

**Codebook for the 2015 Linked Mortality File (LMF)**

**Restricted-Use Linked NCHS-Mortality NDI Data**

**Date Created: 05DEC2017**

**Number of Variables: 118**

| Variable Name | Variable (VAR) Label   | VAR Type | VAR Length | Range of Values       | Value Description   | Notes   |
|---------------|--|----------|------------|-----------------------|---|---|
| SURVEY        | Survey Name  | Char     | 16         |                       |   |   |
| PUBLICID      | The current file only includes PUBLICID, which was constructed with family serial number for all survey years. | Char     | 14         | ID                    |   | Researchers linking to SOA, LSOII and NHIS public use files (PUF) use PUBLICID. To merge the NHIS PUF with the LMF please see notes in the analytic considerations. |
| SEQN          | NHANES Respondent Sequence Number  | Num      | 5          | ID                    |   | Public use identifier assigned by NCHS. Researchers linking to NHEFS, NHANES II, NHANES III, and 1999-2010 NHANES should use SEQN.                                  |
| RESNUM        | Resident Record (Case) Number  | Num      | 6          | ID                    |   | Public use identifier assigned by NCHS. Researchers linking to the 2004 NNHS should use RESNUM.   |
| FACID         | 1997 NNHS - Patient ID Number  | Num      | 6          | ID                    |   | Public use identifier assigned by NCHS. Researchers linking to the 1997 NNHS should use FACID.  |
| CRID          | 1995 NNHS - Patient ID Number  | Num      | 6          | ID                    |   | Public use identifier assigned by NCHS. Researchers linking to the 1995 NNHS should use CRID.   |
| PATNUM        | 2007 NHHCS - Patient/Discharge Record (Case) Number  | Num      | 8          | ID                    |   | Public use identifier assigned by NCHS. Researchers linking to the 2007 NHHCS should use PATNUM.  |
| ADMDAY        | Day of Admission   | Num      | 3          | 1-31<br>99<br>.       | Day 1 - 31<br>99: Unavailable<br>.: N/A                     | Only applicable for: NNHS (1985, 1995, 1997, 2004)  |
| ADMMONTH      | Month of Admission   | Num      | 3          | 1<br>2<br>3<br>4<br>5 | 1: January<br>2: February<br>3: March<br>4: April<br>5: May | Only applicable for: NNHS (1985, 1995, 1997, 2004)  |

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| Variable Name | Variable (VAR) Label | VAR Type | VAR Length | Range of Values | Value Description | Notes  |
|---------------|----------------------|----------|------------|-----------------|-------------------|--|
|               |                      |          |            | 6               | 6: June           |  |
|               |                      |          |            | 7               | 7: July           |  |
|               |                      |          |            | 8               | 8: August         |  |
|               |                      |          |            | 9               | 9: September      |  |
|               |                      |          |            | 10              | 10: October       |  |
|               |                      |          |            | 11              | 11: November      |  |
|               |                      |          |            | 12              | 12: December      |  |
|               |                      |          |            | 99              | 99: Unavailable   |  |
|               |                      |          |            | .               | .: N/A            |  |
| ADMYEAR       | Year of Admission    | Num      | 4          | 1932-2004       | Year 1932 - 2004  | Only applicable for: NNHS (1985, 1995, 1997, 2004)   |
|               |                      |          |            | 9999            | 9999: Unavailable |  |
|               |                      |          |            | .               | .: N/A            |  |
| AGEDEATH      | Age at Death         | Num      | 3          |                 |                   | A blank value implies ineligible or assumed alive. Misreporting or discrepancies in reported age at interview or date of birth may result in values for age at death that are inconsistent with interview age. |
| AGEEXAM       | Age at Exam          | Num      | 3          |                 |                   | Only applicable for: NHEFS, NHANES II  |
| AGEHOMEX      | Age at Home Exam     | Num      | 3          |                 |                   | Only applicable for: NHANES III  |
| AGEINTV       | Age at Interview     | Num      | 3          |                 |                   | Only applicable for: SOA, LSOA II, NHIS (1985-2014), NNHS (1985, 1995, 1997, 2004)   |
| AGEMEC        | Age at MEC Exam      | Num      | 3          |                 |                   | Only applicable for: NHANES III, Continuous NHANES (1999-2014)   |

