### Underlying and Multiple Causes of Death September 2006

### **Underlying Cause of Death Codes**

### ICD\_9REV Underlying Cause of Death for death years prior to 1999

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 4<sup>th</sup> digit, the 4<sup>th</sup> 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).

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 NCHS respondent deaths occurring prior to 1999. 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).

### *ICD\_10REV* Underlying Cause of Death for death years occurring after 1998

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.

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 NCHS survey respondent deaths occurring after 1998. For more information regarding ICD-10 coding guidelines see the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. (World Health Organization) 1992. Revision, Volume 1.

### **Underlying Cause of Death Recodes**

*UCOD\_282* Underlying Cause of Death Recode-282 groups for deaths occurring prior to 1999(ICD-9)

*UCOD\_72* Underlying Cause of Death Recode-72 groups for deaths occurring prior to 1999(ICD-9)

*UCOD\_34* Underlying Cause of Death Recode-34 groups for deaths occurring prior to 1999(ICD-9)

*UCOD\_358* Underlying Cause of Death Recode-358 groups for death years after 1998 (ICD-10)

*UCOD\_113* Underlying Cause of Death Recode-113 groups for all deaths (ICD-10)

Cause of death coding for all U.S. deaths occurring after 1998 follows the ICD-10 guidelines. To assist the researcher with analyses that span the entire survey specific mortality period, all deaths occurring prior to 1999 coded under ICD-9 guidelines were also recoded into comparable ICD-10 based underlying cause of death recode groups. For more on the comparability of ICD-9 and ICD-10 underlying cause of death recodes see: Anderson RN, Minino 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, MD: National Center for Health Statistics. 2001. This document is also available on the NCHS website.

*UCOD\_39* Underlying Cause of Death Recode-39 groups for death years occurring after 1998 (ICD-10)

The 39 underlying cause of death recode groups are only available for NCHS survey respondent deaths occurring after 1998. No ICD-9 to ICD-10 comparability recodes are available for the 39 underlying recode group.

### **Multiple Causes of Death Codes**

### 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, 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 to 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 resolve contradictions.

### **COND\_1 -- COND\_20** Entity axis multiple cause of death codes

Space has been provided for a maximum of 20 entity axis conditions. Each condition takes 7 positions in the record. Records that do not have 20 conditions are blank in the unused area.

#### Position 1: Part/line number on certificate

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

### <u>Position 2</u>: <u>Sequence of condition within part/line</u>

1-9.... Code range

# Positions 3-6: ICD-9 condition code for deaths occurring prior to 1999 ICD-10 condition code for deaths occurring after 1998

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) for a complete list of ICD-9 codes. See the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. (World Health Organization) 1992, Volume 1 for a complete list of ICD-10 codes.

### <u>Position 7:</u> Nature of Injury Flag

1.... Indicates that the code in positions 3-6 is an ICD-9 Nature of Injury code

0.... All other codes

### **RCOND\_1** -- **RCOND\_20** Record axis multiple cause of death codes

Space has been provided for maximum of 20 record axis conditions. Each condition takes 5 positions in the record. Records that do not have 20 conditions are blank in the unused area.

<u>Positions 1-4</u>: ICD-9 condition code for deaths occurring prior to 1999 ICD-10 condition code for deaths occurring after 1998

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) for a complete list of ICD-9 codes. See the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. (World Health Organization) 1992, Volume 1 for a complete list of ICD-10 codes.

### <u>Position 5</u>: Nature of Injury Flag

1.... Indicates that the code in positions 3-6 is an ICD-9
Nature of Injury code

0.... All other codes

## Recode ICD-9 Title and Code

## I. Infectious and parasitic diseases (001-139)

	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)
	Tuberculosis (010-018)
01000	Tuberculosis of respiratory system (010-012)
01100	Other tuberculosis (013-018)
	Zoonotic and other bacterial diseases (020-041)
01300	Brucellosis (023)
01400	Diphtheria (032)
01500	Whooping cough (033)
01600	Streptococcal sore throat, scarlatina, and erysipelas (034-035)
01700	Meningococcal infection (036)
01800	Tetanus (037)
01900	Septicemia (038)
02000	All other bacterial diseases (020-022, 024-031, 039-041)
	Viral diseases (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 (046-049, 051-054, 057-061, 065-066, 071-079)
	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)
	Syphilis and other venereal diseases (090-099)
	Syphilis (090-097)
03500	Cardiovascular syphilis (093)

