Underlying and Multiple Cause of Death Codes

This report contains information about the underlying cause of death variables included in the 2019 Restricted-Use Linked Mortality File (LMF). There are six underlying cause of death variables. Three variables are derived from the ICD-9 coding scheme (UCOD_282, UCOD_72, and UCOD_34); two are from the ICD-10 (UCOD_358 and UCOD_39); and one variable codes deaths from both the ICD-9 and ICD-10 into a single variable (UCOD_113).

Please refer to the Public Use Data File Documentation website (https://www.cdc.gov/nchs/nvss/ mortality_public_use_data.htm) of the National Vital Statistics System (NVSS) for more detailed information on the ICD-9 and ICD-10 coding schemes.

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ICD-10 Underlying Cause of Death for Death Years 1979-2019

To assist the researcher with mortality analyses that span the entire mortality period of the Linked Mortality File all deaths from 1979 through 1998 were recoded into comparable ICD-10 based underlying cause of death recode groups. For more information on the comparability and possible adjustments of ICD-9 and ICD-10 underlying cause of death recodes please refer to the following National Vital Statistics Report (https://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_02.pdf):

Anderson RN, Miniño AM, Hoyert DL, Rosenberg HM. *Comparability of cause of death between ICD-9 and ICD-10: Preliminary estimates.* National Vital Statistics Reports; Vol 49 No.2. Hyattsville, Maryland: National Center for Health Statistics. 2001.

Underlying Cause of Death Recodes:

• 113 Causes of Death (UCOD_113)



ICD-9: Underlying Cause of Death for Death Years 1979-1998

The underlying cause of death is coded according to the 9th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-9) for survey participant deaths occurring between 1979 and 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. For deaths due to injury or poisoning, the underlying cause of death is classified according to the intent or manner of death using ICD-9 external cause codes E800-E999; however, the actual E character is omitted from the ICD_9REV fields. Information on the nature of the fatal injury or poisoning is coded using ICD-9 codes 800-999 and can only be found in the multiple cause of death condition codes (COND_1-COND_20 and RCOND_1-RCOND_20). External cause of death codes (E800-E999) that appear in the multiple cause of death condition codes do contain E codes so that they may be distinguished from nature of injury codes (800-999).

For more information regarding ICD-9 coding guidelines see the *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death: Based on the Recommendations of the Ninth Revision Conference, 1975, and Adopted by the Twenty-ninth World Health Assembly, Volume 1, 1977 (World Health Organization).*

Underlying Cause of Death Recodes:

- 282 Causes of Death (UCOD_282)
- 72 Causes of Death (UCOD_72)
- 34 Causes of Death (UCOD_34)



ICD-10: Underlying Cause of Death for Death Years 1999-2019

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 survey participant deaths occur-ring between 1999 and 2019. 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. For deaths due to injury or poisoning, the underlying cause of death is classified according to intent or manner of death using U, V, W, X, and Y codes. Information on the nature and body region affected by the injury and poisoning is coded using S and T codes and can only be found in the multiple cause of death condition codes.

For more information regarding ICD-10 coding guidelines see the *International Statistical Classification of Diseases and Related Health Problems, 10th Revision,* Volume 2, 2010 (World Health Organization).

Underlying Cause of Death Recodes:

- 358 Causes of Death (UCOD_358)
- 39 Causes of Death (UCOD_39)



Multiple Cause of Death Codes

4.1 NCHS Procedures Used to Code Multiple Cause Data

The original scheme for coding conditions listed on the death certificate was designed with two objectives in mind. First, in order to facilitate etiological studies of the relationships among conditions it was necessary to reflect accurately, in coded form, each condition and its location on the certification in the exact manner given by the certifier. Secondly, the codification needed to be carried out in a manner by which the underlying cause of death could be assigned through computer applications. The approach was to suspend the linkage provisions of the ICD for the purpose of condition coding and code each entity with minimum regard to other conditions present on the certification. This general approach is hereafter called entity coding.

Unfortunately, the set of multiple cause codes produced by entity coding is not conducive to a third objective — the generation of person-based multiple cause statistics. Person-based analysis requires that each condition be coded within the context of every other condition on the same certificate and modified or linked to such conditions as provided by the ICD. By definition, the entity data cannot meet this requirement since the linkage provisions distort the character and placement of the information originally recorded by the certifying physician.

Since the two objectives are incompatible, the Division of Vital Statistics (DVS) at the National Center for Health Statistics chose to create from the original set of entity codes a new code set called record axis multiple cause data. Essentially, the axis of classification has been converted from an entity basis to a record (or person) basis. The record axis codes are assigned in terms of the set of codes that best describe the overall medical certification portion of the death certificate. The translation is accomplished by a computer system called TRANSAX (TRANSLATION OF AXIS) through selective use of traditional linkage and modification rules for mortality coding. Underlying cause linkages which simply prefer one code over another for purposes of underlying cause selection are not included. Each entity code on the record is examined and modified or deleted as necessary to create a set of codes which are free of contradictions and are the most precise within the constraints of ICD-9 and medical information on the record. Repetitive codes are deleted. The process may (1) combine two entity axis categories together into a new category thereby eliminating a contradiction or standardizing the data; or (2) eliminate one category in favor of another to promote specificity of the data or to resolve contradictions.



4.2 Entity Axis Multiple Cause of Death Codes: COND_1-COND_20

Space has been provided for a maximum of 20 entity axis conditions. Each condition takes 7 positions in the record. For ICD-10 condition codes, the 7th position will be blank. Records that do not have 20 conditions are blank in the unused area.

Position 1:	Part/line number on certificate (see Figure 4.1)				
	ICD-9 and ICD-10 condition codes				
	1 Part I, line 1 (a)				
	2 Part I, line 2 (b)				
	3 Part I, line 3 (c)				
	4 Part I, line 4 (d)				
	5 Part I, line 5 (e)				
	6 Part II				
Position 2:	Sequence of condition within part/line				
	ICD-9 condition codes				
	1-9 Code range				
	ICD-10 condition codes				
	1-7 Code range				
Position 3-6:	ICD-9 condition code for deaths occurring from 1979-	1998			
	ICD-10 condition code for deaths occurring from 1999				
	For a complete list of ICD-9 codes refer to Manual of the				
	tistical Classification of Diseases, Injuries, and Causes of D				
	Recommendations of the Ninth Revision Conference, 1975,				
	Twenty-ninth World Health Assembly, Volume 1, 1977 (W	, ,			
	tion).	0			
	,				
	For a complete list of ICD-10 codes refer to International S	Statistical Classifica-			
	tion of Diseases and Related Health Problems, 10 th Revisio	on, Volume 2, 2010			
	(World Health Organization).				
Position 7:	ICD-9 Nature of Injury Flag				
	1 Indicates that the code in positions 3-6 is an ICD-9 N	ature of Iniury code			
	0 All other codes	atalo el injuly couo			
	Note: For ICD-10 the 7 th position will be blank				
32 DADT L Enter the	CAUSE OF DEATH (See instructions and examples) chain of events-diseases, injuries, or complications-that directly caused the death, DO NOT enter terminal events such as cardiac	Approximate interval:			
arrest, respiratory a lines if necessary.	arrest, or ventricular fibrillation without showing the etiology. DO NOT ABBREVIATE. Enter only one cause on a line. Add additional	Onset to death			
IMMEDIATE CAUSE (Fi disease or condition resulting in death)					
Sequentially list condition	ons, b				
if any, leading to the ca listed on line a. Enter th UNDERLYING CAUSE	he				
(disease or injury that initiated the events resu	Due to (or as a consequence of):				
in death) LAST	d	JTOPSY PERFORMED?			
PART II. Enter other sign		JTOPSY PERFORMED? Yes □ No OPSY FINDINGS AVAILABLE TO			
		E CAUSE OF DEATH? Yes No			

Figure 4.1: Medical certification portion of the U.S. Standard Certificate of Death



4.3 Record Axis Multiple Cause of Death Codes: RCOND_1-RCOND_20

Space has been provided for maximum of 20 record axis conditions. For ICD-10 condition codes, the 5th position will be blank. Each condition takes 5 positions in the record. Records that do not have 20 conditions are blank in the unused area.

Position 1-4:	ICD-9 condition code for deaths occurring from 1979-1998 ICD-10 condition code for deaths occurring from 1999-2019
	For a complete list of ICD-9 codes refer to Manual of the International Sta-
	tistical Classification of Diseases, Injuries, and Causes of Death: Based on the
	Recommendations of the Ninth Revision Conference, 1975, and Adopted by the
	Twenty-ninth World Health Assembly, Volume 1, 1977 (World Health Organiza-
	tion).
	For a complete list of ICD-10 codes refer to <i>International Statistical Classifica-</i> <i>tion of Diseases and Related Health Problems, 10th Revision</i> , Volume 2, 2010 (World Health Organization).
Position 5:	ICD-9 Nature of Injury Flag
	$1\ldots$ Indicates that the code in positions 3-6 is an ICD-9 Nature of Injury code
	0 All other codes
	Note: For ICD-10 the 5 th position will be blank



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Underlying Cause of Death Tables

The following tables present underlying cause of death codes for deaths coded according to either ICD-10 (tables 5.1, 5.5, 5.6) or ICD-9 (5.2, 5.3, 5.4), respectively. Table 5.1 allows researchers to use a single coding scheme (ICD-10) if their analysis spans both the ICD-9 and ICD-10 coding time frames.

A recode designated as "Subtotal" (ST=1) represents an aggregation of sub-codes. This aggregated code does **not** exist on the file (i.e. it is not assigned to decedents) — only the sub-codes or non-Subtotal codes are used.

Codes with a "Limited" value, e.g. Sex=2, indicates that particular cause of death only applies to a specific population. For example, *Malignant neoplasm of ovary* is limited to Sex=2 (females) whereas *Malignant neoplasm of prostate* is limited to males (Sex=1).



5.1 113 Causes of Death, 10th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-2019

Table 5.1: 113 Causes of Death, 10^{th} Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-2019

ST: 1 = Subtotal	Limited — Sex: $1 =$ Males; $2 =$ Females
	Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;
	4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over;
	7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

Recode ST Sex Age Cause Title and Codes Included 001 Salmonella infections (A01-A02) Salmonella infections (A03,A06) 003 Certain other intestinal infections (A04,A07-A09) 004 1 Tuberculosis (A16-A19) 005 Respiratory tuberculosis (A16) 006 Other tuberculosis (A17-A19) 007 Scarlet fever and enspieals (A38,A46) 008 Septicemia (A0-A41) 010 3 Septicemia (A0-A41) 011 Suppliis (A50-A53) 012 Acute poliomyelitis (A80) 013 Acute poliomyelitis (B15-B19) 014 Malagnant neoplasms of lip, oral cavity and pharynx (C00-C14) 015 Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20-A36,A42- A44,A48-A49,A54-A79,A31-A32,A85.0-A85.1,A85.8, A86-B04,B06-B09,B25-B49,B55-B99) 019 1 Malignant neoplasms of lip, oral cavity and pharynx (C00-C14) 012 Malignant neoplasm of somond (C16) 023 Valianat neoplasms of parceas (C25) 024 Malignant neoplasms of parceas (C25) 025 Malignant neoplasm of parceas (C25) </th <th></th> <th></th> <th>Lim</th> <th>nited</th> <th></th>			Lim	nited	
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039 Non-Hodgkin's lymphoma (C82-C85)	039				Non-Hodgkin's lymphoma (C82-C85)