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|---------------|-------------------------------|----------|------------|-----------------|--|---|
| AGEPRALV      | Age When Last Presumed Alive  | Num      | 3          |                 |  | A blank value implies ineligible or assumed deceased. Misreporting or discrepancies in reported age at interview or date of birth may result in values for age when last presumed alive that are inconsistent with interview age. |
| AGESCREEN     | Age at Screener Interview     | Num      | 3          |                 |  | Only applicable for: NHANES III, Continuous NHANES (1999-2014)  |
| CAUSEAVL      | Cause of Death Data Available | Num      | 3          | 0               | 0: No  | Death certificate data is available only for cases where the variable MORTSTAT=1 and MORTSRCE_NDI = 1. Users should note that it is possible to have an NDI match but no cause of death data available.                           |
|               |                               |          |            | 1               | 1: Yes   |   |
|               |                               |          |            | .               | .: Assumed alive or ineligible for mortality follow-up |   |
| COND_1        | Entity Axis 1st Condition     | Char     | 7          |                 |  |   |
| COND_2        | Entity Axis 2nd Condition     | Char     | 7          |                 |  |   |
| COND_3        | Entity Axis 3rd Condition     | Char     | 7          |                 |  |   |
| COND_4        | Entity Axis 4th Condition     | Char     | 7          |                 |  |   |
| COND_5        | Entity Axis 5th Condition     | Char     | 7          |                 |  |   |
| COND_6        | Entity Axis 6th Condition     | Char     | 7          |                 |  |   |
| COND_7        | Entity Axis 7th Condition     | Char     | 7          |                 |  |   |
| COND_8        | Entity Axis 8th Condition     | Char     | 7          |                 |  |   |

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|---------------|----------------------------|----------|------------|-----------------|-------------------|--|
| COND_9        | Entity Axis 9th Condition  | Char     | 7          |                 |                   |  |
| COND_10       | Entity Axis 10th Condition | Char     | 7          |                 |                   |  |
| COND_11       | Entity Axis 11th Condition | Char     | 7          |                 |                   |  |
| COND_12       | Entity Axis 12th Condition | Char     | 7          |                 |                   |  |
| COND_13       | Entity Axis 13th Condition | Char     | 7          |                 |                   |  |
| COND_14       | Entity Axis 14th Condition | Char     | 7          |                 |                   |  |
| COND_15       | Entity Axis 15th Condition | Char     | 7          |                 |                   |  |
| COND_16       | Entity Axis 16th Condition | Char     | 7          |                 |                   |  |
| COND_17       | Entity Axis 17th Condition | Char     | 7          |                 |                   |  |
| COND_18       | Entity Axis 18th Condition | Char     | 7          |                 |                   |  |
| COND_19       | Entity Axis 19th Condition | Char     | 7          |                 |                   |  |
| COND_20       | Entity Axis 20th Condition | Char     | 7          |                 |                   |  |
| DISDAY        | Day of Discharge           | Num      | 3          | 1-31            | Day 1 - 31        | The 1985 NNHS documentation indicates that sampled discharged residents included residents who had been discharged dead or alive from the facility during the 365-day period preceding the day of the interview date. However, there are survey discharged dates that are prior to this 365-period. Year of discharge for 1997 NNHS ranges from 1996 to 1997 because sampled discharged residents included residents who had been discharged dead or alive from the facility as early as October 1996. |

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|---------------|----------------------|----------|------------|-----------------|---------------------|--|
|               |                      |          |            | 99              | 99: Unavailable     |  |
|               |                      |          |            | .               | .: Current Resident |  |
| DISMONTH      | Month of Discharge   | Num      | 3          | 1               | 1: January          | The 1985 NNHS documentation indicates that sampled discharged residents included residents who had been discharged dead or alive from the facility during the 365-day period preceding the day of the interview date. However, there are survey discharged dates that are prior to this 365-period. Year of discharge for 1997 NNHS ranges from 1996 to 1997 because sampled discharged residents included residents who had been discharged dead or alive from the facility as early as October 1996. |
|               |                      |          |            | 2               | 2: February         |  |
|               |                      |          |            | 3               | 3: March            |  |
|               |                      |          |            | 4               | 4: April            |  |
|               |                      |          |            | 5               | 5: May              |  |
|               |                      |          |            | 6               | 6: June             |  |
|               |                      |          |            | 7               | 7: July             |  |
|               |                      |          |            | 8               | 8: August           |  |
|               |                      |          |            | 9               | 9: September        |  |
|               |                      |          |            | 10              | 10: October         |  |
|               |                      |          |            | 11              | 11: November        |  |
|               |                      |          |            | 12              | 12: December        |  |
|               |                      |          |            | 99              | 99: Unavailable     |  |
|               |                      |          |            | .               | .: Current Resident |  |

