H2 3 = H2, H2 4 = Other polymorphism (e.g. A0) |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

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|------------|--------------------|--|
| 46) | Variable Name | NPPRNP |
| | Short Description | Genetic variants or polymorphisms, PRNP codon 129 |
| | Source | NP #45 |
| | Question Text | PRNP codon 129: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = M, M 2 = M, V 3 = V, V |
| | Unknown Code | 9 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

| | | |
|------------|--------------------|---|
| 47) | Variable Name | NPCHROM |
| | Short Description | Genetic or chromosomal abnormalities |
| | Source | NP #46 |
| | Question Text | Genetic or chromosomal abnormalities. Choose below the one known genetic or chromosomal abnormality that best describes the participant: |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = APP mutation 2 = PS1 mutation 3 = PS2 mutation 4 = Tau mutation 5 = α -Synuclein mutation 6 = Parkin mutation 7 = PRNP mutation 8 = Huntingtin mutation 9 = Notch 3 mutation (CADASIL) 10 = Other known genetic mutation (e.g., Abri, neuroserpin) 11 = Down syndrome 12 = Other chromosomal abnormality 13 = No known genetic or chromosomal abnormality 50 = Not assessed |
| | Unknown Code | 99 |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) |
| | | No NIH phase audits. |
| | Comments | None |

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| 48) | Variable Name | NPDNORM |
| | Short Description | Normal brain (NC) |
| | Source | NP #47a |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 49) | Variable Name | NPDADP |
| | Short Description | AD pathology present but insufficient for AD diagnosis |
| | Source | NP #47b |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 50) | Variable Name | NPDAD |
| | Short Description | Alzheimer disease (AD) |
| | Source | NP #47c |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 51) | Variable Name | NPDLEWY |
| | Short Description | Lewy body disease, with or without AD |
| | Source | NP #47d |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 52) | Variable Name | NPDVASC |
| | Short Description | Vascular disease |
| | Source | NP #47e |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 53) | Variable Name | NPDFTL |
| | Short Description | Frontotemporal lobar degeneration (FTLD) |
| | Source | NP #47f |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 54) | Variable Name | NPDHIPP |
| | Short Description | Hippocampal sclerosis |
| | Source | NP #47g |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 55) | Variable Name | NPDPRION |
| | Short Description | Prion-associated disease |
| | Source | NP #47h |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|---|
| 56) | Variable Name | NPDOTH1 |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #1 |
| | Source | NP #47i |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|--|
| 57) | Variable Name | NPDOTH1X |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #1, specify |
| | Source | NP #is |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? Other #1 specified. |
| | Time of Collection | Follow-Up |
| | Data Type | Character |
| | Allowable Codes | Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%). |
| | Missing OK If | NP #47i NPDOTH1 is blank |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

| | | |
|------------|--------------------|---|
| 58) | Variable Name | NPDOTH2 |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #2 |
| | Source | NP #47j |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|--|
| 59) | Variable Name | NPDOTH2X |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #2, specify |
| | Source | NP #47js |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? Other #2 specified. |
| | Time of Collection | Follow-Up |
| | Data Type | Character |
| | Allowable Codes | Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%). |
| | Missing OK If | NP #47j is blank |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

| | | |
|------------|--------------------|---|
| 60) | Variable Name | NPDOTH3 |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #3 |
| | Source | NP #47k |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Primary 2 = Contributing |
| | Missing OK If | Always OK |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | NP questions 47a through 47k have the same question text. Of these variables, only one may be marked "primary" (1), but any number may be marked as "contributing" (2). |

| | | |
|------------|--------------------|--|
| 61) | Variable Name | NPDOTH3X |
| | Short Description | Other primary and contributing pathologic diagnosis or feature #3, specify |
| | Source | NP #47ks |
| | Question Text | What are the primary and contributing pathologic diagnoses or features which you judge to be responsible for the participant's cognitive status? Other #3 specified. |
| | Time of Collection | Follow-Up |
| | Data Type | Character |
| | Allowable Codes | Any text or numbers but cannot use single quotes ('), double quotes (""), ampersands (&), or percentage signs (%). |
| | Missing OK If | NP #47k is blank |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) No NIH phase audits. |
| | Comments | None |

| | | |
|------------|--------------------|--|
| 62) | Variable Name | NPBRFRZN |
| | Short Description | Banked frozen brain tissue |
| | Source | NP #48 |
| | Question Text | Is banked frozen brain tissue accessible? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) |
| | Comments | None |

| | | |
|------------|--------------------|--|
| 63) | Variable Name | NPBRFRM |
| | Short Description | Formalin-fixed brain tissue |
| | Source | NP #49 |
| | Question Text | Is formalin-fixed brain tissue accessible? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) |
| | Comments | None |

| | | |
|------------|--------------------|--|
| 64) | Variable Name | NPBPAPF |
| | Short Description | Paraffin-embedded brain tissue |
| | Source | NP #50 |
| | Question Text | Are paraffin-embedded blocks of brain tissue accessible? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) |
| | Comments | None |

| | | |
|------------|--------------------|--|
| 65) | Variable Name | NPSCFANT |
| | Short Description | Postmortem CSF |
| | Source | NP #51 |
| | Question Text | Is banked postmortem cerebrospinal fluid (CSF) accessible? |
| | Time of Collection | Follow-Up |
| | Data Type | Numeric |
| | Allowable Codes | 1 = Yes 2 = No |
| | Missing OK If | NA |
| | Audit Findings | [JHU Audits]: NP form error rate = 0% (based on 7 forms as of NOV2015) |
| | Comments | None |