	Table 5.1 — 113 Causes of Death – Continued from previous page
ST: $1 = Subtotal$	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over; 4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Lim	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
040				Leukemia (C91-C95)
041				Multiple myeloma and immunoproliferative neoplasms (C88,C90)
042				Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related
0.12				tissue (C96)
043				All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41, C44-
0.0				C49,C51-C52,C57-C60,C62-C63,C66,C68-C69,C73-C80,C97)
044				In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
045				Anemias (D50-D64)
046			3	Diabetes mellitus (E10-E14)
047				Nutritional deficiencies (E40-E64)
048				Malnutrition (E40-E46)
049				Other nutritional deficiencies (E50-E64)
050				Meningitis (G00,G03)
051				Parkinson's disease (G20-G21)
052				Alzheimer's disease (G30)
053	1			Major cardiovascular diseases (100-178)
054	1			Diseases of heart (100-109,111,113,120-151)
055				Acute rheumatic fever and chronic rheumatic heart diseases (100-109)
056				Hypertensive heart disease (I11)
057				Hypertensive heart and renal disease (I13)
058	1			Ischemic heart diseases (120-125)
059				Acute myocardial infarction (I21-I22)
060				Other acute ischemic heart diseases (124)
061	1			Other forms of chronic ischemic heart disease (120,125)
062				Atherosclerotic cardiovascular disease, so described (125.0)
063				All other forms of chronic ischemic heart disease (120,125.1-125.9)
064	1			Other heart diseases (I26-I51)
065				Acute and subacute endocarditis (133)
066				Diseases of pericardium and acute myocarditis (I30-I31,I40)
067				Heart failure (150)
068				All other forms of heart disease (126-128,134-138,142-149,151)
069				Essential (primary) hypertension and hypertensive renal disease (I10,I12)
070				Cerebrovascular diseases (160-169)
071				Atherosclerosis (I70)
072	1			Other diseases of circulatory system (171-178)
073				Aortic aneurysm and dissection (171)
074				Other diseases of arteries, arterioles and capillaries (172-178)
075				Other disorders of circulatory system (180-199)
076	1			Influenza and pneumonia (J10-J18)
077				Influenza (J10-J11)
078				Pneumonia (J12-J18)
079	1			Other acute lower respiratory infections (J20-J22)
080				Acute bronchitis and bronchiolitis (J20-J21)
081				Unspecified acute lower respiratory infection (J22)
082	1			Chronic lower respiratory diseases (J40-J47)
083				Bronchitis, chronic and unspecified (J40-J42)
084			3	Emphysema (J43)
085				Asthma (J45-J46)
086				Other chronic lower respiratory diseases (J44,J47)



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Table 5.1 —	· 113 Cause	s of Death	– Continued	trom	previous page

ST: 1 = Subtotal Limited — Sex: 1 = Males; 2 = Females Limited — Age: 1 = 5 years & over; 2 = 10-54 years; 3 = 28 days & over; 4 =Under 1 year; 5 = 1-4 years; 6 = 1 year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Lim	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
087				Pneumoconioses and chemical effects (J60-J66,J68)
088				Pneumonitis due to solids and liquids (J69)
089				Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)
090				Peptic ulcer (K25-K28)
091				Diseases of appendix (K35-K38)
092				Hernia (K40-K46)
093	1			Chronic liver disease and cirrhosis (K70,K73-K74)
094	-			Alcoholic liver disease (K70)
095				Other chronic liver disease and cirrhosis (K73-K74)
096				Cholelithiasis and other disorders of gallbladder (K80-K82)
097	1			Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)
098	-			Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)
099				Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and
055				renal sclerosis unspecified (N02-N03,N05-N07,N26)
100				Renal failure (N17-N19)
100				Other disorders of kidney (N25,N27)
101				Infections of kidney (N10-N12,N13.6,N15.1)
102		1		Hyperplasia of prostate (N40)
105		2		Inflammatory diseases of female pelvic organs (N70-N76)
104	1	2	7	Pregnancy, childbirth and the puerperium (O00-O99)
105	1	2	7	Pregnancy with abortive outcome (000-007)
100		2	7	Other complications of pregnancy, childbirth and the puerperium (O10-O99)
107		2	'	Certain conditions originating in the perinatal period (P00-P96)
100				Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
110				Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
110				All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12,G23-G25, G31-H93,K00-
111				K22,K29-K31,K50-K66,K71-K72,K75-K76,K83-M99,N13.0-N13.5, N13.7-N13.9,N14,N15.0,N15.8-
				N15.9,N20-N23,N28-N39,N41-N64,N80-N98)
112	1			Accidents (unintentional injuries) (V01-X59,Y85-Y86)
113	1			Transport accidents (V01-V99,Y85)
114	-			Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-
				V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0-
				V88.8, V89.0, V89.2)
115				Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-
115				V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-
				V82.9,V87.9,V88.9,V89.1,V89.3,V89.9)
116				Water, air and space, and other and unspecified transport accidents and their sequelae
110				(V90-V99,Y85)
117	1			Nontransport accidents (W00-X59,Y86)
118	-			Falls (W00-W19)
110				Accidental discharge of firearms (W32-W34)
120				Accidental drowning and submersion (W65-W74)
120				Accidental drowning and submersion (W03-W14) Accidental exposure to smoke, fire and flames (X00-X09)
121				Accidental exposure to shoke, the and names (X00-X09) Accidental poisoning and exposure to noxious substances (X40-X49)
122				Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-
123				W64,W75-W99,X10-X39,X50-X59,Y86)
124	1		1	Intentional self-harm (suicide) (X60-X84,Y87.0)
124	-		1	Intentional self-harm (suicide) by discharge of firearms (X72-X74)
120			-	Continued on next name



	Table 5.1 — 113 Causes of Death – Continued from previous page
ST: 1 = Subtotal	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over; 4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Lim	ited	
Recode	ST	Sex	Age	Cause Title and Codes Included
126			1	Intentional self-harm (suicide) by other and unspecified means and their sequelae (X60-X71,X75-X84,Y87.0)
127	1			Assault (homicide) (X85-Y09,Y87.1)
128				Assault (homicide) by discharge of firearms (X93-X95)
129				Assault (homicide) by other and unspecified means and their sequelae (X85-X92,X96- Y09,Y87.1)
130				Legal intervention (Y35,Y89.0)
131	1			Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)
132				Discharge of firearms, undetermined intent (Y22-Y24)
133				Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)
134				Operations of war and their sequelae (Y36,Y89.1)
135				Complications of medical and surgical care (Y40-Y84,Y88)



282 Causes of Death, 9th Revision: Underlying Cause of Death Re-5.2 code Adapted for Use by DVS, Deaths 1979-1998

Table 5.2: 282 Causes of Death, 9th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-1998

				Limited — Age: $1 = 5$ years & over; $2 = 10$ -54 years; $3 = 28$ days & over
				***** Cause Subtotals are not identified in this file *****
		Lim	ited	
Recode	ST	Sex	Age	Cause Title and Codes Included
00100	1			I. Infectious and parasitic diseases (001-139)
00200	1			Intestinal infectious diseases (001-009)
00300				Cholera and typhoid and paratyphoid fevers (001-002)
00400				Shigellosis (004)
00500				Other salmonella infections and other food poisoning (bacterial) (003, 005)
00600				Amebiasis (006)
00700				Intestinal infections due to other specified organisms (007-008)
00800				Ill-defined intestinal infections (009)
00900	1			Tuberculosis (010-018)
01000	-			Tuberculosis of respiratory system (010-012)
01100				Other tuberculosis (013-018)
01200	1			Zoonotic and other bacterial diseases (020-041)
01300	1			Brucellosis (023)
01400				Diphtheria (032)
				Whooping cough (033)
01500				
01600				Streptococcal sore throat, scarlatina, and erysipelas (034-035)
01700				Meningococcal infection (036)
01800			2	Tetanus (037)
01900			3	Septicemia (038)
02000	_			All other bacterial diseases (020-022,024-031,039-041)
02100	1			Viral diseases (*042-*044,045-079)
02200				Acute poliomyelitis (045)
02300				Smallpox (050)
02400				Measles (055)
02500				Rubella (056)
02600				Arthropod-borne encephalitis (062-064)
02700				Viral hepatitis (070)
02800				Other viral diseases (*042-*044,046-049,051-054,057-061,065-066,071-079)
02900	1			Rickettsioses and other arthropod-borne diseases (080-088)
03000				Typhus and other rickettsioses (080-083)
03100				Malaria (084)
03200				All other arthropod-borne diseases (085-088)
03300	1			Syphilis and other venereal diseases (090-099)
03400	1			Syphilis (090-097)
03500				Cardiovascular syphilis (093)
03600				Neurosyphilis (094)
03700				All other syphilis (090-091,095-097)
03800				Gonococcal infections (098)
03900				Other venereal diseases (099)
04000	1			Other infectious and parasitic diseases and late effects of infectious and parasitic diseases (100- 139)
04100				Mycoses (110-118)
04200				Helminthiases (120-129)



			Table 5.2 — 282 Causes of Death – Continued from previous page
	ST:	1 = Subtot	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over
			***** Cause Subtotals are not identified in this file *****
		Limited	
Recode	ST	Sex Age	e Cause Title and Codes Included
04300			Late effects of tuberculosis (137)
04400			Late effects of acute poliomyelitis (138)
04500			All other infectious and parasitic diseases and late effects of other infectious and parasitic diseases (100-104,130-136,139)
04600	1		II. Neoplasms (140-239)
04700	1		Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
04800	1		Malignant neoplasms of lip, oral cavity, and pharynx (140-149)
04900			Of lip (140)
05000			Of tongue (141)
05100			Of pharynx (146-149.0)
05200			Of other and ill-defined sites within the lip, oral cavity, and pharynx (142-145,149.1-
05200	1		149.9)
05300 05400	1		Malignant neoplasms of digestive organs and peritoneum (150-159) Of esophagus (150)
05500			Of stomach (151)
05600			Of small intestine, including duodenum (152)
05700	1		Of colon (153)
05800	1		Hepatic and splenic flexures and transverse colon (153.0-153.1,153.7)
05900			Descending colon (153.2)
06000			Sigmoid colon (153.3)
06100			Cecum, appendix, and ascending colon (153.4-153.6)
06200			Other and colon, unspecified (153.8-153.9)
06300			Of rectum, rectosigmoid junction, and anus (154)
06400	1		Of liver and intrahepatic bile ducts (155)
06500			Liver, primary (155.0)
06600			Intrahepatic bile ducts (155.1)
06700			Liver, not specified as primary or secondary (155.2)
06800			Of gallbladder and extrahepatic bile ducts (156)
06900			Of pancreas (157)
07000			Of retroperitoneum, peritoneum, and other and ill-defined sites within the digestive
07100	-		organs and peritoneum (158-159)
07100	1		Malignant neoplasms of respiratory and intrathoracic organs (160-165)
07200			Of larynx (161) Of trachea, bronchus, and lung (162)
07300 07400			Of all other and ill-defined sites within the respiratory system and intrathoracic organs
07400			(160,163-165)
07500	1		Malignant neoplasms of bone, connective tissue, skin, and breast (170-175)
07600	-		Of bone and articular cartilage (170)
07700			Of connective and other soft tissue (171)
07800			Melanoma of skin (172)
07900			Other malignant neoplasms of skin (173)
08000		2	Of female breast (174)
08100		1	Of male breast (175)
08200	1		Malignant neoplasms of genital organs (179-187)
08300		2	Of cervix uteri (180)
08400		2	Of other parts of uterus (179,181-182)
08500		2	Of ovary and other uterine adnexa (183)
08600		2	Of other and unspecified female genital organs (184)
08700		1	Of prostate (185)
08800		1	Of testis (186)



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Table 5.2 —	282 (auses	of Death -	(ontinued	trom	nrevious nage	
	202 Causes	or Death	continucu		previous page	

