

Codebook for the 2019 Linked Mortality File (LMF)

Mortality Variables

Date Created: 07JUL2021

Number of Variables: 115

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		Public use identifier assigned by NCHS. Researchers linking the NHIS to the public-use LMF should use PUBLICID. To merge the NHIS public-use with the public-use LMF, please refer to the Methods and Analytic Considerations documentation found here: https://www.cdc.gov/nchs/data-linkage/mortality-methods.htm
SEQN	NHANES Respondent Sequence Number	Num	5	ID		Public use identifier assigned by NCHS. Researchers linking to NHEFS, NHANES III, and 1999-2018 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.
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	
MORTSTAT	Final Mortality Status	Num	3	0	0: Linkage eligible, 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.
				1	1: Linkage eligible, assumed deceased based on NDI linkage	

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				2	2: Linkage eligible, assumed deceased from non-NDI source	
				.	.: Ineligible for data linkage	
MORTSRCE_DC	Mortality Source: Death Certificate Match	Num	3	1	1: Mortality status obtained from a death certificate	Variable is available for NHEFS and NHANES III. MORTSRCE_DC = 1 indicates that mortality status was obtained from a death certificate as part of a survey operation.
				.	.: Assumed alive, ineligible for linkage, or death by source other than death certificate match	
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 III, 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.
				.	.: Assumed alive, ineligible for linkage, or death by source other than data collection	
MORTSRCE_NDI	Mortality Source: NDI Match	Num	3	1	1: Mortality status ascertained through linkage to the NDI	A code=1 indicates that mortality status was ascertained through a probabilistic or deterministic match to a National Death Index (NDI) record.
				.	.: Assumed alive, ineligible for linkage, or death by source other than NDI linkage	
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.

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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.
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	
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	
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	.		

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COND_8	Entity Axis 8th Condition	Char	7	.		
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	.		
ADMDAY	Day of Admission	Num	3	1-31	Day 1 - 31	Only applicable for: NNHS (1985, 1995, 1997, 2004)
				.	.: N/A	
ADMMONTH	Month of Admission	Num	3	1	1: January	Only applicable for: NNHS (1985, 1995, 1997, 2004)

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				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	
				.	.: N/A	
ADMYEAR	Year of Admission	Num	4	1932-2004	Year 1932 - 2004	Only applicable for: NNHS (1985, 1995, 1997, 2004)
				.	.: N/A	
AGEEXAM	Age at Exam	Num	3			Only applicable for: NHEFS
AGEHOMEX	Age at Home Exam	Num	3			Only applicable for: NHANES III
AGEINTV	Age at Interview	Num	3			Only applicable for: LSOA II, NHIS (1985-2018), NNHS (1985, 1995, 1997, 2004)
AGEMEC	Age at MEC Exam	Num	3			Only applicable for: NHANES III, Continuous NHANES (1999-2018)
AGESCREEN	Age at Screener Interview	Num	3			Only applicable for: NHANES III, Continuous NHANES (1999-2018)

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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.
				.	.: 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	
				.	.: 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.
				.	.: Current Resident	
DOBDAY	Day of Birth	Num	3	1-31	Day 1 - 31	
				.	.:Missing	
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	
				.	.: Missing	
DOBYEAR	Year of Birth	Num	4	1876-2018	Year 1876 - 2018	
				.	.: Missing	

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DODDAY	Day of Death	Num	3	1-31	Day 1 - 31	
				.	.: 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	
				.	.: Ineligible or assumed alive	
DODYEAR	Year of Death	Num	4	1971-2019	Year 1971 - 2019	
				.	.: Ineligible or assumed alive	
DOEDAY	Day of Exam	Num	3	1-31	Day 1 - 31	Only applicable for: NHEFS
				.	.: No Exam	
DOEMONTH	Month of Exam	Num	3	1	1: January	Only applicable for: NHEFS

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				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
				.	.: No Exam	
HMEMONTH	Month of Home Exam	Num	3	1	1: January	Only applicable for: NHANES III
				2	2: February	
				3	3: March	
				4	4: April	
				5	5: May	
				6	6: June	
				7	7: July	
				8	8: August	
				9	9: September	

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Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Range of Values	Value Description	Notes
				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: LSOA II, NHIS (1986-2018), NNHS (1985, 1995, 1997, 2004)
				.	.: Missing interview day	
INTVMONTH	Month of Interview	Num	3	1	1: January	Only applicable for: LSOA II, NHIS (1986-2018), NNHS (1985, 1995, 1997, 2004)
				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	

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Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Range of Values	Value Description	Notes
				12	12: December	
				.	.: Missing interview month	
INTVYEAR	Year of Interview	Num	4	1984-2019	Year 1984 - 2019	Only applicable for: LSOA II, NHIS (1986-2018), NNHS (1985, 1995, 1997, 2004)
				.	.: Missing interview year	
MECDAY	Day of MEC Exam	Num	3	1-31	Day 1 - 31	Only applicable for: NHANES III, Continuous NHANES (1999-2018)
				.	.: No MEC Exam	
MECMONTH	Month of MEC Exam	Num	3	1	1: January	Only applicable for: NHANES III, Continuous NHANES (1999-2018)
				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 MEC Exam	
MECYEAR	Year of MEC Exam	Num	4	1988-2019	Year 1988 - 2019	Only applicable for: NHANES III, Continuous NHANES (1999-2018)

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Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Range of Values	Value Description	Notes
				.	.: No MEC Exam	
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	
NUMRAXCN	Number of Record Axis Conditions	Num	3	0-20	Code range 00 - 20	

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				.	∴ 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	.		
RCOND_14	Record Axis 14th Condition	Char	5	.		

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Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Range of Values	Value Description	Notes
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 1987-2014 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 1986 NHIS Linked Mortality Files, there are no eligibility adjusted sample weights and WGT_NEW is left blank. For NHIS 1986, NCHS recommends using WTFA from the public-use files. WGT_NEW is not available for LSOA II.
SA_WGT_NEW	Weight Adjusted for Ineligible Respondents - Sample Adult Sample Weight	Num	8			Only for 1997-2018 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 LSOA II.

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SC_WGT_NEW	Weight Adjusted for Ineligible Respondents - Sample Child Sample Weight	Num	8			Only for 1997-2018 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 LSOA II.
SCRMONTH	Month of Screener Interview	Num	3	1	1: January	Only applicable for: NHANES III, Continuous NHANES (1999-2018)
				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 (1999-2018)
				.	.: No Screener Interview	

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Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Range of Values	Value Description	Notes
SCRNYEAR	Year of Screener Interview	Num	4	1988-2019		Only applicable for: NHANES III, Continuous NHANES (1999-2018)
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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					Blank: Cause of death data not available or death before 1999	

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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: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_cause_of_death_codes.pdf
					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 2018. 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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				.	.: 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	

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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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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	