Neurosyphilis (094)
All other syphilis (090-091, 095-097)
Gonococcal infections (098)
Other venereal diseases (099)
Other infectious and parasitic diseases and late effects of infectious
and parasitic diseases (100-139)
Mycoses (110-118)
Helminthiases (120-129)
Late effects of tuberculosis (137)
Late effects of acute poliomyelitis (138)
All other infectious and parasitic diseases and late effects of other infectious and parasitic
diseases (100-104, 130-136, 139)

## II. Neoplasms (140-239)

	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
	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,
	149.1-149.9)
	Malignant neoplasms of digestive organs and peritoneum (150-159)
05400	Of esophagus (150)
05500	Of stomach (151)
05600	Of small intestine, including duodenum (152)
	Of colon (153)
05800	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)
	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)

organs and peritoneum (158-159)  Malignant neoplasms of respiratory and intrathoracic organs (160-165)  Of larynx (161)  Of all other and ill-defined sites within the respiratory system and intrathoracic organs (160, 163-165)  Malignant neoplasms of bone, connective tissue, skin, and breast (170-175)  Of 500  Of bone and articular cartilage (170)  Of connective and other soft tissue (171)  Melanoma of skin (172)  Of 900  Other malignant neoplasms of skin (173)  Of male breast (174)  Of male breast (174)  Of male breast (175)  Malignant neoplasms of genital organs (179-187)  Of cervix uteri (180)  Of other parts of uterus (179, 181-182)  Of other parts of uterus (179, 181-182)  Of operand other uterine adnexa (183)  Of operand other uterine adnexa (183)  Of operand of prostate (185)  Of prostate (185)  Of prostate (185)  Of prisa and other male genital organs (187)  Malignant neoplasms of urinary organs (188-189)  Of bladder (188)  Of bladder (188)  Of beye (190)  Of other and unspecified parts of nervous system (192)  Of other and unspecified sites (190-199)  Malignant neoplasms of other and unspecified sites (190-199)  Malignant neoplasms of other and unspecified sites (190-208)  Lymphosarcoma and reticulosarcoma (200)  Hodgkin's disease (201)  Other malignant neoplasms of lymphoid and histiocytic tissue (202)  Multiple myeloma and immunoproliferative neoplasms (203)  Leukemia (204-208)  Lymphoid leukemia (204)  Myeloid leukemia (205)	07000	Of retroperitoneum, peritoneum, and other and ill-defined sites within the digestive
07200         Of larynx (161)           07300         Of trachea, bronchus, and lung (162)           07400         Of all other and ill-defined sites within the respiratory system and intrathoracic organs (160, 163-165)           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         Of female breast (174)           08100         Of male breast (175)           Malignant neoplasms of genital organs (179-187)           08300         Of cervix uteri (180)           08400         Of other parts of uterus (179, 181-182)           08500         Of other parts of uterus (179, 181-182)           08500         Of other and unspecified female genital organs (184)           08700         Of prostate (185)           08800         Of testis (186)           08900         Of penis and other male genital organs (187)           Malignant neoplasms of urinary organs (188-189)           09100         Of kidney and other and unspecified urinary organs (189)           Malignant neoplasms of other and unspecified sites (190-199)           09400         Of other and unspecified parts of nervous system (192)           09700		
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• •		Leukemia (204-208)
10600 Myeloid leukemia (205)	10500	Lymphoid leukemia (204)
-	10600	Myeloid leukemia (205)

	Appendix B. 202 Causes of Death Recode
10700	Monocytic leukemia (206)
10800	Other and unspecified leukemia (207-208)
	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified
	nature (210-239)
	Benign neoplasms (210-229)
11100	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)
	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)
III. En	docrine, nutritional, and metabolic diseases and immunity disorders (240-279)
	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,
	270-276, 277.1-277.9, 278.1-279)
	Nutritional deficiencies (260-269)
13000	Nutritional marasmus (261)
13100	Other protein-calorie malnutrition (262-263)
13200	All other nutritional deficiencies (260, 264-269)
IV. Di	seases of blood and blood-forming organs (280-289)
	Anemias (280-285)
13500	Deficiency anemias (280-281)
13600	Hemolytic anemias (282-283)
13700	Aplastic anemia (284)
13800	Other and unspecified anemias (285)
	Purpura and other hemorrhagic conditions (287)