ST: 1 =Subtotal Limited — Sex: 1 =Males; 2 =Females

Limited — Age: 1 = 5 years & over; 2 = 10-54 years; 3 = 28 days & over

***** Cause Subtotals are not identified in this file *****

		Limit	ed
Recode	ST		Age Cause Title and Codes Included
08900		1	Of penis and other male genital organs (187)
09000	1		Malignant neoplasms of urinary organs (188-189)
09100			Of bladder (188)
09200			Of kidney and other and unspecified urinary organs (189)
09300	1		Malignant neoplasms of other and unspecified sites (190-199)
09400			Of eye (190)
09500			Of brain (191)
09600			Of other and unspecified parts of nervous system (192)
09700			Of thyroid gland and other endocrine glands and related structures (193-194)
09800			Of all other and unspecified sites (195-199)
09900	1		Malignant neoplasms of lymphatic and hematopoietic tissues (200-208)
10000	-		Lymphosarcoma and reticulosarcoma (200)
10100			Hodgkin's disease (201)
10200			Other malignant neoplasms of lymphoid and histiocytic tissue (202)
10300			Multiple myeloma and immunoproliferative neoplasms (203)
10400	1		Leukemia (204–208)
10500	-		Lymphoid leukemia (204)
10600			Myeloid leukemia (205)
10700			Monocytic leukemia (206)
10800			Other and unspecified leukemia (207-208)
10900	1		Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified
10500	-		nature (210-239)
11000	1		Benign neoplasms (210-229)
11100		2	Of female genital organs (218-221)
11200			Of eye, brain, and other parts of nervous system (224-225)
11300			Of all other and unspecified sites (210-217,222-223,226-229)
11400	1		Carcinoma in situ (230-234)
11500			Of breast and genitourinary system (233)
11600			Of all other and unspecified sites (230-232,234)
11700			Neoplasms of uncertain behavior (235-238)
11800			Neoplasms of unspecified nature (239)
11900	1		III. Endocrine, nutritional, and metabolic diseases and immunity
			disorders (240-279)
12000	1		Endocrine and metabolic diseases and immunity disorders (240-259,270-279)
12100			Disorders of thyroid gland (240-246)
12200			Diabetes mellitus (250)
12300			Disorders of the pituitary gland and its hypothalamic control (253)
12400			Diseases of thymus gland (254)
12500			Disorders of adrenal glands (255)
12600			Cystic fibrosis (277.0)
12700			Obesity (278.0)
12800			All other endocrine and metabolic diseases and immunity disorders (251-252,256-259,270-
10000	-		276,277.1-277.9,278.1-279)
12900	1		Nutritional deficiencies (260-269)
13000			Nutritional marasmus (261)
13100			Other protein-calorie malnutrition (262-263)
13200			All other nutritional deficiencies (260,264-269)
13300	1		IV. Diseases of blood and blood-forming organs (280-289)
13400	1		Anemias (280-285)



				Table 5.2 — 282 Causes of Death – Continued from previous page
	ST:	1 = Sul	btotal	Limited — Sex: $1 =$ Males; $2 =$ Females
				Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over
				***** Cause Subtotals are not identified in this file *****
Recode	ST	Limit Sex		Cause Title and Codes Included
	_		0	
13500				Deficiency anemias (280-281)
13600				Hemolytic anemias (282-283)
13700				Aplastic anemia (284) Other and unserviced enemies (285)
13800				Other and unspecified anemias (285)
13900				Purpura and other hemorrhagic conditions (287)
14000				All other diseases of blood and blood-forming organs (286,288-289)
14100	1			V. Mental disorders (290-319)
14200				Senile and presenile organic psychotic conditions (290)
14300				Alcoholic psychoses (291)
14400				All other psychoses (292-299)
14500				Alcohol dependence syndrome (303)
14600				Drug dependence (304)
14700				Other neurotic, personality, and nonpsychotic mental disorders (300-302,305-316)
14800				Mental retardation (317-319)
14900	1			VI. Diseases of the nervous system and sense organs (320-389)
15000	1			Diseases of the nervous system (320-359)
15100				Meningitis (320-322)
15200				Parkinson's disease (332)
15300				Other hereditary and degenerative diseases of the central nervous system (330-331,333-337)
15400				Multiple sclerosis (340)
15500				Infantile cerebral palsy (343)
15600				Epilepsy (345)
15700				Other diseases of the nervous system (323-326,341-342,344,346-359)
15800				Disorders of the eye and adnexa (360-379)
15900				Diseases of the ear and mastoid process (380-389)
16000	1			VII. Diseases of the circulatory system (390-459)
16100	1			Rheumatic fever and rheumatic heart disease (390-398)
16200	1			Acute rheumatic fever (390-392)
16300	1			Chronic rheumatic heart disease (393-398)
16400	-			Diseases of mitral valve (394)
16500				Diseases of aortic valve (395)
16600				Diseases of mitral and aortic valves (396)
16700				All other chronic rheumatic heart disease (393,397-398)
16800	1			Hypertensive disease (401-404)
16900				Essential hypertension (401)
17000				Hypertensive heart disease (402)
17100				Hypertensive renal disease (403)
17200				Hypertensive heart and renal disease (404)
17300	1			Ischemic heart disease (410-414)
17400				Acute myocardial infarction (410)
17500				Other acute and subacute forms of ischemic heart disease (411)
17600				Angina pectoris (413)
17700				Old myocardial infarction and other forms of chronic ischemic heart disease (412,414)
17800				Diseases of pulmonary circulation (415-417)
17900	1			Other forms of heart disease (420-429)
18000				Acute and subacute endocarditis (421)
18100				Acute pericarditis, acute myocarditis, and other diseases of pericardium (420,422-423)
18200	1			Other diseases of endocardium (424)

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Table 5.2 —	282 (auses	: ot Death -	- (ontinued	trom	nrevious nage
	202 Causes	Death	continucu		orcerous page

***** Cause Subtotals are not identified in this file *****

		Limited	
Recode	ST	Sex Age	Cause Title and Codes Included
18300			Mitral valve disorders (424.0)
18400			Aortic valve disorders (424.1)
18500			All other diseases of endocardium (424.2-424.9)
18600			Heart failure (428)
18700			Myocarditis, unspecified and myocardial degeneration (429.0-429.1)
18800			All other and ill-defined forms of heart disease (425-427,429.2-429.9)
18900	1		Cerebrovascular diseases (430-438)
19000			Subarachnoid hemorrhage (430)
19100			Intracerebral and other intracranial hemorrhage (431-432)
19200			Occlusion and stenosis of precerebral arteries (433)
19300			Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0,434.9)
19400			Cerebral embolism (434.1)
19500			Acute but ill-defined cerebrovascular disease (436)
19600			Other and late effects of cerebrovascular diseases (435,437-438)
19700	1		Diseases of arteries, arterioles, and capillaries (440-448)
19800			Atherosclerosis (440)
19900			Aortic aneurysm (441)
20000			All other diseases of arteries, arterioles, and capillaries (442-448)
20100	1		Diseases of veins and lymphatics, and other diseases of circulatory system (451-459)
20200			Phlebitis, thrombophlebitis, and venous embolism and thrombosis (451-453)
20300			Other diseases of veins and lymphatics and all other diseases of circulatory system (454-459)
20400	1		VIII Discossos of the respiratory system (460 510)
20400	1 1		VIII. Diseases of the respiratory system (460-519) Diseases of the upper respiratory tract (460-465,470-478)
20600	1		Acute upper respiratory infections (460-465)
20700			Other diseases of upper respiratory tract (470-478)
20800	1		Other diseases of the respiratory system (466,480-519)
20900	1		Acute bronchitis and bronchiolitis (466)
21000	1		Pneumonia (480-486)
21000	1		Viral pneumonia (480)
21200			Pneumococcal and other bacterial pneumonia (481-482)
21200			Bronchopneumonia, organism unspecified (485)
21300			Pneumonia due to other and unspecified organism (483,486)
21500			Influenza (487)
21600	1		Chronic obstructive pulmonary diseases and allied conditions (490-496)
21700	1		Bronchitis, chronic and unspecified, emphysema and asthma (490-493)
21800	1		Bronchitis, not specified as acute or chronic (490)
21000			Chronic bronchitis (491)
22000			Emphysema (492)
22100			Asthma (493)
22200			Bronchiectasis and extrinsic allergic alveolitis (494-495)
22300			Chronic airways obstruction, not elsewhere classified (496)
22400			Pneumoconioses and other lung diseases due to external agents (500-508)
22400			Empyema and abscess of lung and mediastinum (510,513)
22500			Pleurisy (511)
22700			All other diseases of respiratory system (512,514-519)
22800	1		IX. Diseases of the digestive system (520-579)
22800	T		Diseases of oral cavity, salivary glands, and jaws (520-529)
22900	1		Diseases of other parts of the digestive system (530-579)
23000	1		Ulcer of stomach and duodenum (531-533)



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Table 5.2 — 2	282 (auses	of Death - (ontinued trom	nrevious nage
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***** Cause Subtotals are not identified in this file *****

Limited					
Recode	ST	Sex	Age	Cause Title and Codes Included	
23200				Gastric ulcer (531)	
23300				Duodenal ulcer (532)	
23400				Peptic ulcer, site unspecified (533)	
23500				Gastritis and duodenitis (535)	
23600				Appendicitis (540-543)	
23700				Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-	
				553,560)	
23800				Regional enteritis and idiopathic proctocolitis (555-556)	
23900				All other noninfective gastroenteritis and colitis (557-558)	
24000				Diverticula of intestine (562)	
24100	1			Chronic liver disease and cirrhosis (571)	
24200				Chronic liver disease and cirrhosis, specified as alcoholic (571.0-571.3)	
24300				Chronic hepatitis and biliary cirrhosis (571.4,571.6)	
24400				Cirrhosis of liver and other and unspecified chronic liver disease without mention of	
				alcohol (571.5,571.8-571.9)	
24500				Cholelithiasis and other disorders of gallbladder (574-575)	
24600				All other diseases of digestive system (530,534,536-537,564-570,572-573,576-579)	
24700	1			X. Diseases of the genitourinary system (580-629)	
24800	1			Diseases of urinary system (580-599)	
24900	1			Nephritis, nephrotic syndrome, and nephrosis (580-589)	
25000				Acute glomerulonephritis (580)	
25100				Nephrotic syndrome (581)	
25200				Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic,	
				and renal sclerosis, unspecified (582-583,587)	
25300				Renal failure, disorders resulting from impaired renal function, and small kidney of un-	
				known cause (584-586,588-589)	
25400				Infections of kidney (590)	
25500				Urinary calculus (592,594)	
25600				All other diseases of urinary system (591,593,595-599)	
25700	1	1		Diseases of male genital organs (600-608)	
25800		1		Hyperplasia of prostate (600)	
25900		1		Other diseases of male genital organs (601-608)	
26000				Disorders of breast (610-611)	
26100		2		Diseases of female genital organs except breast (614-629)	
26200	1	2	2	XI. Complications of pregnancy, childbirth, and the puerperium (630-	
20200	T	2	2	676)	
26300	1	2	2	Pregnancy with abortive outcome (630-638)	
26400	-	2	2	Ectopic pregnancy (633)	
26500		2	2	Spontaneous abortion (634)	
26600		2	2	Legally induced abortion (635)	
26700		2	2	Illegally induced abortion (636)	
26800		2	2	Other pregnancy with abortive outcome (630-632,637-638)	
26900	1	2	2	Direct obstetric causes (640-646,651-676)	
20900	T	2	2	Hemorrhage of pregnancy and childbirth (640-641,666)	
27000		2	2	Toxemia of pregnancy (642.4-642.9,643)	
27200		2	2	Obstructed labor (660)	
27200		2	2	Complications of the puerperium (670-676)	
27300		2	2	Other direct obstetric causes (642.0-642.3,644-646,651-659,661-665,667-669)	
27500		2	2	Indirect obstetric causes (647-648)	
		-	-		