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|---------------|----------------------|----------|------------|-----------------|---------------------|--|
| DISYEAR       | Year of Discharge    | Num      | 4          | 1983-1997       | Year 1983 - 1997    | The 1985 NNHS documentation indicates that sampled discharged residents included residents who had been discharged dead or alive from the facility during the 365-day period preceding the day of the interview date. However, there are survey discharged dates that are prior to this 365-period. Year of discharge for 1997 NNHS ranges from 1996 to 1997 because sampled discharged residents included residents who had been discharged dead or alive from the facility as early as October 1996. |
|               |                      |          |            | 9999            | 9999: Unavailable   |  |
|               |                      |          |            | .               | .: Current Resident |  |
| DOBDAY        | Day of Birth         | Num      | 3          | 1-31            | Day 1 - 31          |  |
|               |                      |          |            | 99              | 99: Unavailable     |  |
| DOBMONTH      | Month of Birth       | Num      | 3          | 1               | 1: January          |  |
|               |                      |          |            | 2               | 2: February         |  |
|               |                      |          |            | 3               | 3: March            |  |
|               |                      |          |            | 4               | 4: April            |  |
|               |                      |          |            | 5               | 5: May              |  |
|               |                      |          |            | 6               | 6: June             |  |
|               |                      |          |            | 7               | 7: July             |  |
|               |                      |          |            | 8               | 8: August           |  |
|               |                      |          |            | 9               | 9: September        |  |
|               |                      |          |            | 10              | 10: October         |  |
|               |                      |          |            | 11              | 11: November        |  |
|               |                      |          |            | 12              | 12: December        |  |
|               |                      |          |            | 99              | 99: Unavailable     |  |
| DOBYEAR       | Year of Birth        | Num      | 4          | 1876-2014       | Year 1876 - 2014    |  |

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|---------------|----------------------|----------|------------|-----------------|--------------------------------|---------------------------------------|
|               |                      |          |            | 9999            | 9999: Unavailable              |                                       |
| DODDAY        | Day of Death         | Num      | 3          | 1-31            | Day 1 - 31                     |                                       |
|               |                      |          |            | 99              | 99: Unavailable                |                                       |
|               |                      |          |            | .               | .: Ineligible or assumed alive |                                       |
| DODMONTH      | Month of Death       | Num      | 3          | 1               | 1: January                     |                                       |
|               |                      |          |            | 2               | 2: February                    |                                       |
|               |                      |          |            | 3               | 3: March                       |                                       |
|               |                      |          |            | 4               | 4: April                       |                                       |
|               |                      |          |            | 5               | 5: May                         |                                       |
|               |                      |          |            | 6               | 6: June                        |                                       |
|               |                      |          |            | 7               | 7: July                        |                                       |
|               |                      |          |            | 8               | 8: August                      |                                       |
|               |                      |          |            | 9               | 9: September                   |                                       |
|               |                      |          |            | 10              | 10: October                    |                                       |
|               |                      |          |            | 11              | 11: November                   |                                       |
|               |                      |          |            | 12              | 12: December                   |                                       |
|               |                      |          |            | 99              | 99: Unavailable                |                                       |
|               |                      |          |            | .               | .: Ineligible or assumed alive |                                       |
| DODYEAR       | Year of Death        | Num      | 4          | 1971-2015       | Year 1971 - 2015               |                                       |
|               |                      |          |            | .               | .: Ineligible or assumed alive |                                       |
| DOEDAY        | Day of Exam          | Num      | 3          | 1-31            | Day 1 - 31                     | Only applicable for: NHEFS, NHANES II |

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|---------------|--|----------|------------|-----------------|-------------------|--|
|               |  |          |            | .               | .: No Exam        |  |
| DOEMONTH      | Month of Exam                              | Num      | 3          | 1               | 1: January        | Only applicable for: NHEFS, NHANES II  |
|               |  |          |            | 2               | 2: February       |  |
|               |  |          |            | 3               | 3: March          |  |
|               |  |          |            | 4               | 4: April          |  |
|               |  |          |            | 5               | 5: May            |  |
|               |  |          |            | 6               | 6: June           |  |
|               |  |          |            | 7               | 7: July           |  |
|               |  |          |            | 8               | 8: August         |  |
|               |  |          |            | 9               | 9: September      |  |
|               |  |          |            | 10              | 10: October       |  |
|               |  |          |            | 11              | 11: November      |  |
|               |  |          |            | 12              | 12: December      |  |
|               |  |          |            | .               | .: No Exam        |  |
| DOEYEAR       | Year of Exam                               | Num      | 4          | 1971-1980       | Year 1971 - 1980  | Only applicable for: NHEFS, NHANES II  |
|               |  |          |            | .               | .: No Exam        |  |
| ELIGSTAT      | Eligibility Status for Mortality Follow-up | Num      | 3          | 1               | 1: Eligible       | Survey participants are defined as ineligible for mortality linkage if they had insufficient identifying data to create a National Death Index submission record. Please note that all survey participants are included on the linked mortality files regardless of linkage eligibility. |
|               |  |          |            | 3               | 3: Ineligible     |  |
| HMEMONTH      | Month of Home Exam                         | Num      | 3          | 1               | 1: January        | Only applicable for: NHANES III  |
|               |  |          |            | 2               | 2: February       |  |

