Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ^{1, 2}
SURVEY	Survey Name	Char			The values for this variable are: 'NHCS 2014' or 'NHCS 2016'
PATIENT_ID	Patient Identification Number	Char	ID		Public use identifier assigned by NCHS. Researchers linking to the NHCS analytic file should use PATIENT_ID as the common key.
ELIGSTAT	Linkage Eligibility Status	Num	0	0: Ineligible	Survey participants are defined as ineligible for linkage if they had insufficient identifying data to create a NHCS submission record. Please note that all survey participants are included on the linked NHCS files regardless of linkage eligibility.
			1	1: Eligible	
MORTSTAT	Final Mortality Status	Num	0	0: Eligible for data linkage, assumed alive	Blank values imply linkage ineligibility. The MORTSTAT variable is NCHS's final determination of vital status and should be used as an outcome variable and to calculate survival. Codes are assigned depending on eligiblity and vital status.
			1	Eligible for data linkage, assumed deceased based on NDI linkage	
			2	2: Eligible for data linkage, assumed deceased from non-NDI source	
			3	3: Ineligible for data linkage, assumed deceased from non-NDI source	
			Missing	Ineligible for data linkage, no other source of death available	
MORTSRCE_NDI	Mortality Source: NDI Match	Num	1	1: Mortality status ascertained through a probabilistic match to a NDI record	MORTSRCE_NDI=1 indicates that mortality status was ascertained through a probabilistic match to a National Death Index (NDI) record.
			Missing	Assumed alive, ineligible for linkage, or death by source other than NDI linkage	

¹2014 Mortality Multiple Cause-of-Death Record Layout: https://www.cdc.gov/nchs/data/dvs/Record_Layout_2014.pdf (accessed on August 06, 2019) ²2016 Mortality Multiple Cause-of-Death Record Layout: https://www.cdc.gov/nchs/data/dvs/Multiple_Cause_Record_Layout_2016.pdf (accessed on August 06, 2019)

Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ^{1, 2}
MORTSRCE_DCL	Mortality Source: Data Collection	Num	1	1: Death information obtained from NHCS data	MORTSRCE_DCL=1 indicates that death information was obtained from the hospital record.
			Missing	Assumed alive, ineligible for linkage, or death by source other than data collection	
MORTSRCE_CMS	Mortality Source: CMS Information	Num	1	1: Mortality status ascertained through a probabilistic match to a CMS record	MORTSRCE_CMS=1 indicates that mortality status was ascertained through a probabilistic match to Centers for Medicare and Medicaid Services (CMS) administrative records. CMS date of death is available to researchers upon request and may differ from NDI and/or NHCS reported date of death.
			Missing	Assumed alive, ineligible for linkage, or death by source other than CMS linkage	
AGEDEATH	Age at Death	Num			Blank values imply missing date of birth, linkage ineligibility, or assumed alive. Misreporting of date of birth may result in values for age at death that are missing or improbable.
AGEPRALV	Age When Last Presumed Alive	Num			Blank values imply missing date of birth, linkage ineligibility, or assumed deceased. Misreporting of date of birth may result in values for age when last presumed alive that are missing or improbable.
CAUSEAVL	Cause of Death Data Available	Num	0	0: No	Blank values imply linkage ineligibility, assumed alive, or assumed deceased based on non-NDI source. Death certificate data is available only for cases where the variable MORTSTAT=1 and MORTSRCE_NDI = 1. Users should also note that it is possible to have an NDI match but no cause of death data available.
			1	1: Yes	
			Missing	Ineligible, assumed alive, or assumed deceased based on non-NDI source	
NUMENTAX	Number of Entity Axis Conditions	Num	0-20	Code range 00 - 20	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Variable represents the count of entity axis conditions present on the cause of death record (Max of 20).
			Missing	Assumed alive, ineligible for linkage, or information is unavailable	

Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ^{1, 2}
COND_1	Entity Axis 1st Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
					Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to
COND_2	Entity Axis 2nd Condition	Char			table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_3	Entity Axis 3rd Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_4	Entity Axis 4th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_5	Entity Axis 5th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_6	Entity Axis 6th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_7	Entity Axis 7th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_8	Entity Axis 8th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_9	Entity Axis 9th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)

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Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ^{13 2}
COND_10	Entity Axis 10th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_11	Entity Axis 11th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_12	Entity Axis 12th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_13	Entity Axis 13th Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_14	Entity Axis 14th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_15	Entity Axis 15th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_16	Entity Axis 16th Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_17	Entity Axis 17th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_18	Entity Axis 18th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)

Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ¹ ³
COND_19	Entity Axis 19th Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
COND_20	Entity Axis 20th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
DOBDAY	Day of Birth	Num	1-31	Day 1 - 31	Day of birth from NHCS record.
			99	99: Unavailable	
DOBMONTH	Month of Birth	Num	1	1: January	Month of birth from NHCS record.
			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			Year of birth from NHCS record. Improbable years of birth may be present on survey records.