14000 All other diseases of blood and blood-forming organs (286, 288-289)

### V. Mental disorders (290-319)

14800 Mental retardation (317-319)

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)

### VI. Diseases of the nervous system and sense organs (320-389)

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) Multiple sclerosis (340) 15400 Infantile cerebral palsy (343) 15500 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)

### VII. Diseases of the circulatory system (390-459)

	Rheumatic fever and rheumatic heart disease (390-398)
16200	Acute rheumatic fever (390-392)
	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)
	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)	
Ischemic heart disease (410-414)	
17400 Acute myocardial infarction (410)	
Other acute and subacute forms of ischemic heart disease (411)	
17600 Angina pectoris (413)	
Old myocardial infarction and other forms of chronic ischemic heart disease (412, 414)	)
17800 Diseases of pulmonary circulation (415-417)	
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	3)
Other diseases of endocardium (424)	
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)	
All other and ill-defined forms of heart disease (425-427, 429.2-429.9)	
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)	
Other and late effects of cerebrovascular diseases (435, 437-438)	
Diseases of arteries, arterioles, and capillaries (440-448)	
19800 Atherosclerosis (440)	
19900 Aortic aneurysm (441)	
All other diseases of arteries, arterioles, and capillaries (442-448)	
Diseases of veins and lymphatics, and other diseases of circulatory system (451-459)	
20200 Phlebitis, thrombophlebitis, and venous embolism and thrombosis (451-453)	
Other diseases of veins and lymphatics and all other diseases of circulatory system	
(454-459)	
VIII. Diseases of the respiratory system (460-519)	
Diseases of the upper respiratory tract (460-465, 470-478)	
20600 Acute upper respiratory infections (460-465)	

Other diseases of upper respiratory tract (470-478)

20700

	Other diseases of the respiratory system (466, 480-519)
20900	Acute bronchitis and bronchiolitis (466)
	Pneumonia (480-486)
21100	Viral pneumonia (480)
21200	Pneumococcal and other bacterial pneumonia (481-482)
21300	Bronchopneumonia, organism unspecified (485)
21400	Pneumonia due to other and unspecified organism (483, 486)
21500	Influenza (487)
	Chronic obstructive pulmonary diseases and allied conditions (490-496)
	Bronchitis, chronic and unspecified, emphysema and asthma (490-493)
21800	Bronchitis, not specified as acute or chronic (490)
21900	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)
22500	Empyema and abscess of lung and mediastinum (510, 513)
22600	Pleurisy (511)
22700	All other diseases of respiratory system (512, 514-519)
	4.2
IX. Di	seases of the digestive system (520-579)
22900	Diseases of oral cavity, salivary glands, and jaws (520-529)
	Diseases of other parts of the digestive system (530-579)
	Ulcer of stomach and duodenum (531-533)
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)
	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)

### X. Diseases of the genitourinary system (580-629)

Diseases of urinary system (580-599)
Nephritis, nephrotic syndrome, and nephrosis (580-589)
25000 Acute glomerulonephritis (580)
Nephrotic syndrome (581)
25200 Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or
chronic, and renal sclerosis, unspecified (582-583, 587)
Renal failure, disorders resulting from impaired renal function, and small kidney of
unknown 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)
Diseases of male genital organs (600-608)
25800 Hyperplasia of prostate (600)
Other diseases of male genital organs (601-608)
26000 Disorders of breast (610-611)
26100 Diseases of female genital organs except breast (614-629)

### XI. Complications of pregnancy, childbirth, and the puerperium (630-676)

	Pregnancy with abortive outcome (630-638)
26400	Ectopic pregnancy (633)
26500	Spontaneous abortion (634)
26600	Legally induced abortion (635)
26700	Illegally induced abortion (636)
26800	Other pregnancy with abortive outcome (630-632, 637-638)
	Direct obstetric causes (640-646, 651-676)
27000	Hemorrhage of pregnancy and childbirth (640-641, 666)
27100	Toxemia of pregnancy (642.4-642.9, 643)
27200	Obstructed labor (660)
27300	Complications of the puerperium (670-676)
27400	Other direct obstetric causes (642.0-642.3, 644-646, 651-659, 661-665, 667-669)
27500	Indirect obstetric causes (647-648)