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|---------------|----------------------|----------|------------|-----------------|-------------------|--|
|               |                      |          |            | 3               | 3: March          |  |
|               |                      |          |            | 4               | 4: April          |  |
|               |                      |          |            | 5               | 5: May            |  |
|               |                      |          |            | 6               | 6: June           |  |
|               |                      |          |            | 7               | 7: July           |  |
|               |                      |          |            | 8               | 8: August         |  |
|               |                      |          |            | 9               | 9: September      |  |
|               |                      |          |            | 10              | 10: October       |  |
|               |                      |          |            | 11              | 11: November      |  |
|               |                      |          |            | 12              | 12: December      |  |
|               |                      |          |            | .               | .: No Home Exam   |  |
| HOMEXDAY      | Day of Home Exam     | Num      | 3          | 1-31            | Day 1 - 31        | Only applicable for: NHANES III  |
|               |                      |          |            | .               | .: No Home Exam   |  |
| HOMEXYEAR     | Year of Home Exam    | Num      | 4          | 1988-1994       | Year 1988 - 1994  | Only applicable for: NHANES III  |
|               |                      |          |            | .               | .: No Home Exam   |  |
| INTVDAY       | Day of Interview     | Num      | 3          | 1-31            | Day 1 - 31        | Only applicable for: SOA, LSOA II, NHIS (1985-2014), NNHS (1985, 1995, 1997, 2004) |
|               |                      |          |            | 99              | 99: Unavailable   |  |
|               |                      |          |            | .               | .: No Interview   |  |
| INTVMONTH     | Month of Interview   | Num      | 3          | 1               | 1: January        | Only applicable for: SOA, LSOA II, NHIS (1985-2014), NNHS (1985, 1995, 1997, 2004) |
|               |                      |          |            | 2               | 2: February       |  |
|               |                      |          |            | 3               | 3: March          |  |

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|---------------|----------------------|----------|------------|-----------------|-------------------|--|
|               |                      |          |            | 4               | 4: April          |  |
|               |                      |          |            | 5               | 5: May            |  |
|               |                      |          |            | 6               | 6: June           |  |
|               |                      |          |            | 7               | 7: July           |  |
|               |                      |          |            | 8               | 8: August         |  |
|               |                      |          |            | 9               | 9: September      |  |
|               |                      |          |            | 10              | 10: October       |  |
|               |                      |          |            | 11              | 11: November      |  |
|               |                      |          |            | 12              | 12: December      |  |
|               |                      |          |            | 99              | 99: Unavailable   |  |
|               |                      |          |            | .               | .: No Interview   |  |
|               |                      |          |            |                 |                   |  |
| INTVYEAR      | Year of Interview    | Num      | 4          | 1984-2015       | Year 1984 - 2015  | Only applicable for: SOA, LSOA II, NHIS (1985-2014), NNHS (1985, 1995, 1997, 2004) |
|               |                      |          |            | .               | .: No Interview   |  |
|               |                      |          |            |                 |                   |  |
| MECDAY        | Day of MEC Exam      | Num      | 3          | 1-31            | Day 1 - 31        | Only applicable for: NHANES III, Continuous NHANES (1999-2014)                     |
|               |                      |          |            | .               | .: No MEC Exam    |  |
|               |                      |          |            |                 |                   |  |
| MECMONTH      | Month of MEC Exam    | Num      | 3          | 1               | 1: January        | Only applicable for: NHANES III, Continuous NHANES (1999-2014)                     |
|               |                      |          |            | 2               | 2: February       |  |
|               |                      |          |            | 3               | 3: March          |  |
|               |                      |          |            | 4               | 4: April          |  |
|               |                      |          |            | 5               | 5: May            |  |
|               |                      |          |            | 6               | 6: June           |  |