	ST:	1 = Su	btotal	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 =$ 5 years & over; $2 =$ 10-54 years; $3 =$ 28 days & over
				***** Cause Subtotals are not identified in this file *****
		Lim		
Recode	ST	Sex	Age	Cause Title and Codes Included
27600		2	2	Delivery in a completely normal case (650)
27700	1			XII. Diseases of the skin and subcutaneous tissue (680-709)
27800				Infections of skin and subcutaneous tissue (680-686)
27900				All other diseases of skin and subcutaneous tissue (690-709)
28000	1			XIII. Diseases of the musculoskeletal system and connective tissue
				(710-739)
28100				Rheumatoid arthritis and other inflammatory polyarthropathies (714)
28200				Other arthropathies and related disorders (710-712,715-719)
28300				Dorsopathies (720-724)
28400				Rheumatism, excluding the back (725-729)
28500				Osteopathies, chondropathies, and acquired musculoskeletal deformities (730-739)
28600	1			XIV. Congenital anomalies (740-759)
28700				Spina bifida (741)
28800				All other congenital anomalies of nervous system (740,742)
28900				Congenital anomalies of heart (745-746)
29000				Other congenital anomalies of circulatory system (747)
29100				All other congenital anomalies (743-744,748-759)
29200	1			XV. Certain conditions originating in the perinatal period (760-77
29300				Birth trauma (767)
29400				Intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (768-769)
29500				Other conditions originating in the perinatal period (760-766,770-779)
29600	1			XVI. Symptoms, signs, and ill-defined conditions (780-799)
29700				Senility without mention of psychosis (797)
29800				Symptoms, signs, and other ill-defined conditions (780-796,798-799)
29900	1			Supplementary classification of external causes of injury and poisoning
				(E800-E999)
30000	1			Accidents and adverse effects (E800-E949)
30100	1			Transport accidents (E800-E848)
30200				Railway accidents (E800-E807)
30300	1			Motor vehicle accidents (E810-E825)
30400	1			Motor vehicle traffic accidents (E810-E819)
30500				Involving collision with train (E810)
30600				Involving collision with another motor vehicle (E811-E812)
30700				Involving collision with pedestrian (E814)
30800				Involving collision with other vehicle or object (E813,E815)
30900				Not involving collision on highway (E816-E818)
31000				Motor vehicle traffic accident of unspecified nature (E819)
31100				Motor vehicle nontraffic accidents (E820-E825)
31200				Other road vehicle accidents (E826-E829)
31300				Water transport accidents (E830-E838)
31400				Air and space transport accidents (E840-E845)
31500				Vehicle accidents not elsewhere classifiable (E846-E848)
31600	1			Accidental poisoning (E850-E869)
31700	-			Accidental poisoning (2000-2009) Accidental poisoning by drugs, medicaments, and biologicals (E850-E858)
01100				
31800				Accidental poisoning by other solid or liquid substances (E860-E866)



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	202 Causes	or Death	continucu		previous page

***** Cause Subtotals are not identified in this file *****

Recode ST Sex Age Cause Title and Codes Included 32000 Misadventures during medical care, abnormal reactions, and late complications (E 32100 1 Accidental falls (E880-E888) 32200 Fall from one level to another (E880-E884)	870-E879)
32100 1 Accidental falls (E880-E888)	870-E879)
32200 Fall from one level to another (E880-E884)	
32300 Fall on same level (E885-E886)	
32400 Fracture, cause unspecified, and other and unspecified falls (E887-E888)	
32500 Accidents caused by fire and flames (E890-E899)	
32600 1 Other accidents, including late effects (E900-E929)	
32700 Lightning (E907)	
32800 Accidental drowning and submersion (E910)	
32900 Inhalation and ingestion of food or other object causing obstruction of respir	atory tract
or suffocation (E911-E912)	
33000 Accident caused by handgun (E922.0)	
33100 Accidents caused by all other and unspecified firearms (E922.1-E922.9)	
33200 Accident caused by explosive material (E923)	
33300 Accident caused by hot substance or object, caustic or corrosive material, ste	am, and
exposure to radiation (E924,E926)	
33400 Accident caused by electric current (E925)	
33500 All other accidents and late effects of accidental injury (E900-E906,E908-E90)9,E913-
E921,E927-E929)	
33600 Drugs, medicaments, and biological substances causing adverse effects in therape	utic use
(E930-E949)	
33700 1 1 Suicide (E950-E959)	
33800 1 Suicide by drugs, medicaments, and biologicals (E950.0-E950.5)	
33900 1 Suicide by other solid or liquid substances (E950.6-E950.9)	
34000 1 Suicide by gases and vapors (E951-E952)	
34100 1 Suicide by hanging, strangulation, and suffocation (E953)	
34200 1 Suicide by handgun (E955.0)	
34300 1 Suicide by all other and unspecified firearms (E955.1-E955.4)	
34400 1 Suicide by all other means and late effects of self-inflicted injury (E954,E955.5-E9	59)
34500 1 Homicide and legal intervention (E960-E978)	
34600 Assault by handgun (E965.0)	
34700 Assault by all other and unspecified firearms (E965.1-E965.4)	
34800 Assault by cutting and piercing instrument (E966)	
34900 Assault by all other means and late effects of injury purposely inflicted by other p	erson
(E960-E964,E965.5-E965.9,E967-E969)	
35000 Legal execution (E978)	
35100 Other legal intervention and late effects of injury due to legal intervention (E970-	E977)
35200 1 Injury undetermined whether accidentally or purposely inflicted (E980-E989)	
35300 From poisoning by drugs, medicaments, and biologicals (E980.0-E980.5)	
35400 From poisoning by other solid or liquid substances (E980.6-E980.9)	
35500 From injury by handgun (E985.0)	
35600 From injury by all other and unspecified firearms (E985.1-E985.4)	
35700 From injury by all other means and late effects of injury, undetermined whether a	ccidentally
or purposely inflicted (E981-E984,E985.5-E989)	
35800 Injury resulting from operations of war (E990-E999)	



5.3 72 Causes of Death, 9th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-1998

Table 5.3: 72 Causes of Death, 9^{th} Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-1998

	ST: 1 = Subtotal		Limited — Sex: $1 = Males$; $2 = Females$
			Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over
			***** Cause Subtotals are not identified in this file *****
		Limited	
Recode	ST	Sex Age	Cause Title and Codes Included
010			Shigellosis and amebiasis (004,006)
020			Certain other intestinal infections (007-009)
030	1		Tuberculosis (010-018)
040			Tuberculosis of respiratory system (010-012)
050			Other tuberculosis (013-018)
060			Whooping cough (033)
070			Streptococcal sore throat, scarlatina, and erysipelas (034-035)
080			Meningococcal infection (036)
090		3	Septicemia (038)
100			Acute poliomyelitis (045)
110			Measles (055)
120			Viral hepatitis (070)
130			Syphilis (090-097)
140			All other infectious and parasitic diseases (001-003,005,020-032, 037,039-041,*042-*044,046-
			054,056-066,071-088,098-139)
150	1		Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
160	-		Malignant neoplasms of lip, oral cavity, and pharynx (140-149)
170			Malignant neoplasms of digestive organs and peritoneum (150-159)
180			Malignant neoplasms of respiratory and intrathoracic organs (160-165)
190			Malignant neoplasm of breast (174-175)
200			Malignant neoplasms of genital organs (179-187)
210			Malignant neoplasms of grintar organs (188-189)
220			Malignant neoplasms of all other and unspecified sites (170-173,190-199)
230			Leukemia (204-208)
240			Other malignant neoplasms of lymphatic and hematopoietic tissues (200-203)
250			Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified
230			nature (210-239)
260			Diabetes mellitus (250)
270			Nutritional deficiencies (260-269)
280			Anemias (280-285)
290			Meningitis (320-322)
300	1		Major cardiovascular diseases (390-448)
310	1		Diseases of heart (390-398,402,404-429)
320			Rheumatic fever and rheumatic heart disease (390-398)
330			Hypertensive heart disease (402)
340			Hypertensive heart and renal disease (404)
350	1		Ischemic heart disease (410-414)
360			Acute myocardial infarction (410)
370			Other acute and subacute forms of ischemic heart disease (411)
380			Angina pectoris (413)
390			Old myocardial infarction and other forms of chronic ischemic heart disease
			(412,414)
400			Other diseases of endocardium (424)
			Continued on next page

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Lable 5.3 —	72 Causes of Death – Continued from pre	VIOUS DAGE
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***** Cause Subtotals are not identified in this file *****

		Lim	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
410				All other forms of heart disease (415-423,425-429)
420				Hypertension with or without renal disease (401,403)
430	1			Cerebrovascular diseases (430-438)
440				Intracerebral and other intracranial hemorrhage (431-432)
450				Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0,434.9)
460				Cerebral embolism (434.1)
470				All other and late effects of cerebrovascular diseases (430,433,435-438)
480				Atherosclerosis (440)
490				Other diseases of arteries, arterioles, and capillaries (441-448)
500				Acute bronchitis and bronchiolitis (466)
510	1			Pneumonia and influenza (480-487)
520				Pneumonia (480-486)
530				Influenza (487)
540	1			Chronic obstructive pulmonary diseases and allied conditions (490-496)
550				Bronchitis, chronic and unspecified (490-491)
560				Emphysema (492)
570				Asthma (493)
580				Other chronic obstructive pulmonary diseases and allied conditions (494-496)
590				Ulcer of stomach and duodenum (531-533)
600				Appendicitis (540-543)
610				Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553,560)
620				Chronic liver disease and cirrhosis (571)
630				Cholelithiasis and other disorders of gallbladder (574-575)
640	1			Nephritis, nephrotic syndrome, and nephrosis (580-589)
650				Acute glomerulonephritis and nephrotic syndrome (580-581)
660				Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (582-583,587)
670				Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (584-586,588-589)
680				Infections of kidney (590)
690		1		Hyperplasia of prostate (600)
700	1	2	2	Complications of pregnancy, childbirth, and the puerperium (630-676)
710		2	2	Pregnancy with abortive outcome (630-638)
720		2	2	Other complications of pregnancy, childbirth, and the puerperium (640-676)
730				Congenital anomalies (740-759)
740	1			Certain conditions originating in the perinatal period (760-779)
750				Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome (767-769)
760				Other conditions originating in the perinatal period (760-766,770-779)
770				Symptoms, signs, and ill-defined conditions (780-799)
780				All other diseases (Residual)
790	1			Accidents and adverse effects (E800-E949)
800				Motor vehicle accidents (E810-E825)
810				All other accidents and adverse effects (E800-E807,E826-E949)
820			1	Suicide (E950-E959)
830				Homicide and legal intervention (E960-E978)
840				All other external causes (E980-E999)



5.4 34 Causes of Death, 9th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-1998

Table 5.4: 34 Causes of Death, 9th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1979-1998

_	DVS, Deaths 1979-1998					
		ST:	$1 = S_1$	ubtotal	Limited — Sex: $1 =$ Males; $2 =$ Females	
					Limited — Age: $1=5$ years & over; $2=10$ -54 years; $3=28$ days & over	
					***** Cause Subtotals are not identified in this file *****	
			Lim	nited		
	Recode	ST	Sex	Age	Cause Title and Codes Included	
_	010				Tuberculosis (010-018)	
	020				Syphilis (090-097)	
	030				Residual of infectious and parasitic diseases (001-009,020-041,*042-*044,045-088,098-139)	
	040	1			Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)	
	050				Malignant neoplasms of digestive organs and peritoneum (150-159)	
	060				Malignant neoplasms of respiratory and intrathoracic organs (160-165)	
	070				Malignant neoplasm of breast (174-175)	
	080				Malignant neoplasms of genital organs (179-187)	
	090				Malignant neoplasms of urinary organs (188-189)	
	100				Leukemia (204-208)	
	110				Other malignant neoplasms (140-149,170-173,190-203)	
	120				Diabetes mellitus (250)	
	130	1			Major cardiovascular diseases (390-448)	
	140	1			Diseases of heart (390-398,402,404-429)	
	150				Rheumatic fever and rheumatic heart disease (390-398)	
	160				Hypertensive heart disease with or without renal disease (402,404)	
	170				Ischemic heart disease (410-414)	
	180				Other heart diseases (415-429)	
	190				Hypertension with or without renal disease (401,403)	
	200				Cerebrovascular diseases (430-438)	
	210				Atherosclerosis (440)	
	220				Other diseases of arteries, arterioles, and capillaries (441-448)	
	230				Pneumonia and influenza (480-487)	
	240				Chronic obstructive pulmonary diseases and allied conditions (490-496)	
	250				Ulcer of stomach and duodenum (531-533)	
	260				Chronic liver disease and cirrhosis (571)	
	270				Nephritis, nephrotic syndrome, and nephrosis (580-589)	
	280		2	2	Complications of pregnancy, childbirth, and the puerperium (630-676)	
	290				Congenital anomalies (740-759)	
	300				Certain conditions originating in the perinatal period (760-779)	
	310				Symptoms, signs, and ill-defined conditions (780-799)	
	320				All other diseases (Residual)	
	330				Motor vehicle accidents (E810-E825)	
	340				All other accidents and adverse effects (E800-E807,E826-E949)	
	350			1	Suicide (E950-E959)	
	360				Homicide and legal intervention (E960-E978)	
	370				All other external causes (E980-E999)	