27600 Delivery in a completely normal case (650)

#### 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)

### 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)

### 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)

#### XV. Certain conditions originating in the perinatal period (760-779)

- 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)

### 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)

### XVII. Supplementary classification of external causes of injury and poisoning (E800-E999)

Accidents and adverse effects (E800-E949)

Transport accidents (E800-E848)

30200 Railway accidents (E800-E807)

	Motor vehicle accidents (E810-E825)
20500	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)
	Accidental poisoning (E850-E869)
31700	Accidental poisoning by drugs, medicaments, and biologicals (E850-E858)
31800	Accidental poisoning by other solid or liquid substances (E860-E866)
31900	Accidental poisoning by gases and vapors (E867-E869)
32000	Misadventures during medical care, abnormal reactions, and late complications
	(E870-E879)
	Accidental falls (E880-E888)
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)
	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 respiratory 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, steam, 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-E909,
	E913-E921, E927-E929)
33600	Drugs, medicaments, and biological substances causing adverse effects in therapeutic use
	(E930-E949)

	Suicide (E950-E959)
3380	Suicide by drugs, medicaments, and biologicals (E950.0-E950.5)
3390	Suicide by other solid or liquid substances (E950.6-E950.9)
34000	Suicide by gases and vapors (E951-E952)
3410	Suicide by hanging, strangulation, and suffocation (E953)
3420	Suicide by handgun (E955.0)
3430	Suicide by all other and unspecified firearms (E955.1-E955.4)
3440	Suicide by all other means and late effects of self-inflicted injury (E954, E955.5-E959)
	Homicide and legal intervention (E960-E978)
3460	Assault by handgun (E965.0)
3470	Assault by all other and unspecified firearms (E965.1-E965.4)
3480	Assault by cutting and piercing instrument (E966)
3490	Assault by all other means and late effects of injury purposely inflicted by other person
	(E960-E964, E965.5-E965.9, E967-E969)
35000	Legal execution (E978)
3510	Other legal intervention and late effects of injury due to legal intervention (E970-E977)
	Injury undetermined whether accidentally or purposely inflicted (E980-E989)
35300	From poisoning by drugs, medicaments, and biologicals (E980.0-E980.5)
3540	From poisoning by other solid or liquid substances (E980.6-E980.9)
3550	From injury by handgun (E985.0)
3560	From injury by all other and unspecified firearms (E985.1-E985.4)
3570	From injury by all other means and late effects of injury, undetermined whether accidentally
	or purposely inflicted (E981-E984, E985.5-E989)
35800	O Injury resulting from operations of war (E990-E999)

Recode	ICD-9 Title and Code
010	Shigellosis and amebiasis (004, 006)
020	Certain other intestinal infections (007-009)
	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	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, 046-054, 056-066, 071-088, 098-139)
	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 urinary 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 nature (210-239)
260	Diabetes mellitus (250)
270	Nutritional deficiencies (260-269)
280	Anemias (280-285)
290	Meningitis (320-322)
	Major cardiovascular diseases (390-448)
	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	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)
410	All other forms of heart disease (415-423, 425-429)
420	Hypertension with or without renal disease (401, 403)
	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)
	Pneumonia and influenza (480-487)
520	Pneumonia (480-486)
530	Influenza (487)
	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)
	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	Hyperplasia of prostate (600)
700	Complications of pregnancy, childbirth, and the puerperium (630-676)
710	Pregnancy with abortive outcome (630-638)
720	Other complications of pregnancy, childbirth, and the puerperium
	(640-676)
730	Congenital anomalies (740-759)
	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)
	Accidents and adverse effects (E800-E949)
800	Motor vehicle accidents (E810-E825)
810	All other accidents and adverse effects (E800-E807, E826-E949)
820	Suicide (E950-E959)
830	Homicide and legal intervention (E960-E978)
840	All other external causes (E980-E999)