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| Variable Name | Variable (VAR) Label                      | VAR Type | VAR Length | Range of Values | Value Description   | Notes   |
|---------------|---|----------|------------|-----------------|---|---|
|               |   |          |            | 7               | 7: July   |   |
|               |   |          |            | 8               | 8: August   |   |
|               |   |          |            | 9               | 9: September  |   |
|               |   |          |            | 10              | 10: October   |   |
|               |   |          |            | 11              | 11: November  |   |
|               |   |          |            | 12              | 12: December  |   |
|               |   |          |            | .               | .: No MEC Exam  |   |
| MECYEAR       | Year of MEC Exam                          | Num      | 4          | 1988-2015       | Year 1988 - 2015  | Only applicable for: NHANES III, Continuous NHANES (1999-2014)  |
|               |   |          |            | .               | .: No MEC Exam  |   |
| MORTSRCE_CMS  | Mortality Source: CMS Information         | Num      | 3          | 1               | 1: Mortality status obtained from the CMS information                 | A code=1 indicates that mortality status was obtained from the Centers for Medicare and Medicaid Services (CMS).  |
|               |   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or under age 18 |   |
| MORTSRCE_DC   | Mortality Source: Death Certificate Match | Num      | 3          | 1               | 1: Mortality status obtained from a death certificate                 | Variable is available for NHEFS, NHANES II, and NHANES III. MORTSRCE_DC = 1 indicates that mortality status was obtained from a death certificate. Death certificates may be reviewed to compare information provided on the death certificate with data collected from NHEFS, NHANES II, or NHANES III survey records in order to assist NCHS in determining if a potential National Death Index match record correctly matches the NCHS survey participant. |
|               |   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or under age 18 |   |

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|---------------|-----------------------------------|----------|------------|-----------------|---|--|
| MORTSRCE_DCL  | Mortality Source: Data Collection | Num      | 3          | 1               | 1: Death information obtained from a proxy decedent interview                 | Variable is available for LSOA II, NHEFS, NHANES II, NHANES III, NHHCS 2007, NNHS 1985, and NNHS 1997. For NHEFS, MORTSRCE_DCL = 1 indicates that death information was obtained from a proxy decedent interview. For NNHS 1997, a code=1 indicates that death information was obtained during the NNHS survey period for Discharged Residents. Analysts should note that there are records on the 1997 NNHS public-use file indicating deceased status but were ineligible for NDI matching. On the Restricted-use Linked Mortality File, these records are classified as ineli |
|               |                                   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or under age 18         |  |
| MORTSRCE_NDI  | Mortality Source: NDI Match       | Num      | 3          | 1               | 1: Mortality status ascertained through a probabilistic match to a NDI record | A code=1 indicates that mortality status was ascertained through a probabilistic match to a National Death Index (NDI) record.   |
|               |                                   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or under age 18         |  |
| MORTSRCE_SSA  | Mortality Source: SSA Information | Num      | 3          | 1               | 1: Yes, Mortality status obtained from the Death Master File or SSA           | A code=1 indicates that mortality status was obtained from the Death Master File or Numident file from the Social Security Administration (SSA).   |
|               |                                   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or under age 18         |  |
| MORTSTAT      | Final Mortality Status            | Num      | 3          | 0               | 0: Assumed alive  | The MORTSTAT variable is NCHS's final determination of vital status and should be used as an outcome variable and to calculate survival. Each survey participant who is eligible for mortality follow-up is assigned a vital status code (0 = assumed alive; 1 = assumed deceased).  |
|               |                                   |          |            | 1               | 1: Assumed deceased   |  |
|               |                                   |          |            | .               | .: Ineligible   |  |

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| Variable Name | Variable (VAR) Label                 | VAR Type | VAR Length | Range of Values | Value Description                                   | Notes                                    |
|---------------|--------------------------------------|----------|------------|-----------------|---|--|
| NOKDAY        | Day of NOK (Next-of-Kin) Interview   | Num      | 3          | 1-31            | Day 1 - 31  | Only applicable for: NNHS 1985 follow up |
|               |                                      |          |            | .               | .: Ineligible for NOK or NOK interview not obtained |  |
| NOKMONTH      | Month of NOK (Next-of-Kin) Interview | Num      | 3          | 1               | 1: January  | Only applicable for: NNHS 1985 follow up |
|               |                                      |          |            | 2               | 2: February   |  |
|               |                                      |          |            | 3               | 3: March  |  |
|               |                                      |          |            | 5               | 5: May  |  |
|               |                                      |          |            | 6               | 6: June   |  |
|               |                                      |          |            | 7               | 7: July   |  |
|               |                                      |          |            | 8               | 8: August   |  |
|               |                                      |          |            | 9               | 9: September  |  |
|               |                                      |          |            | 10              | 10: October   |  |
|               |                                      |          |            | 11              | 11: November  |  |
|               |                                      |          |            | 12              | 12: December  |  |
|               |                                      |          |            | .               | .: Ineligible for NOK or NOK interview not obtained |  |
| NOKYEAR       | Year of NOK (Next-of-Kin) Interview  | Num      | 4          | 1984-1986       | Year 1984 - 1986                                    | Only applicable for: NNHS 1985 follow up |
|               |                                      |          |            | .               | .: Ineligible for NOK or NOK interview not obtained |  |
| NUMENTAX      | Number of Entity Axis Conditions     | Num      | 3          | 0-20            | Code range 00 - 20                                  |  |
|               |                                      |          |            | 21-171          | Code range 21 - 171                                 |  |
|               |                                      |          |            | .               | .: Cause of death code not available                |  |