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Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ^{1, 2}
DODDAY	Day of Death	Num	1-31	Day 1 - 31	Blank values imply linkage ineligibility or assumed alive. Day of death from record indicated by the MORTSRCE variables. If more than one MORTSRCE variable implies mortality, DODDAY was the same in each source.
			Missing	Ineligible or assumed alive	
DODMONTH	Month of Death	Num	1	1: January	Blank values imply linkage ineligibility or assumed alive. Month of death from record indicated by the MORTSRCE variables. If more than one MORTSRCE variable implies mortality, DODMONTH was the same in each source.
			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	Ineligible or assumed alive	
DODYEAR	Year of Death	Num	2014-2015; 2016-2017		Blank values imply linkage ineligibility or assumed alive. Year of death reported from record indicated by the MORTSRCE variables. If more than one MORTSRCE variable implies mortality, DODYEAR was the same in each source. 2014 NHCS linkage to NDI years are between 2014 – 2015 and for the 2016 NHCS linkage to NDI years are between 2016 – 2017.
ICD_10REV	ICD-10 Underlying Cause of Death	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. 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 deaths occurring between 2016 and 2017. 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.

¹2014 Mortality Multiple Cause-of-Death Record Layout: https://www.cdc.gov/nchs/data/dvs/Record_Layout_2014.pdf (accessed on August 06, 2019)

²2016 Mortality Multiple Cause-of-Death Record Layout: https://www.cdc.gov/nchs/data/dvs/Multiple_Cause_Record_Layout_2016.pdf (accessed on August 06, 2019)

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Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ¹ ²
NUMRAXCN	Number of Record Axis Conditions	Num	0-20	Code range 00 - 20	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Variable represents the count of record axis conditions present on the cause of death record (Max of 20).
			Missing	Assumed alive, ineligible for linkage, or information is unavailable	
RCOND_1	Record Axis 1st Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_2	Record Axis 2nd Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_3	Record Axis 3rd Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_4	Record Axis 4th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_5	Record Axis 5th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_6	Record Axis 6th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_7	Record Axis 7th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)

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Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ¹³ 2
RCOND_8	Record Axis 8th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_9	Record Axis 9th Condition	Char	·		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_10	Record Axis 10th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_11	Record Axis 11th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_12	Record Axis 12th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_13	Record Axis 13th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_14	Record Axis 14th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_15	Record Axis 15th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_16	Record Axis 16th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)

Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes¹∍²
RCOND_17	Record Axis 17th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_18	Record Axis 18th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_19	Record Axis 19th Condition	Char			Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
RCOND_20	Record Axis 20th Condition	Char	-		Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Please refer to table 1 on the 'Mortality Multiple Cause-of-Death Record Layout' for additional detailed variable descriptions. (See links in footnotes below)
UCOD_113	ICD-10 Underlying Cause of Death 113 Groups Recode	Char	001-135	Code range 001 - 135	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. See Underlying and Multiple Causes of Death: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf (accessed on August 06, 2019)
			Missing	Assumed alive, ineligible for linkage, or information is unavailable	
UCOD_358	ICD-10 Underlying Cause of Death 358 Groups Recode	Char	001-456	Code range 001 - 456	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. See Underlying and Multiple Causes of Death: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf (accessed on August 06, 2019)
			Missing	Assumed alive, ineligible for linkage, or information is unavailable	
UCOD_39	ICD-10 Underlying Cause of Death 39 Groups Recode	Char	001-042	Code range 001 - 042	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. See Underlying and Multiple Causes of Death: https://www.cdc.gov/nchs/data/datalinkage/underlying_and_multiple_causes_of_death557.pdf (accessed on August 06, 2019)

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Variable Name	Variable (VAR) Label	VAR Type	Range of Values	Value Description	Notes ¹³⁻²
			Missing	Assumed alive, ineligible for linkage, or information is unavailable	
DIABETES	Diabetes Flag from Multiple Cause of Death (MCOD)	Num	0	0: No	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Variable indicates if a diagnosis code related to diabetes was identified in cause of death information.
			1	1: Yes – Condition listed as a multiple cause of death (MCOD)	
			Missing	Assumed alive, ineligible for linkage, or MCOD not available	
HIPFRACT	Hip Fracture Flag from Multiple Cause of Death (MCOD)	Num	0	0: No	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Variable indicates if a diagnosis code related to hip fracture was identified in cause of death information.
			1	1: Yes – Condition listed as a multiple cause of death (MCOD)	
			Missing	Assumed alive, ineligible for linkage, or MCOD not available	
HYPERTEN	Hypertension Flag from Multiple Cause of Death (MCOD)	Num	0	0: No	Blank values imply linkage ineligibility, assumed alive, or cause of death information unavailable. Variable indicates if a diagnosis code related to hypertension was identified in cause of death information.
			1	1: Yes – Condition listed as a multiple cause of death (MCOD)	
			Missing	Assumed alive, ineligible for linkage, or MCOD not available	