

# Codebook for the 2019 Linked Mortality File (LMF)

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	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	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: <a href="https://www.cdc.gov/nchs/data-linkage/mortality-methods.htm">https://www.cdc.gov/nchs/data-linkage/mortality-methods.htm</a>
SEQN	NHANES Respondent Sequence Number	Num	5	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	Public use identifier assigned by NCHS. Researchers linking to the 2004 NNHS should use RESNUM.
FACID	1997 NNHS - Patient ID Number	Num	6	Public use identifier assigned by NCHS. Researchers linking to the 1997 NNHS should use FACID.
CRID	1995 NNHS - Patient ID Number	Num	6	Public use identifier assigned by NCHS. Researchers linking to the 1995 NNHS should use CRID.
DVS_AUTOPSY_FLAG	Autopsy Performed	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BIRTH_COUNTRY	Country of Birth	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BIRTH_COUNTRY_REC	State/Country of Birth recode Hispanic Origin	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BIRTH_DAY	Day of Birth	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BIRTH_MONTH	Month of Birth	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BIRTH_STATE	State of Birth	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_BIRTH_YEAR	Year of Birth	Num	4	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_BRIDGED_RACE_FLAG	Bridged Race	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_CERTIFIER	Certifier	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_CERTIFIER_LITERAL	Certifier Literal	Char	30	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_ACTIVITY	Activity Code	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE	Age at Death	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_CLASS_1	Age Recode 1	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_CLASS_2	Age Recode 2	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_CLASS_3	Age Recode 3	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_INFANT	Age Infant Recode	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_SUB_FLAG	Age of Death Substitution Flag	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_AGE_UNIT	Age at Death Unit	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_DEATH_COUNTY	County	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_COUNTY_POPULATION	County Population size	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_FIPS_COUNTY	County (FIPS)	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_FIPS_STATE	State or Territory (FIPS)	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_MANNER	Manner of death	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_PLACE	Place of Death-Hospital and Status/Decedent Status	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_REG_DIV_STATE	Region and Division	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_STATE	Expanded State (includes NYC)	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_DEATH_STATE_1	State of Occurrence (Numeric)	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_EDUCATION	Education	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_EDUCATION_REC	Education Recode	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

# Codebook for the 2019 Linked Mortality File (LMF)

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_EDUCATION_RPT_FLAG	Education Reporting Flag	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_INDUSTRY	Kind of Business or Industry	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_INJURY_PLACE	Place of Accident/Injury for Specified Causes	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_MANNER_DISPOSITION	Method of Disposition	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_MARITAL_STAT	Marital Status	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_NCHS_SMSA	PMSA/MSA	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_OCCUPATION	Usual Occupation Education	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_ORIGIN_CHECK_BOX	Hispanic Origin Checkbox Items	Char	4	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_ORIGIN_DESCENT	Origin or Descent/Hispanic Origin	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_ORIGIN_LITERAL	Hispanic Origin Literal	Char	20	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_ORIGIN_LITERAL_CODE	Hispanic Origin Literal Code	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_ORIGIN_RECODE	Hispanic Origin/Race Recode	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_PREGNANCY_STATUS	Pregnancy Status	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RACE	Race (Detail)	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RACE_IMPUTE_FLAG	Race Imputation Flag	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RACE_MULTIPLE	Multiple Race Fields	Char	32	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RACE_RECODE_1	Recode 1	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RACE_RECODE_2	Recode 2	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RECORD_TYPE	Record Type	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_REPORT_AREA	Reporting Area	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_CITY	City	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_COUNTY	County	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_COUNTY_METRO_FLAG	Metropolitan/Nonmetropolitan County	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_RES_COUNTY_POPULATION	County Population Size	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_CITY	City (FIPS)	Num	5	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_CMSA	CMSA (FIPS)	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_COUNTRY	Country of Residence	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_COUNTY	County (FIPS)	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_MSA	PMSA/MSA (FIPS)	Num	4	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_FIPS_STATE	State (FIPS)	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_MSA_POPULATION	PMSA/MSA Population Size	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_POPULATION	City Population Size	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_REG_DIV_STATE	Region, Division, and State Subcode	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_STATE	Expanded State (includes NYC)	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_RES_STATE_COUNTRY_REC	State/Country Recode	Char	2	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>

## Death Certificate and NDI Match Variable

Date Created: 07JUL2021

Number of Variables: 76

Variable Name	Variable (VAR) Label	VAR Type	VAR Length	Notes
DVS_RESIDENT_STATUS	Resident Status	Num	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_SEX	Sex	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_TOBACCO_LITERAL	Tobacco Use Contributed to Death	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_UCOD_130_INFANT	Underlying Cause Of Death 130 Infant Groups Recode (ICD-10)	Char	3	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
DVS_WORK_INJURY	Injury at Work	Char	1	Variable values and a more detailed variable description can be found here: <a href="https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm">https://www.cdc.gov/nchs/nvss/mortality_public_use_data.htm</a>
PROBVALID		Num	8	Model-derived estimate of the probability that a given pair is a match. Threshold for probvalid differed by survey, see methods/analytic considerations report.