5.5 358 Causes of Death, 10th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1999-2019

Table 5.5: 358 Causes of Death, 10th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1999-2019

DVS, Deaths 1999-2019						
	ST.	1 = Subtotal	Limited — Sex: $1 = Males$; $2 = Females$			
			Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;			
			4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over;			
			7 = 10 years and over			
			***** Cause Subtotals are not identified in this file *****			
		Limited				
Recode	ST	Sex Age	Cause Title and Codes Included			
001	1		I. Certain infectious and parasitic diseases (A00-B99)			
001	1		Intestinal infectious diseases (A00-A09)			
002	T		Cholera (A00)			
003	1		Other intestinal infectious diseases (A01-A08)			
004 005	T					
005			Typhoid fever (A01.0) Paraturbaid favors and other calmonally infections (A01.1, A01.4, A02)			
000			Paratyphoid fevers and other salmonella infections (A01.1-A01.4,A02)			
007			Shigellosis (A03) Other bacterial food-borne intoxications (A05)			
009 010			Amebiasis (A06)			
010			Intestinal infections due to other specified organisms (A04,A07-A08) Diarrhea and gastroenteritis of infectious origin (A09)			
011	1					
	1		Tuberculosis (A16-A19)			
013			Respiratory tuberculosis (A16)			
014 015	1		Other tuberculosis (A17-A19)			
015	1		Zoonotic and other bacterial diseases (A20-A49)			
016			Plague (A20) Brucellagie (A22)			
017			Brucellosis (A23)			
018			Tetanus (A33-A35)			
019			Diptheria (A36)			
020 021			Whooping cough (A37) Scarlet forer and environment (A38, A46)			
021			Scarlet fever and erysipelas (A38,A46)			
		2	Meningococcal infection (A39)			
023 024		3	Septicemia (A40-A41) Other zoonotic and bacterial diseases (A21-A22,A24-A32,A42-A44, A48-A49)			
024 025	1					
025 026	1 1		Infections with a predominately sexual mode of transmission (A50-A64) Syphilis (A50-A53)			
020 027	T		Cardiovascular syphilis (A52.0)			
027						
028			Neurosyphilis (A52.1-A52.3) Other and unspecified syphilis (A50-A51,A52.7-A52.9,A53)			
029			Gonococcal infection (A54)			
031			Other infections with a predominately sexual mode of transmission (A55-A64)			
031	1		Other infections caused by spirochetes, chlamydia or rickettsia (A65-A79)			
032	1		Lyme disease (A69.2)			
033			Typhus fever (A75)			
034 035			All other infections caused by spirochetes, chlamydia or rickettsia (A65-A68,A69.0-			
000			A69.1,A69.8-A69.9,A70-A74,A77-A79)			
036	1		Viral diseases (A80-B34)			
030	т		Acute poliomyelitis (A80)			
037						
030			Rabies (A82)			

Arthropod-borne viral encephalitis (A83-A84,A85.2)

Yellow fever (A95)

039 040



			Table 5.5 — 358 Causes of Death – Continued from previous page
	ST:	1 = Subtotal	Limited — Sex: $1 =$ Males; $2 =$ Females
			Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;
			4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over;
			7 = 10 years and over
			***** Cause Subtotals are not identified in this file *****
		Limited	
Recode	ST	Sex Age	Cause Title and Codes Included
041			Other and unspecified arthropod-borne viral and hemorrhagic fevers (A90-A94,A96-A99)
042			Herpesviral (herpes simplex) infections (B00)
043			Zoster (herpes zoster) (B02)
044			Smallpox (B03)
045			Measles (B05)
046			Rubella (German measles) (B06)
047			Viral hepatitis (B15-B19)
048	1		Human immunodeficiency virus (HIV) disease (B20-B24)
049			Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic dis-
			eases (B20)
050			Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms (B21)
051			Human immunodeficiency virus (HIV) disease resulting in other specified diseases (B22)
052			Human immunodeficiency virus (HIV) disease resulting in other conditions (B23)
053			Unspecified human immunodeficiency virus (HIV) disease (B24)
054			All other and unspecified viral diseases (A81,A85.0-A85.1,A85.8, A86-A89,B01,B04,B07-B09,B25-
	_		B34)
055	1		Other and unspecified infectious and parasitic diseases and their sequelae (B35-B99)
056			Mycoses (B35-B49)
057	1		Protozoal diseases (B50-B64)
058			Malaria (B50-B54)
059			Leishmaniasis (B55) Turung and a B55
060			Trypanosomiasis (B56-B57)
061			Pneumocystosis (B59) Other and unserviced existenced discourse (DE0 D60 D64)
062 063	1		Other and unspecified protozoal diseases (B58,B60-B64)
064	T		Helminthiases (B65-B83) Schistosomiasis (bilharziasis) (B65)
065			Other and unspecified helminthiases (B66-B83)
066		6	Sequelae of tuberculosis (B90)
067		6	Sequelae of poliomyelitis (B91)
068		0	All other and unspecified infectious and parasitic diseases and their sequelae (B85-B89,B92-
000			B99)
069	1		II. Neoplasms (C00-D48)
070	1		Malignant neoplasms (C00-C97)
071	1		Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
072			Of lip (C00)
073			Of tongue (C01-C02)
074			Of pharynx (C10-C13,C14.0)
075			Of other and unspecified sites within the lip, oral cavity and pharynx (C03-C09,C14.2-
			C14.8)
076	1		Malignant neoplasms of digestive organs (C15-C26)
077			Of esophagus (C15)
078			Of stomach (C16)
079			Of small intestine (C17)
080			Of colon, rectum and anus (C18-C21)
081			Colon (C18)
082			Rectosigmoid junction and rectum (C19-C20)
083	-		Anus and anus canal (C21)
084	1		Of liver and intrahepatic bile ducts (C22)
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Table 5.5 — 358 Causes of Death – Continued from previous page



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ST: 1 = Subtotal Limited — Sex: 1 = Males; 2 = Females Limited — Age: 1 = 5 years & over; 2 = 10-54 years; 3 = 28 days & over; 4 = Under 1 year; 5 = 1-4 years; 6 = 1 year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Lim	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
085				Liver (C22.0,C22.2-C22.9)
086				I ntrahepatic bile duct carcinoma (C22.1)
087				Of gallbladder and extrahepatic bile ducts (C23-C24)
088				Of pancreas (C25)
089				Of other and ill-defined digestive organs (C26)
090	1			Malignant neoplasms of respiratory and intrathoracic organs (C30-C39)
091	-			Of nasal cavity, middle ear and accessory sinuses (C30-C31)
092				Of larynx (C32)
093				Of trachea, bronchus and lung (C33-C34)
094				Of thymus, heart, mediastinum and pleura (C37-C38)
095				Of other and ill-defined sites in respiratory system and intrathoracic organs (C39)
096				Malignant neoplasms of bone and articular cartilage (C40-C41)
097	1			Melanoma and other malignant neoplasms of skin (C43-C44)
098	1			Malignant melanoma of skin (C43)
099				Other malignant neoplasms of skin (C44)
100	1			Malignant neoplasms of mesothelial and soft tissue (C45-C49)
100	T			Mesothelioma (C45)
101				Kaposi's sarcoma (C46)
103				Of other mesothelial and soft tissue (C47-C49) Malignant neoplasm of breast (C50)
104 105	1	2		
105	1	2		Malignant neoplasms of female genital organs (C51-C58)
106		2		Of vulva and vagina (C51-C52)
107		2		Of cervix uteri (C53)
108		2		Of corpus uteri and uterus, part unspecified (C54-C55)
109		2		Of ovary (C56)
110		2	0	Of other and unspecified female genital organs (C57)
111	-	2	2	Of placenta (C58)
112	1	1		Malignant neoplasms of male genital organs (C60-C63)
113		1		Of prostate (C61)
114		1		Of testis (C62)
115	-	1		Of penis and other and unspecified male genital organs (C60,C63)
116	1			Malignant neoplasms of urinary tract (C64-C68)
117				Of kidney and renal pelvis (C64-C65)
118				Of bladder (C67)
119				Of other and unspecified sites within the urinary tract (C66,C68)
120	_			Malignant neoplasm of eye and adnexa (C69)
121	1			Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-
100				C72)
122				Of brain (C71)
123				Of other parts of central nervous system (C70,C72)
124				Malignant neoplasms of thyroid and other endocrine glands (C73-C75)
125	_			Other malignant neoplasms of other and unspecified sites (C76-C80,C97)
126	1			Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)
127	_			Hodgkin's disease (C81)
128	1			Of other lymphoid, hematopoietic and related tissue (C82-C85,C96)
129				Non-Hodgkin's lymphoma (C82-C85)
130				Of other and unspecified lymphoid, hematopoietic and related tissue (C96)
131				Malignant immunoproliferative diseases (C88)
132				Multiple myeloma and malignant plasma cell neoplasms (C90)



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ST: 1 = Subtotal Limited — Sex: 1 = Males; 2 = Females Limited — Age: 1 = 5 years & over; 2 = 10-54 years; 3 = 28 days & over; 4 =Under 1 year; 5 = 1-4 years; 6 = 1 year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Lim	ited	
Recode	ST	Sex		Cause Title and Codes Included
133	1			Leukemia (C91-C95)
134				Lymphoid leukemia (C91)
135				Myeloid leukemia (C92)
136				Monocytic leukemia (C93)
137				Other and unspecified leukemia (C94-C95)
138	1			In situ neoplasms (D00-D09)
139				Carcinoma in situ of breast and genitourinary system (D05-D07)
140				Carcinoma in situ of other and unspecified sites (D00-D04,D09)
141	1			Benign neoplasms (D10-D36)
142		2		Of female genital organs (D25-D28)
143		-		Of eye, brain and other parts of central nervous system (D31-D33)
144				Of other and unspecified sites (D10-D24,D29-D30,D34-D36)
145				Neoplasms of uncertain or unknown behavior of specified sites (D37-D47)
146				Neoplasms of uncertain or unknown behavior of unspecified sites (D48)
140				Neoplashis of uncertain of unknown behavior of unspectified sites (D40)
147	1			III. Diseases of the blood and blood-forming organs and certain disor-
	_			ders involving the immune mechanism (D50-D89)
148	1			Anemias (D50-D64)
149				Nutritional anemias (D50-D53)
150				Hemolytic anemias (D55-D59)
151				Aplastic anemias (D60-D61)
152				Acute posthemorrhagic and other anemias (D62,D64)
153				Coagulation defects, purpura and other hemorrhagic conditions (D65-D69)
154				Other diseases of blood and blood-forming organs (D70-D76)
155				Certain disorders involving the immune mechanism (D80-D89)
156	1			IV. Endocrine, nutritional and metabolic diseases (E00-E88)
157	1			Endocrine diseases (E00-E34)
158				Disorders of thyroid gland (E00-E07)
159			3	Diabetes mellitus (E10-E14)
160				Disorders of pituitary gland (E22-E23)
161				Disorders of adrenal glands (E24-E27)
162				Diseases of thymus (E32)
163				Other endocrine diseases (E15-E21,E28-E31,E34)
164	1			Nutritional diseases (E40-E68)
165	1			Malnutrition (E40-E46)
166				Nutritional marasmus (E41)
167				Other and unspecified malnutrition (E40,E42-E46)
168				Other nutritional deficiences (E50-E64)
169				Obesity and other hyperalimentation (E65-E68)
170	1		3	Metabolic disorders (E70-E88)
171	-		°,	Cystic fibrosis (E84)
172				Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)
172				Other metabolic disorders (E70-E83,E85,E88)
174	1			V Montal and babaylard disarders (E01 E00)
174 175	1			V. Mental and behavioral disorders (F01-F99)
175				Organic dementia (F01,F03) Other and warranified errorie mental disorders (F04,F00)
176	1		2	Other and unspecified organic mental disorders (F04-F09)
177	1		3	Mental and behavioral disorders due to psychoactive substance use (F10-F19)