#### Appendix B: 34 Causes of Death

Ninth Revision 34 Causes of Death Adapted for use by DVS

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

Length = of Cause Title Age: 1 = 5 & Over; 2 = 10-54; 3 = 28 Days & Over

\*\*\*\*\* Cause Subtotals are not Identified in this File \*\*\*\*\*

```
34
Recode
       T Sex Age gth Cause Title And ICD-9 Codes Included
 010
                  022 Tuberculosis (010-018)
 020
                  018 Syphilis (090-097)
 030
                  089 Residual of infectious and parasitic
                             diseases (001-009,020-041,*042-*044,045-088,098-139)
 040
                  089 Malignant neoplasms, including neoplasms of lymphatic and
                             hematopoietic tissues (140-208)
 050
                  066
                        Malignant neoplasms of digestive organs and peritoneum (150-159)
                  071
 060
                        Malignant neoplasms of respiratory and intrathoracic
                             organs (160-165)
 070
                  040
                        Malignant neoplasm of breast (174-175)
 080
                  049
                        Malignant neoplasms of genital organs (179-187)
 090
                  049
                        Malignant neoplasms of urinary organs (188-189)
 100
                  020
                        Leukemia (204-208)
 110
                  053
                        Other malignant neoplasms (140-149,170-173,190-203)
 120
                  023 Diabetes mellitus (250)
                  039 Major cardiovascular diseases (390-448)
 130
                        Diseases of heart (390-398,402,404-429)
                  041
 140
                  057
                          Rheumatic fever and rheumatic heart disease (390-398)
 150
                  070
                          Hypertensive heart disease with or without renal
 160
                             disease (402,404)
                  036
 170
                          Ischemic heart disease (410-414)
                  034
 180
                          Other heart diseases (415-429)
 190
                  054
                        Hypertension with or without renal disease (401,403)
 200
                  036
                        Cerebrovascular diseases (430-438)
                  023
                        Atherosclerosis (440)
 210
                        Other diseases of arteries, arterioles, and capillaries (441-448)
 220
                  067
 230
                  033 Pneumonia and influenza (480-487)
 240
                  070 Chronic obstructive pulmonary diseases and allied
                             conditions (490-496)
 250
                  039 Ulcer of stomach and duodenum (531-533)
                  041 Chronic liver disease and cirrhosis (571)
 260
 270
                  054 Nephritis, nephrotic syndrome, and nephrosis (580-589)
 280
               2 068 Complications of pregnancy, childbirth, and the puerperium (630-676)
 290
                  030 Congenital anomalies (740-759)
                  064 Certain conditions originating in the perinatal period (760-779)
 300
                  053 Symptoms, signs, and ill-defined conditions (780-799)
 310
 320
                  029 All other diseases (Residual)
 330
                  035 Motor vehicle accidents (E810-E825)
 340
                  061 All other accidents and adverse effects (E800-E807,E826-E949)
 350
               1 019 Suicide (E950-E959)
 360
                  043 Homicide and legal intervention (E960-E978)
 370
                  037 All other external causes (E980-E999)
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Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and over;

Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

Limited: Sex: 1 = Males; 2 = Females

ST: 1 = Subtotal