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| Variable Name | Variable (VAR) Label             | VAR Type | VAR Length | Range of Values | Value Description                   | Notes |
|---------------|----------------------------------|----------|------------|-----------------|-------------------------------------|-------|
| NUMRAXCN      | Number of Record Axis Conditions | Num      | 3          | 0-20            | Code range 00 - 20                  |       |
|               |                                  |          |            | .               | ∴ Cause of death code not available |       |
| RCOND_1       | Record Axis 1st Condition        | Char     | 5          |                 |                                     |       |
| RCOND_2       | Record Axis 2nd Condition        | Char     | 5          |                 |                                     |       |
| RCOND_3       | Record Axis 3rd Condition        | Char     | 5          |                 |                                     |       |
| RCOND_4       | Record Axis 4th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_5       | Record Axis 5th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_6       | Record Axis 6th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_7       | Record Axis 7th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_8       | Record Axis 8th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_9       | Record Axis 9th Condition        | Char     | 5          |                 |                                     |       |
| RCOND_10      | Record Axis 10th Condition       | Char     | 5          |                 |                                     |       |
| RCOND_11      | Record Axis 11th Condition       | Char     | 5          |                 |                                     |       |
| RCOND_12      | Record Axis 12th Condition       | Char     | 5          |                 |                                     |       |
| RCOND_13      | Record Axis 13th Condition       | Char     | 5          |                 |                                     |       |

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| Variable Name | Variable (VAR) Label  | VAR Type | VAR Length | Range of Values | Value Description | Notes  |
|---------------|---|----------|------------|-----------------|-------------------|--|
| RCOND_14      | Record Axis 14th Condition  | Char     | 5          |                 |                   |  |
| RCOND_15      | Record Axis 15th Condition  | Char     | 5          |                 |                   |  |
| RCOND_16      | Record Axis 16th Condition  | Char     | 5          |                 |                   |  |
| RCOND_17      | Record Axis 17th Condition  | Char     | 5          |                 |                   |  |
| RCOND_18      | Record Axis 18th Condition  | Char     | 5          |                 |                   |  |
| RCOND_19      | Record Axis 19th Condition  | Char     | 5          |                 |                   |  |
| RCOND_20      | Record Axis 20th Condition  | Char     | 5          |                 |                   |  |
| WGT_NEW       | Weight Adjusted for Ineligible Respondents - Person-level Sample Weight | Num      | 8          |                 |                   | Only for 1987-2015 NHIS: Values for WGT_NEW reflect the eligibility adjusted Person-level Sample Weights created to account for those ineligible for linkage to the NDI. For the 1985 and 1986 NHIS Linked Mortality Files, there are no eligibility adjusted sample weights and WGT_NEW is left blank. For NHIS 1985 and 1986 NCHS recommends using WTFA from the public-use files. WGT_NEW is not available for SOA or LSOA II.  |
| SA_WGT_NEW    | Weight Adjusted for Ineligible Respondents - Sample Adult Sample Weight | Num      | 8          |                 |                   | Only for 1997-2015 NHIS: Values for SA_WGT_NEW reflect the eligibility adjusted Sample Adult Sample Weight created to account for those ineligible for linkage to the NDI. Blank values represent those ineligible or not a sample adult. The Sample Adult Sample Weight is not applicable for the 1987-1996 NHIS analyses and is therefore left blank. NCHS initiated a redesign of the NHIS questionnaire that was implemented in 1997. The Sample Adult File does not exist prior to the 1997 NHIS. SA_WGT_NEW is not available for SOA or LSOA II. |

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Number of Variables: 118

| Variable Name | Variable (VAR) Label  | VAR Type | VAR Length | Range of Values | Value Description        | Notes  |
|---------------|---|----------|------------|-----------------|--------------------------|--|
| SC_WGT_NEW    | Weight Adjusted for Ineligible Respondents - Sample Child Sample Weight | Num      | 8          |                 |                          | Only for 1997-2015 NHIS: Values for SC_WGT_NEW reflect the eligibility adjusted Sample Child Sample Weight created to account for those ineligible for linkage to the NDI. Blank values represent those ineligible or not a sample child. The Sample Child Sample Weight is not applicable for the 1987-1996 NHIS analyses. NCHS initiated a redesign of the NHIS questionnaire that was implemented in 1997. The Sample Child File does not exist prior to the 1997 NHIS. SC_WGT_NEW is not available for SOA or LSOA II. |
| SCRMONTH      | Month of Screener Interview   | Num      | 3          | 1               | 1: January               | Only applicable for: NHANES III, Continuous NHANES (1999-2014)   |
|               |   |          |            | 2               | 2: February              |  |
|               |   |          |            | 3               | 3: March                 |  |
|               |   |          |            | 4               | 4: April                 |  |
|               |   |          |            | 5               | 5: May                   |  |
|               |   |          |            | 6               | 6: June                  |  |
|               |   |          |            | 7               | 7: July                  |  |
|               |   |          |            | 8               | 8: August                |  |
|               |   |          |            | 9               | 9: September             |  |
|               |   |          |            | 10              | 10: October              |  |
|               |   |          |            | 11              | 11: November             |  |
|               |   |          |            | 12              | 12: December             |  |
|               |   |          |            | .               | .: No Screener Interview |  |
| SCRNDAY       | Day of Screener Interview   | Num      | 3          | 1-31            | Day 1 - 31               | Only applicable for: NHANES III, Continuous NHANES (1999-2014)   |
|               |   |          |            | .               | .: No Screener Interview |  |

