

**National Health and Nutrition Examination Survey (NHANES 1999-2004)
Linked Mortality Files**

Restricted-use File Layout

<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>SEQN</i>	numeric	NHANES Respondent Sequence Number – See Detailed Notes
<i>ELIGSTAT</i>	numeric	Eligibility Status for Mortality Follow-up – See Detailed Notes
		1 Eligible
		3 Ineligible
Death Information		
<i>MORTSTAT</i>	numeric	Final Mortality Status – See Detailed Notes
		0 Assumed alive
		1 Assumed deceased
		Blank Ineligible
<i>MORTSRCE_NDI</i>	numeric	Mortality Source: NDI Match – See Detailed Notes
		0 No
		1 Yes
		Blank Ineligible or assumed alive
<i>MORTSRCE_SSA</i>	numeric	Mortality Source: SSA Information – See Detailed Notes
		0 No
		1 Yes
		Blank Ineligible or assumed alive
<i>DODMONTH</i>	numeric	Month of Death
		01 January
		02 February
		03 March
		04 April
		05 May
		06 June
		07 July
		08 August
		09 September
		10 October
		11 November
		12 December
		Blank Ineligible or assumed alive

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>DODDAY</i>	numeric	Day of Death 01 - 31 Day Blank Ineligible or assumed alive
<i>DODYEAR</i>	numeric	Year of Death 1999 - 2006 Year Blank Ineligible or assumed alive
<i>AGEDEATH</i>	numeric	Age at Death – See Detailed Notes 0 - 105 Age in years Blank Ineligible or assumed alive
<i>AGEPRALV</i>	numeric	Age When Last Presumed Alive (as of December 31, 2006) See Detailed Notes 2 - 109 Age in years Blank Ineligible or assumed deceased
Death Certificate Data		
<i>CAUSEAVL</i>	numeric	Cause of Death Data Available – See Detailed Notes 0 No 1 Yes Blank Ineligible or assumed alive
<i>ICD_10REV</i>	char	ICD-10 Underlying Cause of Death (1999-2006) See Underlying and Multiple Causes A00 – Y89.9 Code range Blank Cause of death data not available
<i>UCOD_358</i>	char	ICD-10 (1999-2006) Underlying Cause of Death 358 Groups Recode See Underlying and Multiple Causes 001 – 456 Code range Blank Cause of death data not available

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>UCOD_39</i>	char	ICD-10 (1999-2006) Underlying Cause of Death 39 Groups Recode See Underlying and Multiple Causes
		001 – 042 Code range Blank Cause of death data not available
<i>UCOD_113</i>	char	ICD-10 (1999-2006) Underlying Cause of Death 113 Groups Recode See Underlying and Multiple Causes
		001 – 135 Code range Blank Cause of death data not available

Multiple Cause of Death Conditions

<i>NUMENTAX</i>	numeric	Number of Entity Axis Conditions See Underlying and Multiple Causes
		00 – 20 Code range Blank Cause of death code not available
<i>COND_1</i>	char	Entity Axis 1 st Condition
<i>COND_2</i>	char	Entity Axis 2 nd Condition
<i>COND_3</i>	char	Entity Axis 3 rd Condition
<i>COND_4</i>	char	Entity Axis 4 th Condition
<i>COND_5</i>	char	Entity Axis 5 th Condition
<i>COND_6</i>	char	Entity Axis 6 th Condition
<i>COND_7</i>	char	Entity Axis 7 th Condition
<i>COND_8</i>	char	Entity Axis 8 th Condition
<i>COND_9</i>	char	Entity Axis 9 th Condition
<i>COND_10</i>	char	Entity Axis 10 th Condition
<i>COND_11</i>	char	Entity Axis 11 th Condition
<i>COND_12</i>	char	Entity Axis 12 th Condition
<i>COND_13</i>	char	Entity Axis 13 th Condition
<i>COND_14</i>	char	Entity Axis 14 th Condition
<i>COND_15</i>	char	Entity Axis 15 th Condition
<i>COND_16</i>	char	Entity Axis 16 th Condition
<i>COND_17</i>	char	Entity Axis 17 th Condition
<i>COND_18</i>	char	Entity Axis 18 th Condition
<i>COND_19</i>	char	Entity Axis 19 th Condition
<i>COND_20</i>	char	Entity Axis 20 th Condition

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>NUMRAXCN</i>	numeric	Number of Record Axis Conditions See Underlying and Multiple Causes
		00 – 20 Code range
		Blank Cause of death code not available
<i>RCOND_1</i>	char	Record Axis 1 st Condition
<i>RCOND_2</i>	char	Record Axis 2 nd Condition
<i>RCOND_3</i>	char	Record Axis 3 rd Condition
<i>RCOND_4</i>	char	Record Axis 4 th Condition
<i>RCOND_5</i>	char	Record Axis 5 th Condition
<i>RCOND_6</i>	char	Record Axis 6 th Condition
<i>RCOND_7</i>	char	Record Axis 7 th Condition
<i>RCOND_8</i>	char	Record Axis 8 th Condition
<i>RCOND_9</i>	char	Record Axis 9 th Condition
<i>RCOND_10</i>	char	Record Axis 10 th Condition
<i>RCOND_11</i>	char	Record Axis 11 th Condition
<i>RCOND_12</i>	char	Record Axis 12 th Condition
<i>RCOND_13</i>	char	Record Axis 13 th Condition
<i>RCOND_14</i>	char	Record Axis 14 th Condition
<i>RCOND_15</i>	char	Record Axis 15 th Condition
<i>RCOND_16</i>	char	Record Axis 16 th Condition
<i>RCOND_17</i>	char	Record Axis 17 th Condition
<i>RCOND_18</i>	char	Record Axis 18 th Condition
<i>RCOND_19</i>	char	Record Axis 19 th Condition
<i>RCOND_20</i>	char	Record Axis 20 th Condition