```
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 *****
358
         S Limited
Recode
         T Sex Age Cause Title and ICD-10 Codes Included
001
         1
                       I. Certain infectious and parasitic diseases (A00-B99)
002
                    Intestinal infectious diseases (A00-A09)
         1
003
                      Cholera (A00)
004
                      Other intestinal infectious diseases (A01-A08)
         1
005
                        Typhoid fever (A01.0)
006
                        Paratyphoid fevers and other salmonella infections (A01.1-A01.4,A02)
007
                        Shigellosis (A03)
800
                        Other bacterial food-borne intoxications (A05)
009
                        Amebiasis (A06)
010
                        Intestinal infections due to other specified organisms (A04,A07-A08)
011
                      Diarrhea and gastroenteritis of infectious origin (A09)
012
         1
                    Tuberculosis (A16-A19)
013
                      Respiratory tuberculosis (A16)
014
                      Other tuberculosis (A17-A19)
015
                    Zoonotic and other bacterial diseases (A20-A49)
         1
016
                      Plague (A20)
017
                      Brucellosis (A23)
018
                      Tetanus (A33-A35)
019
                      Diptheria (A36)
                      Whooping cough (A37)
020
                      Scarlet fever and erysipelas (A38,A46)
021
                      Meningococcal infection (A39)
022
023
                      Septicemia (A40-A41)
024
                      Other zoonotic and bacterial diseases (A21-A22, A24-A32, A42-A44,
                        A48-A49)
025
         1
                    Infections with a predominately sexual mode of transmission (A50-A64)
026
                      Syphilis (A50-A53)
027
                        Cardiovascular syphilis (A52.0)
028
                        Neurosyphilis (A52.1-A52.3)
029
                        Other and unspecified syphilis (A50-A51, A52.7-A52.9, A53)
030
                      Gonococcal infection (A54)
031
                        Other infections with a predominately sexual mode of transmission
                           (A55-A64)
032
         1
                    Other infections caused by spirochetes, chlamydia or rickettsia
                       (A65-A79)
033
                      Lyme disease (A69.2)
034
                      Typhus fever (A75)
035
                      All other infections caused by spirochetes, chlamydia or rickettsia
                         (A65-A68, A69.0-A69.1, A69.8-A69.9, A70-A74, A77-A79)
036
         1
                    Viral diseases (A80-B34)
037
                      Acute poliomyelitis (A80)
038
                      Rabies (A82)
039
                      Arthropod-borne viral encephalitis (A83-A84,A85.2)
040
                      Yellow fever (A95)
041
                      Other and unspecified arthropod-borne viral and hemorrhagic fevers
                        (A90-A94, A96-A99)
042
                      Herpesviral (herpes simplex) infections (B00)
                      Zoster (herpes zoster) (B02)
043
044
                      Smallpox (B03)
045
                      Measles (B05)
046
                      Rubella (German measles) (B06)
                      Viral hepatitis (B15-B19)
047
                      Human immunodeficiency virus (HIV) disease (B20-B24)
048
         1
                        Human immunodeficiency virus (HIV) disease resulting in infectious
049
                        and parasitic diseases (B20)
050
                        Human immunodeficiency virus (HIV) disease resulting in malignant
                          neoplasms (B21)
051
                        Human immunodeficiency virus (HIV) disease resulting in other specified
                          diseases (B22)
                        Human immunodeficiency virus (HIV) disease resulting in other conditions (B23)
052
053
                        Unspecified human immunodeficiency virus (HIV) disease (B24)
054
                     All other and unspecified viral diseases (A81,A85.0-A85.1,A85.8,
                               Page 20
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Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

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ST: 1 = Subtotal
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                                Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and 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 *****
358
         S Limited
Recode
         T Sex Age Cause Title and ICD-10 Codes Included
                       A86-A89, B01, B04, B07-B09, B25-B34)
055
                   Other and unspecified infectious and parasitic diseases and their sequelae (B35-B99)
056
                     Mycoses (B35-B49)
057
                     Protozoal diseases (B50-B64)
058
                       Malaria (B50-B54)
059
                       Leishmaniasis (B55)
060
                       Trypanosomiasis (B56-B57)
061
                       Pneumocystosis (B59)
062
                       Other and unspecified protozoal diseases (B58,B60-B64)
063
         1
                     Helminthiases (B65-B83)
064
                        Schistosomiasis (bilharziasis) (B65)
065
                        Other and unspecified helminthiases (B66-B83)
066
                     Sequelae of tuberculosis (B90)
                     Sequelae of poliomyelitis (B91)
067
068
                     All other and unspecified infectious and parasitic diseases and their sequelae
                       (B85-B89,B92-B99)
069
                               II. Neoplasms (C00-D48)
         1
070
                    Malignant neoplasms (C00-C97)
071
                      Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
                        Of lip (COO)
072
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)
                        Of stomach (C16)
078
079
                        Of small intestine (C17)
080
                        Of colon, rectum and anus (C18-C21)
081
                          Colon (C18)
                          Rectosigmoid junction and rectum (C19-C20)
082
083
                          Anus and anus canal (C21)
084
         1
                        Of liver and intrahepatic bile ducts (C22)
085
                          Liver (C22.0,C22.2-C22.9)
086
                          Intrahepatic bile duct carcinoma (C22.1)
087
                        Of gallbladder and extrahepatic bile ducts (C23-C24)
088
                        Of pancreas (C25)
                        Of other and ill-defined digestive organs (C26)
089
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
                      Melanoma and other malignant neoplasms of skin (C43-C44)
         1
098
                        Malignant melanoma of skin (C43)
099
                        Other malignant neoplasms of skin (C44)
100
                      Malignant neoplasms of mesothelial and soft tissue (C45-C49)
                        Mesothelioma (C45)
101
102
                        Kaposi's sarcoma (C46)
103
                        Of other mesothelial and soft tissue (C47-C49)
                      Malignant neoplasm of breast (C50)
104
105
                      Malignant neoplasms of female genital organs (C51-C58)
         1 2
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)
            2
                        Of ovary (C56)
109
            2
                        Of other and unspecified female genital organs (C57)
110
111
                2
                        Of placenta (C58)
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Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