				Table 5.5 — 358 Causes of Death – Continued from previous page
	ST: $1 = $ Subtotal		ubtotal	Limited — Sex: $1 = Males$; $2 = Females$
				Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;
				4 = Under 1 year; $5 = 1$ -4 years; $6 = 1$ year and over;
				7 = 10 years and over
				***** Cause Subtotals are not identified in this file *****
		1.500	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
178			3	Mental and behavioral disorders due to use of alcohol (F10)
			3	
179			5	Mental and behavioral disorders due to other psychoactive substance use (F11-F19)
180				Schizophrenia, schizotypal and delusional disorders (F20-F29)
181				Mood (affective) disorders (F30-F39)
182				Neurotic, stress-related and somatoform disorders (F40-F48)
183				Mental retardation (F70-F79)
184				Other and unspecified mental and behavioral disorders (F50-F69,F80-F99)
185	1			VI. Diseases of the nervous system (G00-G98)
186				Meningitis (G00,G03)
187				Other inflammatory diseases of central nervous system (G04-G09)
188				Parkinson=s disease (G20-G21)
189				Alzheimer=s disease (G30)
190				Multiple sclerosis (G35)
191				Epilepsy (G40-G41)
191				
				Transient cerebral ischemic attacks and related syndromes (G45)
193 194				Infantile cerebral palsy (G80) All other diseases of nervous system (G10-G12,G23-G25,G31,G36-G37,G43-G44,G47-G72,G81-G98)
195				VII. Diseases of the eye and adnexa (H00-H57)
196				VIII. Diseases of the ear and mastoid process (H60-H93)
197	1			IX. Diseases of the circulatory system (100-199)
198	1			Acute rheumatic fever and chronic rheumatic heart diseases (100-109)
199				Acute rheumatic fever (100-102)
200	1			Chronic rheumatic heart diseases (105-109)
201				Rheumatic mitral valve diseases (105)
202				Rheumatic aortic valve diseases (106)
203				Disorders of both mitral and aortic valves (108.0)
204				Other chronic rheumatic heart diseases (107,108.1-108.9,109)
205	1			Hypertensive diseases (I10-I13)
206				Essential (primary) hypertension (I10)
207				Hypertensive heart disease (I11)
208				Hypertensive renal disease (II2)
208				Hypertensive renar disease (112) Hypertensive heart and renal disease (113)
	1			
210	1			Ischemic heart diseases (120-125)
211				Acute myocardial infarction (I21-I22)
212				Other acute ischemic heart diseases (124)
213				Other forms of chronic ischemic heart diseases (120,125)
214				Atherosclerotic cardiovascular disease, so described (125.0)
215				All other forms of chronic ischemic heart disease (120,125.1-125.9)
216	1			Other heart diseases (I26-I51)
217	1			Pulmonary heart disease and diseases of pulmonary circulation (126-128)
218				Pulmonary embolism (I26)
210				Other pulmonary heart disease and diseases of pulmonary circulation (127-128)
219				
	1			Other non-pulmonary forms of heart disease (130-151)
219	1			Other non-pulmonary forms of heart disease (I30-I51) Acute and subacute endocarditis (I33)



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Lable 5 5 —	- 358 (ause	s of Death -	- (ontinued	trom	previous page
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ST: 1 = Subtotal Limited — Sex: 1 = Males; 2 = Females Limited — Age: 1 = 5 years & over; 2 = 10-54 years; 3 = 28 days & over; 4 =Under 1 year; 5 = 1-4 years; 6 = 1 year and over; 7 = 10 years and over

***** Cause Subtotals are not identified in this file *****

		Limit	ted	
Recode	ST		Age	Cause Title and Codes Included
223	1			Other diseases of endocardium (134-138)
224				Nonrheumatic mitral valve disorders (134)
225				Nonrheumatic aortic valve disorders (135)
226				All other diseases of endocardium (136-138)
227				Cardiomyopathy (I42)
228				Conduction disorders and cardiac dysrhythmias (144-149)
229	1			Heart failure (I50)
230				Congestive heart failure (150.0)
231				Other and unspecified heart failure (I50.1-I50.9)
232				Myocarditis, unspecified and myocardial degeneration (I51.4-I51.5)
233				All other and ill-defined forms of heart disease (I50.0-I51.3, I51.6-I51.9)
234	1			Cerebrovascular diseases (160-169)
235				Subarachnoid hemorrhage (160)
236			3	Intracerebral and other intracranial hemorrhage (I61-I62)
237				Cerebral infarction (I63)
238				Stroke, not specified as hemorrhage or infarction (164)
239				Other cerebrovascular diseases and their sequelae (167,169)
240	1			Diseases of arteries, arterioles and capillaries (170-178)
241				Atherosclerosis (I70)
242				Aortic aneurysm and dissection (I71)
243				Other diseases of arteries, arterioles and capillaries (170-178)
244	1			Other disorders of circulatory system (180-199)
245				Phlebitis, thrombophlebitis, venous embolism and thrombosis (180-182)
246				All other and unspecified disorders of circulatory system (183-199)
247	1			X. Diseases of the respiratory system (J00-J98)
248	1			Acute upper respiratory infections (J00-J06)
249				Acute pharyngitis and tonsillitis (J02-J03)
250				Acute laryngitis and tracheitis ((J04)
251				Other and unspecified acute upper respiratory infections (J00-J01, J05-J06)
252	1			Other diseases of the respiratory system (J10-J98)
253				Influenza (J10-J11)
254	1			Pneumonia (J12-J18)
255				Viral pneumonia, not elsewhere classified (J12)
256				Bacterial pneumonia (J13-J15)
257				Pneumonia due to other or unspecified organisms (J16,J18)
258	1			Other acute lower respiratory infections (J20-J22)
259				Acute bronchitis and bronchiolitis(J20-J21)
260				Unspecified acute lower respiratory infection (J22)
261				Other diseases of upper respiratory tract (J30-J39)
262	1			Chronic lower respiratory diseases (J40-J47)
263	1			Bronchitis, chronic and unspecified, emphysema and asthma (J40-J46)
264				Bronchitis, not specified as acute or chronic (J40)
265				Chronic bronchitis (J41-J42)
266			3	Emphysema (J43)
267				Other chronic obstructive pulmonary disease (J44)
268				Asthma (J45-J46)
269				Bronchiectasis (J47)
270	1			Lung diseases due to external agents (J60-J70)



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Recode	ST	Limited Sex Age	Cause Title and Codes Included
271			Pneumoconioses and chemical effects (J60-J66, J68)
272	1		Pneumonitis due to solids and liquids (J69)
273			Pneumonitis due to food and vomit (J69.0)
274			Other pneumonitis due to solids and liquids (J69.1-J69.8)
275			Other lung diseases due to external agents (J67,J70)
276			Suppurative and necrotic conditions of lower respiratory tract (J85-J86)
277			Pleural effusion and plaque (J90, J92)
278			All other diseases of respiratory system (J80-J84,J93-J98)
279	1		XI. Diseases of the digestive system (K00-K92)
280			Diseases of oral cavity, salivary glands and jaws (K00-K14)
281	1		Diseases of other parts of digestive system (K20-K92)
282			Diseases of esophagus (K20-K22)
283	1		Peptic ulcer (K25-K28)
284			Gastric ulcer(K25)
285			Duodenal ulcer(K26)
286		3	Peptic ulcer, site unspecified (K27)
287			Gastrojejunal ulcer (K28)
288			Gastritis and duodenitis (K29)
289			Dyspepsia and other diseases of stomach and duodenum (K30-K31)
290			Diseases of appendix (K35-K38)
291			Hernia (K40-K46)
292			Crohn's disease and ulcerative colitis (K50-K51)
293			Vascular disorders and obstruction of intestine without hernia (K55-K56)
294			Diverticular disease of intestine (K57)
295			Other diseases of intestines and peritoneum (K52,K58-K63)
296			Diseases of peritoneum (K65-K66)
297	1		Diseases of liver (K70-K76)
298			Alcoholic liver disease (K70)
299			Chronic hepatitis, not elsewhere classified (K73)
300			Fibrosis and cirrhosis of liver (K74)
301			Other diseases of liver (K71-K72,K75-K76)
302			Cholelithiasis and other disorders of gallbladder (K80-K82)
303	1		Disorders of biliary tract and pancreas (K83-K86)
304			Pancreatitis (K85,K86.0-K86.1)
305			Other disorders of biliary tract and pancreas (K83,K86.2-K86.9)
306			All other diseases of digestive system (K90-K92)
307	1		XII. Diseases of the skin and subcutaneous tissue (L00-L98)
308			Infections of skin and subcutaneous tissue (L00-L08)
309			Other and unspecified diseases of skin and sub-cutaneous tissue (L10-L98)
310	1		XIII. Diseases of the musculoskeletal system and connective tissue
311			(M00-M99) Rheumatoid arthritis and related inflammatory polyarthropathies (M05-M08)
311 312			Systemic lupus erythematosus (M32)
312 313			Other arthropathies and related disorders (M00,M02,M10-M31,M33-M35)
313 314			Dorsopathies (M40-M54)
314 315			Soft tissue disorders (M60-M79)

Table 5.5 — 358 Causes of Death - Continued from previous page

Limited — Sex: 1 = Males; 2 = Females

 $\mathsf{ST:}\ 1=\mathsf{Subtotal}$



	ST: 1 = Subtotal			Limited — Sex: $1 =$ Males; $2 =$ Females
				Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;
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				7 = 10 years and over
				***** Cause Subtotals are not identified in this file *****
		Lin	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
316	1			Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue
~ -				(M80-M99)
317				Osteoporosis (M80-M81)
318				Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue (M83-M99)
319	1			XIV. Diseases of the genitourinary system (N00-N98)
320	1			Diseases of urinary system (N00-N39)
321	1			Glomerular and renal tubulo-interstitial diseases (N00-N15)
322	1			Glomerular diseases (N00-N07)
323				Acute and rapidly progressive nephritic syndrome (N00-N01)
324				Nephrotic syndrome (N04)
325				Other and unspecified glomerular diseases (N02-N03,N05-N07)
326				Renal tubulo-interstitial diseases (N10-N15)
327				Renal failure (N17-N19)
328				Urolithiasis (N20-N23)
329				Other and unspecified disorders of kidney (N25-N27)
330				Urinary tract infection, site not specified (N39.0)
331				Other diseases of urinary system (N28-N36,N39.1-N39.9)
332	1	1		Diseases of male genital organs (N40-N50)
333		1		Hyperplasia of prostate (N40)
334		1		Other diseases of male genital organs (N41-N50)
335				Disorders of breast (N60-N64)
336	1	2		Disorders of female genital organs (N70-N98)
337		2		Inflammatory diseases of female pelvic organs (N70-N76)
338		2		Noninflammatory disorders of female genital tract (N80-N98)
339	1	2	7	XV. Pregnancy, childbirth and the puerperium (O00-O99)
340	1	2	7	Pregnancy with abortive outcome (O00-O07)
341		2	7	Ectopic pregnancy (O00)
342		2	7	Spontaneous abortion (O03)
343		2	7	Medical abortion (O04)
344		2	7	Other abortion (O05) $(201, 002, 005, 007)$
345	-	2	7	Other and unspecified pregnancy with abortive outcome (O01-O02,O06-O07)
346	1	2	7	Other direct obstetric deaths (O10-O92)
347		2	7	Eclampsia and pre-eclampsia (011,013-016)
348	1	2	7	Hemorrhage of pregnancy and childbirth and placenta previa (O20,O44-O46,O67,072)
349	1	2	7	Complications predominately related to the puerperium (O85-O92)
350		2	7	Obstetric embolism (088)
351		2	7	Other complications predominately related to the puerperium (085-087,089-092)
352		2	7	All other direct obstetric causes (010,012,021-043,047-066,068-071, 073-075)
353		2	7	Obstetric death of unspecified cause (O95) Other deaths related to measure childhith and the measure (O06, O07)
354 355		2 2	7 7	Other deaths related to pregnancy, childbirth and the puerperium (O96-O97) Indirect obstetric deaths (O98-O99)
356	1			XVI. Certain conditions originating in the perinatal period (P00-P96
357				Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00 P04)