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Number of Variables: 118

| Variable Name | Variable (VAR) Label  | VAR Type | VAR Length | Range of Values | Value Description   | Notes   |
|---------------|---|----------|------------|-----------------|---|---|
| SCRNYEAR      | Year of Screener Interview  | Num      | 4          | 1988-2015       |   | Only applicable for: NHANES III, Continuous NHANES (1999-2014)  |
| UCOD_113      | ICD-10 Underlying Cause of Death 113 Groups Recode (all years)              | Char     | 3          | 001-135         | Code range 001 - 135  | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a> |
|               |   |          |            |                 | Blank: Cause of death data not available                      |   |
| UCOD_282      | ICD-9 Underlying Cause of Death 282 Groups Recode (available up to 1998)    | Char     | 5          | 00300-35800     | Code range 00300 - 35800                                      | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a> |
|               |   |          |            |                 | Blank: Cause of death data not available or death after 1998  |   |
| UCOD_34       | ICD-9 Underlying Cause of Death 34 Groups Recode (available up to 1998)     | Char     | 3          | 010-370         | Code range 010 - 370  | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a> |
|               |   |          |            |                 | Blank: Cause of death data not available or death after 1998  |   |
| UCOD_358      | ICD-10 Underlying Cause of Death 358 Groups Recode (available 1999 forward) | Char     | 3          | 001-456         | Code range 001 - 456  | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a> |
|               |   |          |            |                 | Blank: Cause of death data not available or death before 1999 |   |
| UCOD_39       | ICD-10 Underlying Cause of Death 39 Groups Recode (available 1999 forward)  | Char     | 3          | 001-042         | Code range 001 - 042  | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a> |
|               |   |          |            |                 | Blank: Cause of death data not available or death before 1999 |   |

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Number of Variables: 118

| Variable Name | Variable (VAR) Label  | VAR Type | VAR Length | Range of Values | Value Description  | Notes   |
|---------------|---|----------|------------|-----------------|--|---|
| UCOD_72       | ICD-9 Underlying Cause of Death 72 Groups Recode (available up to 1998) | Char     | 3          | 010-840         | Code range 010 - 840   | See Underlying and Multiple Causes: <a href="https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf">https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf</a>   |
|               |   |          |            |                 | Blank: Cause of death data not available or death after 1998 |   |
| ICD_10REV     | ICD-10 Underlying Cause of Death (available 1999 forward)               | Char     | 4          |                 |  | The underlying cause of death code is coded according to the 10th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-10) for respondent deaths occurring between 1999 and 2015. The variable ICD_10REV is a four position, left-justified character variable with an alpha character in the first position and an implied decimal point after the third position. For those ICD-10 causes that do not have a 3rd digit, the 4th position of ICD_10REV is blank. |
| ICD_9REV      | ICD-9 Underlying Cause of Death (available up to 1998)                  | Char     | 4          |                 |  | The underlying cause of death code is coded according to the 9th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-9) for respondent deaths occurring through 1998. The variable ICD_9REV is a four position, left-justified character variable with an implied decimal point after the third position. For those ICD-9 causes that do not have a 4th digit, the 4th position of ICD_9REV is blank.  |
| SURVEYID      | The number of years post NNHS 1985 when the interview was completed     | Num      | 3          | 1               | 1985 NNHS Baseline Survey                                    | NNHS 1985 follow up   |
|               |   |          |            | 2               | Next-of-Kin Survey Interview                                 |   |
|               |   |          |            | 3               | Wave I Followup Interview                                    |   |
|               |   |          |            | 4               | Wave II Followup Interview                                   |   |
|               |   |          |            | 5               | Wave III Followup Interview                                  |   |
|               |   |          |            | .               | ∴ N/A  |   |
| W1DAY         | Day of NNHSF Wave I Interview   | Num      | 3          | 1-31            | Day 1 - 31   | Only applicable for: NNHS 1985 follow up  |