Survey Data

<i>DOBMONTH</i>	numeric	Month of Birth – See Detailed Notes
		01 January
		02 February
		03 March
		04 April
		05 May
		06 June
		07 July
		08 August
		09 September

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>DOBMONTH</i>	numeric	Month of Birth (cont.) 10 October 11 November 12 December
<i>DOBDAY</i>	numeric	Day of Birth – See Detailed Notes 01 - 31 Day
<i>DOBYEAR</i>	numeric	Year of Birth – See Detailed Notes 1897 - 2004 Year
<i>MECMONTH</i>	numeric	Month of MEC Exam 01 January 02 February 03 March 04 April 05 May 06 June 07 July 08 August 09 September 10 October 11 November 12 December Blank No MEC exam
<i>MECDAY</i>	numeric	Day of MEC Exam 01 - 31 Day Blank No MEC exam
<i>MECYEAR</i>	numeric	Year of MEC Exam 1999 - 2005 Year Blank No MEC exam

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Restricted-use File Layout

<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>AGEMEC</i>	numeric	Age at MEC Exam - See Detailed Notes 0 - 104 Age in years Blank No MEC exam
<i>SCRMONTH</i>	numeric	Month of Screener Interview 01 January 02 February 03 March 04 April 05 May 06 June 07 July 08 August 09 September 10 October 11 November 12 December
<i>SCRNDAY</i>	numeric	Day of Screener Interview 01 - 31 Day
<i>SCRNYEAR</i>	numeric	Year of Screener Interview 1999 - 2005 Year
<i>AGESCREEN</i>	numeric	Age at Screener Interview - See Detailed Notes 0 - 104 Age in years

National Health and Nutrition Examination Survey (NHANES 1999-2004) Linked Mortality Files

Restricted-use Detailed Notes

SEQN – NHANES Sequence Number

The NHANES Linked Mortality Restricted-use Files can be linked to the public-use NHANES data files using the numeric variable, SEQN. Using this variable will ensure the appropriate information for each survey participant is merged correctly.

ELIGSTAT – Eligibility Status for Mortality Follow-Up

Continuous NHANES participants are defined as ineligible for mortality linkage if they had insufficient identifying data to create a National Death Index submission record ([See Mortality Linkage Eligibility, Tables 1 and 2](#)). Please note that all Continuous NHANES participants are included on the linked mortality files.

MORTSTAT – Final Mortality Status

The MORTSTAT variable is NCHS's final determination of vital status and should be used as an outcome variable and to calculate survival. Each Continuous NHANES participant who is eligible for mortality follow-up is assigned a vital status code (0 = assumed alive; 1 = assumed deceased).

MORTALITY SOURCE. NCHS has multiple sources of information to determine the final mortality status of a Continuous NHANES survey participant. Variables indicating which source or sources were used to determine vital status are available on the linked mortality file and are described below. Any combination of these mortality sources was used to identify Continuous NHANES decedents.

MORTSRCE_NDI - Mortality Source: NDI Match

A code 1 indicates that mortality status was ascertained through a probabilistic match to a National Death Index (NDI) record.

MORTSRCE_SSA - Mortality Source: SSA Information

A code 1 indicates that mortality status was obtained from the Social Security Administration (SSA).

AGEDEATH – Age at Death

Misreporting or discrepancies in reported age at baseline (screener interview or MEC exam) or date of birth can result in values for age at death that may be inconsistent with baseline age. [See Analytic Guidelines.](#)

**National Health and Nutrition Examination Survey (NHANES 1999-2004)
Linked Mortality Files**

Restricted-use Detailed Notes

AGEPRALV – Age When Last Presumed Alive (age as of December 31, 2006)

Misreporting or discrepancies in reported age at baseline (screener interview or MEC exam) or date of birth can result in values for age when last presumed alive that may be inconsistent with baseline age. [See Analytic Guidelines](#).

**National Health and Nutrition Examination Survey (NHANES 1999-2004)
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Restricted-use Detailed Notes

CAUSEAVL – Cause of Death Data Available

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.

SURVEY DATA AGE AND DATE OF BIRTH VARIABLES. Years of age at MEC Exam (AGEMEC) and years of age at Screener (AGESCREEN) have been provided on the linked mortality file for your convenience. Age has not been top-coded.

Complete date of birth information has been provided on the linked mortality files for your convenience. Year of birth has not been bottom-coded. Where date of birth information is unavailable, it has been imputed with month = 06, day = 15, and YEAR = NHANES survey year minus the age at screener.