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			***** Cause Subtotals are not identified in this file *****
Recode	ST	Limited Sex Age	Cause Title and Codes Included
359			Birth trauma (P10-P15)
359 360			Intrauterine hypoxia and birth asphyxia (P20-P21)
861			Respiratory distress of newborn (P22)
362			Other respiratory conditions originating in the perinatal period (P23-P28)
863			Infections specific to the perinatal period (P35-P39)
64 64			Other and unspecified conditions originating in the perinatal period (P05,P08,P29,P50-P96)
865	1		XVII. Congenital malformations, deformations and chromosomal
			abnormalities (Q00-Q99)
366			Anencephaly and similar malformations (Q00)
367			Spina bifida (Q05)
368			All other congenital malformations of nervous system (Q01-Q04,Q06-Q07)
369			Congenital malformations of heart (Q20-Q24)
370			Other congenital malformations of circulatory system (Q25-Q28)
371			Congenital malformations of respiratory system (Q30-Q34)
372			Other congenital malformations and deformations (Q10-Q18,Q35-Q89)
373			Down's syndrome (Q90)
374			All other chromosomal abnormalities, not elsewhere classified (Q91-Q99)
375	1		XVIII. Symptoms, signs and abnormal clinical and laboratory finding not elsewhere classified (R00-R99)
376			Senility (R54)
377	1		III-defined and unknown causes of mortality (R95-R99)
378		4	Sudden infant death syndrome (R95)
379			Other ill-defined and unknown causes of mortality (R96-R99)
380			All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94)
381	1		XX. External causes of mortality (*U01-*U03,V01-Y89)
382	1		Accidents (unintentional injuries) (V01-X59,Y85-Y86)
383	1		Transport accidents (V01-V99, Y85)
384			Railway accidents (V05,V15,V80.6,V81.2-V81.9,V80.3-V80.5, V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0, V89.2)
385	1		Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-
	-		V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0- V88.8,V89.0,V89.2)
386			Pedestrian involved in collision with motor vehicle (V02-V04)
387			Pedalcyclist involved in collision with motor vehicle (V02-V04) Pedalcyclist involved in collision with motor vehicle (V12-V14,V19.0,V19.2-V19.4
101			V19.6)
388			Motorcyclist involved in any accident except collision with railway train (V20-
			V24,V26-V34,V36-V39)
389	1		Motor vehicle accident involving collision with railway train (V25,V35,V45,V55,V65,V75,V81.0-V81.1,V87.6,V88.6)
390			Motorcyclist involved in collision with railway train (V25,V35)
391			Other motor vehicle accident involving collision with railway train
			(V45,V55,V65,V75,V81.0-V81.1,V87.6,V88.6)
392			Occupant of motor vehicle involved in collision with other (non-motorized) road
			vehicle, streetcar, animal or pedestrian (V40-V41,V46-V47,V50-V51,V56-V57,V60-V61,V66- V67,V70-V71, V76-V77)



			Table 5.5 — 358 Causes of Death – Continued from previous page
	ST:	1 = Subtotal	Limited — Sex: $1 =$ Males; $2 =$ Females
			Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over;
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			7 = 10 years and over
			***** Cause Subtotals are not identified in this file *****
			Cause Subtotals are not identified in this me
	сŦ	Limited	
Recode	ST	Sex Age	Cause Title and Codes Included
393			Occupant of car, pickup truck or van involved in collision with other motor vehicle (V42-V44,V49,V52-V54,V59)
394			Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle (V62-V64,V69,V72-V74,V79)
395			Occupant of motor vehicle involved in non-collision accident (V48,V58,V68,V78)
396			Occupant of special-use motor vehicle involved in any accident (V83-V86)
397			Other and unspecified motor vehicle accidents (V09.0,V09.2,V80.3-V80.5,V82.0-
			V82.1,V87.0-V87.5,V87.7-V87.8, V88.0-V88.5,V88.7-V88.8,V89.0,V89.2)
398			Streetcar accidents (V82.2-V82.9)
399			Other and unspecified land transport accidents (V01,V06,V09.1,V09.3,V09.9,V10-
			V11,V16-V18,V19.3,V19.8-V19.9, V80.0-V80.2,V80.7-V80.9,V87.9,V88.9,V89.1,V89.3,V89.9)
400			Water transport accidents (V90-V94)
401			Air and space transport accidents (V95-V97)
402			Other and unspecified transport accidents and their sequelae (V98-V99,Y85)
403	1		Falls (W00-W19)
404	1		Fall on same level (W00-W09,W18)
405			Fall from one level to another (W10-W17)
406			Unspecified fall (W19)
400			
			Accidental discharge of firearms (W32-W34)
408			Accidental explosion (W39-W40)
409			Accidental drowning and submersion (W65-W74)
410			Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)
411			Other accidental and unspecified threats to breathing (W75-W77,W81-W84)
412			Accidental exposure to electrical current (W85-W87)
413			Accidental exposure to radiation (W88-W91)
414			Accidental exposure to smoke, fire and flames (X00-X09)
415			Accidental contact with heat and hot substances $(X10-X19)$
416			Lightning (X33)
417			Earthquake, volcanic eruption, avalanche, landslide and other earth movements (X34-X36)
418			Cataclysmic storm and flood (X37-X38)
419	1		Accidental poisoning and exposure to noxious substances (X40-X49)
420			Accidental poisoning by and exposure to drugs and other biological substances (X40-X44)
421			Accidental poisoning by and exposure to other and unspecified solid or liquids sub- stances (X45-X46,X48-X49)
422			Accidental poisoning by and exposure to other gases and vapors (X47)
423			All other and unspecified accidents (W20-W31,W35-W38,W41-W64,W92-W99,X20- X32,X39,X50-X59,Y86)
424	1	1	Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
425		1	Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances (X60-X64)
426		1	Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors (X65-X66,X68-X69)
427		1	Intentional self-poisoning (suicide) by and exposure to other gases and vapors (X67)
428		1	Intentional self-harm (suicide) by hanging, strangulation and suffocation (X70)
429		1	Intentional self-harm (suicide) by discharge of firearms (X72-X74)
430		1	Intentional self-harm (suicide) by jumping from a high place (X80)
		-	Continued on next page

Table 5.5 — 358 Causes of Death – Continued from previous page



				Table 5.5 — 358 Causes of Death – Continued from previous page		
	ST:	1 = Si	ubtotal	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over; 4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over; 7 = 10 years and over		
				***** Cause Subtotals are not identified in this file *****		
		lim	nited			
Recode	ST	Sex	Age	Cause Title and Codes Included		
431			1	Intentional self-harm (suicide) by all other and unspecified means and their sequelae		
				(*U03,X71,X75-X79,X81-X84,X87.0)		
432	1			Assault (homicide) (*U01-*U02,X85-Y09,X87.1)		
433				Assault (homicide) by drugs, biological substances and other and unspecified noxious sub- stances (*U01.6-*U01.7,X85-X90)		
434				Assault (homicide) by hanging, strangulation and suffocation (X91)		
435				Assault (homicide) by discharge of firearms (*U01.4,X93-X95)		
436				Assault (homicide) by sharp object (X99)		
437				Assault (homicide) by blunt object (Y00)		
438				Assault (homicide) by bodily force (Y04)		
439				Sexual assault (homicide) by bodily force (Y05)		
440				Neglect, abandonment and other maltreatment syndromes (Y06-Y07)		
441				Assault (homicide) by all other and unspecified means and their sequelae (*U01.0- *U01.3,*U01.5,*U01.8-*U01.9,*U02,X92,X96-X98, Y01-Y03,Y08-Y09,Y87.1)		
442	1			Event of undetermined intent (Y10-Y34,Y87.2,Y89.9)		
	1			Poisoning by and exposure to drugs and biological substances, undetermined intent (Y10-		
443				Y14)		
444				Poisoning by and exposure to other and unspecified solid or liquid substance undetermined intent (Y15-Y16,Y18-Y19)		
445				Poisoning by and exposure to other gases and vapors, undetermined intent (Y17)		
446				Discharge of firearms, undetermined intent (Y22-Y24)		
447				Falling, jumping or pushed from a high place, undetermined intent (Y30)		
448				All other and unspecified events of undetermined intent and their sequelae (Y20-Y21,Y25- Y29,Y31-Y34,Y87.2,Y89.9)		
449	1			Legal intervention (Y35,Y89.0)		
450	T			Legal intervention (Y35.5)		
451				Other legal intervention and their sequelae (Y35.0-Y35.4,Y35.6-Y35.7,Y89.0)		
452				Operations of war and their sequelae (Y36,Y89.1)		
453	1			Complications of medical and surgical care (Y40-Y84,Y88)		
454	-			Drugs, medicaments and biological substances causing adverse effects in therapeutic use and their sequelae (Y40-Y59,Y88.0)		
455				Misadventures to patients during medical and surgical care and their sequelae (Y60-		
456				Y69,Y88.1) Other complications of medical and surgical care and their sequelae (Y70-Y84,Y88.2-Y88.3)		



5.6 39 Causes of Death, 10th Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1999-2019

Table 5.6: 39 Causes of Death, 10^{th} Revision: Underlying Cause of Death Recode Adapted for Use by DVS, Deaths 1999-2019

ST: 1 = Subtotal	Limited — Sex: $1 =$ Males; $2 =$ Females Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over; 4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over; 7 = 10 years and over
	7 — 10 years and over