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Number of Variables: 118

| Variable Name | Variable (VAR) Label             | VAR Type | VAR Length | Range of Values | Value Description   | Notes                                    |
|---------------|----------------------------------|----------|------------|-----------------|---|--|
|               |                                  |          |            | .               | .: Ineligible for Wave I or Wave I interview not obtained   |  |
| W1MONTH       | Month of NNHSF Wave I Interview  | Num      | 3          | 8               | 8: August   | Only applicable for: NNHS 1985 follow up |
|               |                                  |          |            | 9               | 9: September  |  |
|               |                                  |          |            | 10              | 10: October   |  |
|               |                                  |          |            | 11              | 11: November  |  |
|               |                                  |          |            | 12              | 12: December  |  |
|               |                                  |          |            | .               | .: Ineligible for Wave I or Wave I interview not obtained   |  |
| W1YEAR        | Year of NNHSF Wave I Interview   | Num      | 4          | 1987            | Year 1987   | Only applicable for: NNHS 1985 follow up |
|               |                                  |          |            | .               | .: Ineligible for Wave I or Wave I interview not obtained   |  |
| W2DAY         | Day of NNHSF Wave II Interview   | Num      | 3          | 1-31            | Day 1 - 31  | Only applicable for: NNHS 1985 follow up |
|               |                                  |          |            | .               | .: Ineligible for Wave II or Wave II interview not obtained |  |
| W2MONTH       | Month of NNHSF Wave II Interview | Num      | 3          | 7               | 7: July   | Only applicable for: NNHS 1985 follow up |
|               |                                  |          |            | 8               | 8: August   |  |
|               |                                  |          |            | 9               | 9: September  |  |
|               |                                  |          |            | 11              | 11: November  |  |
|               |                                  |          |            | .               | .: Ineligible for Wave II or Wave II interview not obtained |  |

## Restricted-Use Linked NCHS-Mortality NDI Data

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Number of Variables: 118

| Variable Name | Variable (VAR) Label                              | VAR Type | VAR Length | Range of Values | Value Description  | Notes                                    |
|---------------|---|----------|------------|-----------------|--|--|
| W2YEAR        | Year of NNHSF Wave II Interview                   | Num      | 4          | 1988            | Year 1988  | Only applicable for: NNHS 1985 follow up |
|               |   |          |            | .               | .: Ineligible for Wave II or Wave II interview not obtained                  |  |
| W3DAY         | Day of NNHSF Wave III Interview                   | Num      | 3          | 1-31            | Day 1 - 31   | Only applicable for: NNHS 1985 follow up |
|               |   |          |            | .               | .: Ineligible for Wave III or Wave III interview not obtained                |  |
| W3MONTH       | Month of NNHSF Wave III Interview                 | Num      | 3          | 2               | 2: February  | Only applicable for: NNHS 1985 follow up |
|               |   |          |            | 3               | 3: March   |  |
|               |   |          |            | 4               | 4: April   |  |
|               |   |          |            | 6               | 6: June  |  |
|               |   |          |            | 7               | 7: July  |  |
|               |   |          |            | .               | .: Ineligible for Wave III or Wave III interview not obtained                |  |
| W3YEAR        | Year of NNHSF Wave III Interview                  | Num      | 4          | 1990            | Year 1990  | Only applicable for: NNHS 1985 follow up |
|               |   |          |            | .               | .: Ineligible for Wave III or Wave III interview not obtained                |  |
| DIABETES      | Diabetes Flag from Multiple Cause of Death (MCOD) | Num      | 3          | 0               | 0: No  |  |
|               |   |          |            | 1               | 1: Yes – Condition listed as a multiple cause of death (MCOD)                |  |
|               |   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or MCODE not available |  |

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Number of Variables: 118

| Variable Name | Variable (VAR) Label                                  | VAR Type | VAR Length | Range of Values | Value Description   | Notes |
|---------------|---|----------|------------|-----------------|---|-------|
| HIPFRACT      | Hip Fracture Flag from Multiple Cause of Death (MCOD) | Num      | 3          | 0               | 0: No   |       |
|               |   |          |            | 1               | 1: Yes – Condition listed as a multiple cause of death (MCOD)               |       |
|               |   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or MCOD not available |       |
| HYPERTEN      | Hypertension Flag from Multiple Cause of Death (MCOD) | Num      | 3          | 0               | 0: No   |       |
|               |   |          |            | 1               | 1: Yes – Condition listed as a multiple cause of death (MCOD)               |       |
|               |   |          |            | .               | .: Assumed alive, ineligible for mortality follow-up, or MCOD not available |       |