Limited

***** Cause Subtotals are not identified in this file *****

001 Tuberculosis (A16-A19) 002 Syphilis (A50-A53) 003 Human immunodeficiency virus (HIV) disease (B20-B24) 004 1 005 Malignant neoplasms of stomach (C16) 006 Malignant neoplasms of colon, rectum and anus (C18-C21) 007 Malignant neoplasms of colon, rectum and anus (C13-C34) 009 Malignant neoplasms of traches, bronchus and lung (C33-C34) 009 Malignant neoplasms of creast (C50) 010 2 011 Malignant neoplasms of orostate (C61) 012 Malignant neoplasms of urinary tract (C64-C68) 013 Non-Hodgkin's lymphoma (C82-C85) 014 Leukemia (C91-C95) 015 Other malignant neoplasms (C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C50, C52-C53, C69-C63, C68-C63, C69-C63) 016 3 Diabetes mellitus (E10-E14) 017 Alzheimer's disease (C30) 018 1 Diseases of heart (U0-109, 111, 13, 120-151) 019 1 Diseases of heart (U0-109, 124-151) 021 Other diseases (100-178) 022 Other diseases (100-169) 023 Essential (primary) hypertension and hyperte	Recode	ST	Sex	Age	Cause Title and Codes Included
002 Syphilis (A50-A53) 003 Human immunodeficiency virus (HIV) disease (B20-B24) 004 1 005 Malignant neoplasm of stomach (C16) 006 Malignant neoplasm of otomach (C16) 007 Malignant neoplasm of trachea, bronchus and lung (C33-C34) 009 Malignant neoplasm of parceas (C50) 010 2 011 1 012 Malignant neoplasms of unarceas (C61) 013 Non-Hodgkin's lymphoma (C82-C85) 014 Leukemia (C91-C95) 015 Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-C81,C88,C90,C96-C97) 016 3 Diabetes mellitus (E10-E14) 017 Alzheimer's disease (G30) 018 1 Major cardiovascular diseases (100-178) 019 1 Diseases of heart (100-109,12-611) 021 Other diseases (100-125) 022 Other diseases (100-192,12-151) 023 Essential (primary) hypertension and hypertensive renal disease (111,113) 024 Cerebrovascular diseases (160-169) 025 Atherosclerosis (170) 026 Other diseases of heart (100-109,12-611) 027 Influenza and pneumonia (112-118) 028 Chronic lower respiratory disease (140-147) <td>001</td> <td></td> <td></td> <td></td> <td>Tuberculosis (A16-A19)</td>	001				Tuberculosis (A16-A19)
004 1 Malignant neoplasms (C00-C97) 005 Malignant neoplasm of stomach (C16) 006 Malignant neoplasm of colon, rectum and anus (C18-C21) 007 Malignant neoplasm of pancreas (C25) 008 Malignant neoplasm of colon, rectum and anus (C33-C34) 009 Malignant neoplasm of practs (C50) 010 2 011 Malignant neoplasm of cervix uteri, corpus uteri and ovary (C53-C56) 011 Malignant neoplasm of cervix uteri, corpus uteri and ovary (C53-C56) 011 Malignant neoplasm of cervix uteri, corpus uteri and ovary (C53-C56) 012 Malignant neoplasm of cervix uteri, corpus uteri and ovary (C53-C56) 013 Non-Hodgkin's lymphoma (C82-C85) 014 Leukemia (C10-C95) 015 Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C63,C69-C81,C88,C90,C96-C97) 016 3 Diabetes mellitus (E10-E14) 017 Alzheimer's disease (C00-178) 019 Diseases of heart (100-109,111,113,120-151) 020 Other diseases (C01-E05) 021 Schemic heart diseases (C01-E15) 022 Other diseases (C10-E05) 023 Essential (primary) hypertensi	002				
005Malignant neoplasm of stomach (C16)006Malignant neoplasm of colon, rectum and anus (C18-C21)007Malignant neoplasm of colon, rectum and anus (C18-C21)008Malignant neoplasm of trachea, bronchus and lung (C33-C34)009Malignant neoplasm of trachea, bronchus and lung (C33-C34)0102Malignant neoplasm of prostate (C61)0111Malignant neoplasm of prostate (C61)012Malignant neoplasm of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms of colo-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-C81,C88,C90,C96-C97)0163018101910191020Diabetes mellitus (E10-E14)021Hypertensive heart diseases (100-178)022Other diseases (100-109,111,113,120-I51)023Essential (primary) hypertension and hypertensive renal disease (111,113)021Ischemic heart diseases (100-109,126-I51)022Other diseases of circulatory system (171-178)023Chronic lower respiratory diseases (140-J47)024Cerebrovascular diseases (140-J47)025Atherosclerosis (170)026Chronic lower respiratory diseases (140-J47)029Peticu (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephronis (M00-N07,N17-N19,N25-N27)03222033Certain conditions originating	003				Human immunodeficiency virus (HIV) disease (B20-B24)
006Malignant neoplasms of colon, rectum and anus (C18-C21)007Malignant neoplasm of pancreas (C25)008Malignant neoplasm of tachea, bronchus and lung (C33-C34)009Malignant neoplasm of tachea, bronchus and lung (C33-C56)0102Malignant neoplasm of porstate (C61)0111Malignant neoplasm of prostate (C61)012Malignant neoplasm of prostate (C61)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms of c00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-C81,C88,C90,C96-C97)0163018Najor cardiovascular diseases (100-178)0191019Disease of heart (100-109,111,113,120-151)020Hypertensive heart diseases (100-178)021Essential (primary) hypertension and hypertensive renal disease (111,113)022Other diseases of heart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic liver disease and cirrhosis (K70,K73-K74)039Certain conditions originating in the perinasi (P00-P96)031Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)033Cordici and abnormal clinical and laboratory findings, not elsewhere classified (excluding Surden infant death syndrome (R95)036<	004	1			Malignant neoplasms (C00-C97)
007Malignant neoplasm of pancreas (C25)008Malignant neoplasm of breast (C50)009Malignant neoplasm of breast (C50)0102Malignant neoplasm of breast (C50)0111Malignant neoplasm of prostate (C61)012Malignant neoplasm of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms of (C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-01630181019101910191020Hypertensive heart disease (100-178)021Uher disease (G30)022Other diseases (100-109, 111, 113, 120-151)023Essential (primary) hypertensive nearl disease (111, 113)021Ischemic heart diseases (160-169)022Other diseases (160-169)023Essential (primary) hypertension and hypertensive renal disease (110, 112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (110-118)028Chronic liver disease and cirrhosis (K70, K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-N19, N25-N27)03222044Corgenital malformations, deformations and chromosomal abnormalities (Q00-Q99)033Cortoric liver disease and cirrhosis (K70, K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-	005				Malignant neoplasm of stomach (C16)
008Malignant neoplasms of trachea, bronchus and lung (C33-C34)009Malignant neoplasm of breast (C50)010201111Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)0111012Malignant neoplasms of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C61, C68, C69, C69-C67)01630181017Alzheimer's disease (G30)01810191020Hypertensive heart disease with or without renal disease (111,113)021Ischemic radiovascular diseases (100-109,112,113,120-151)022Other diseases of heart (100-109,112,6151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)032222Pregnancy, childbirth and the purepreim (000-099)033Cercental mafformations, deformations and chromosomal abnormalities (Q00-Q99)034Sudden infant de	006				Malignant neoplasms of colon, rectum and anus (C18-C21)
009Malignant neoplasm of breast (C50)0102Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)0111Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)0111Malignant neoplasms of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57-C60, C62-C63, C69-C81, C88, C90, C96-C97)01630181019101910191020Hypertensive heart diseases (100-178)0211022Other diseases of heart (100-109, 111, 13, 120-151)0231024Cerebrovascular diseases (120-125)025Atherosclerosis (160-169)026Cherokucul diseases (160-169)027Influenza and pneumonia (110-118)028Chronic lower respiratory diseases (140-147)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70, K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-N19, N25-N27)0322203Certain conditions originating in the perinatal period (P00-P96)033Corgenital malformations, deformations and chromosomal abnormalities (Q00-Q99)034Sudden infant death syndrome (R95)036Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94, R96-R99)037	007				
0102Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)0111Malignant neoplasms of prostate (C61)012Malignant neoplasms of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-C81,C88,C90,C96-C97)016301810191019101910191020Hypertensive heart diseases (100-178)021Utert diseases (100-109,111,113,120-151)022Other diseases (100-125)023Essential (primary) hypertension and hypertensive renal disease (111,113)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (140-J47)029Peptic ulcer (K25-K28)030Chronic lower respiratory diseases (140-00-099)033Certain conditions originating in the perinatal period (P00-P96)034Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)0354Sudden infant death syndrome (R00-R94, R96-R99)036Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94, R96-R99)037All other diseases (Residual) (A00-A09, A20-A49, A54-B19, B25-B99, D00-E07, E15-G25, G31- </td <td>008</td> <td></td> <td></td> <td></td> <td>Malignant neoplasms of trachea, bronchus and lung (C33-C34)</td>	008				Malignant neoplasms of trachea, bronchus and lung (C33-C34)
0111Malignant neoplasm of prostate (C61)012Malignant neoplasms of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57- C60,C62-C63,C69-C81,C88,C90,C96-C97)0163017Alzheimer's disease (G30)018101910191019101910191019101910191019101910191019101910191020Hypertensive heart disease with or without renal disease (111,113)021Essential (00-109,111,113,120-151)022Other diseases of heart (100-109,126-11)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)032222Pregnancy, childbirth and the puerperium (000-O99)033Certain conditions originating in the perinatal	009				Malignant neoplasm of breast (C50)
012Malignant neoplasms of urinary tract (C64-C68)013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57- C60,C62-C63,C69-C81,C88,C90,C96-C97)0163Diabetes mellitus (E10-E14)017Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109,111,113,120-151)020Hypertensive heart disease (120-125)021Schemic heart diseases (120-125)022Other diseases of leart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (100-109)025Atherosclerosis (170)026Other diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver respiratory diseases (J40-J47)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)03222Pregnancy, childbirth and the puerperium (000-099)033Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)0354Sudden infant death syndrome (R95)036Symptoms, signs and abnormal (Inical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B9,D00-E07, E15-C25,G31-	010		2		Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)
013Non-Hodgkin's lymphoma (C82-C85)014Leukemia (C91-C95)015Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57- C60,C62-C63,C69-C81,C88,C90,C96-C97)0163Diabetes mellitus (E10-E14)017Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109,111,113,120-151)020Hypertensive heart disease with or without renal disease (111,113)021Ischemic heart disease (120-125)022Other diseases of heart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of icrculatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)032222Pregnancy, childbirth and the puerperium (000-099)0354Sudden infant death syndrome (R95)036Symptoms, signs and abnormal (Inical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-C25,G31-	011		1		Malignant neoplasm of prostate (C61)
014Leukemia (C91-C95) Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57- C60,C62-C63,C69-C81,C88,C90,C96-C97)0163Diabetes mellitus (E10-E14)017Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109,111,113,120-151)020Hypertensive heart diseases (120-125)021Schemic heart diseases (120-125)022Other diseases of heart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)0322223Caretain conditions originating in the perinatal period (P00-P96)034Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)0354Sudden infant death syndrome (R95)036Symptoms, signs and abnormal (Linical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-G25,G31-	012				Malignant neoplasms of urinary tract (C64-C68)
015Other malignant neoplasms (C00-C15, C17, C22-C24, C26-C32, C37-C49, C51-C52, C57- C60, C62-C63, C69-C81, C88, C90, C96-C97)0163Diabetes mellitus (E10-E14)017Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109, 111, 113, 120-151)020Hypertensive heart diseases (120-125)021Schemic heart diseases (120-125)022Other diseases of heart (100-109, 126-151)023Essential (primary) hypertension and hypertensive renal disease (110, 112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (110-118)028Chronic lower respiratory diseases (140-147)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70, K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07, N17-N19, N25-N27)03222Pregnancy, childbirth and the puerperium (000-099)033Corgenital malformations, deformations and chromosomal abnormalities (Q00-Q99)0354036Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome (R95)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-G25,G31-	013				Non-Hodgkin's lymphoma (C82-C85)
C60,C62-C63,C69-C81,C88,C90,C96-C97)0163Diabetes mellitus (E10-E14)017Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109,111,113,120-151)020Hypertensive heart diseases (120-125)021Ischemic heart diseases (120-125)022Other diseases of heart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nepirosis (N00-N07,N17-N19,N25-N27)03222033Certain conditions originating in the perinatal period (P00-P96)034Sudden infant death syndrome (R95)0354Sudden infant death syndrome (R05)036Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-G25,G31-	014				Leukemia (C91-C95)
0163Diabetes mellitus (E10-E14) Alzheimer's disease (G30)0181Major cardiovascular diseases (100-178)0191Diseases of heart (100-109,111,113,120-151)020Hypertensive heart disease with or without renal disease (111,113)021Ischemic heart diseases (120-125)022Other diseases of heart (100-109,126-151)023Essential (primary) hypertension and hypertensive renal disease (110,112)024Cerebrovascular diseases (160-169)025Atherosclerosis (170)026Other diseases of circulatory system (171-178)027Influenza and pneumonia (J10-J18)028Chronic lower respiratory diseases (J40-J47)029Peptic ulcer (K25-K28)030Chronic liver disease and cirrhosis (K70,K73-K74)031Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)03222Pregnancy, childbirth and the puerperium (O00-O99)033Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)0354036Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)037All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-G25,G31-	015				Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-
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	037				All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, E15-G25,G31-



				Table 5.6 — 39 Causes of Death – Continued from previous page
	ST: $1 = Subtotal$			Limited — Age: $1 = 5$ years & over; $2 = 10-54$ years; $3 = 28$ days & over; 4 = Under 1 year; $5 = 1-4$ years; $6 = 1$ year and over;
				7 = 10 years and over
				***** Cause Subtotals are not identified in this file *****
		Lim	nited	
Recode	ST	Sex	Age	Cause Title and Codes Included
038				Motor vehicle accidents (V02-V04,V09.0,V12-V14,V19.0-V19.2,V19.4-V19.6, V20-V79,V80.3- V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8, V88.0-V88.8,V89.0,V89.2)
039				All other and unspecified accidents and adverse effects (V01,V05-V06,V09.1, V09.3-
				V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9, V81.2-V81.9,V82.2- V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-X59,Y40-Y86, Y88)
040			1	Intentional self-harm (suicide) (X60-X84,Y87.0)
041				Assault (homicide) (X85-Y09,Y87.1)
042				All other external causes (Y10-Y36,Y87.2,Y89)