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                                     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 *****
358
         S Limited
Recode
        T Sex Age Cause Title and ICD-10 Codes Included
112
                      Malignant neoplasms of male genital organs (C60-C63)
         1
            1
113
            1
                        Of prostate (C61)
114
            1
                        Of testis (C62)
115
                        Of penis and other and unspecified male genital organs (C60,C63)
            1
                      Malignant neoplasms of urinary tract (C64-C68)
116
         1
                        Of kidney and renal pelvis (C64-C65)
117
118
                        Of bladder (C67)
119
                        Of other and unspecified sites within the urinary tract (C66,C68)
120
                      Malignant neoplasm of eye and adnexa (C69)
                      Malignant neoplasms of meninges, brain and other parts of central nervous system
121
         1
                        (C70-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
                      Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)
         1
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)
133
                       Leukemia (C91-C95)
134
                         Lymphoid leukemia (C91)
135
                         Myeloid leukemia (C92)
136
                         Monocytic leukemia (C93)
                         Other and unspecified leukemia (C94-C95)
137
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
                   Benign neoplasms (D10-D36)
         1
             2
                     Of female genital organs (D25-D28)
142
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)
                   Neoplasms of uncertain or unknown behavior of unspecified sites (D48)
146
147
         1
                             III. Diseases of the blood and blood-forming organs and
                                  certain disorders involving the immune mechanism (D50-D89)
                   Anemias (D50-D64)
148
149
                     Nutritional anemias (D50-D53)
150
                     Hemolytic anemias (D55-D59)
151
                     Aplastic anemias (D60-D61)
                     Acute posthemorrhagic and other anemias (D62,D64)
152
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
                   Endocrine diseases (E00-E34)
158
                     Disorders of thyroid gland (E00-E07)
159
                     Diabetes mellitus (E10-E14)
160
                     Disorders of pituitary gland (E22-E23)
                     Disorders of adrenal glands (E24-E27)
161
162
                     Diseases of thymus (E32)
163
                     Other endocrine diseases (E15-E21,E28-E31,E34)
164
                   Nutritional diseases (E40-E68)
165
                     Malnutrition (E40-E46)
166
                       Nutritional marasmus (E41)
167
                       Other and unspecified malnutrition (E40,E42-E46)
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Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

ST: 1 = Subtotal

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Limited: Sex: 1 = Males; 2 = Females
                                Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and 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 *****
358
         S Limited
Recode
         T Sex Age Cause Title and ICD-10 Codes Included
168
                     Other nutritional deficiences (E50-E64)
                     Obesity and other hyperalimentation (E65-E68)
169
170
         1
                3 Metabolic disorders (E70-E88)
171
                     Cystic fibrosis (E84)
172
                     Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)
                     Other metabolic disorders (E70-E83,E85,E88)
173
174
                             V. Mental and behavioral disorders (F01-F99)
         1
175
                   Organic dementia (F01,F03)
176
                   Other and unspecified organic mental disorders (F04-F09)
177
                3 Mental and behavioral disorders due to psychoactive substance use
                     (F10-F19)
178
                3
                     Mental and behavioral disorders due to use of alcohol (F10)
179
                     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)
192
                   Transient cerebral ischemic attacks and related syndromes (G45)
193
                   Infantile cerebral palsy (G80)
194
                   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 (IOO-I99)
198
                   Acute rheumatic fever and chronic rheumatic heart diseases (IOO-IO9)
         1
199
                     Acute rheumatic fever (I00-I02)
200
         1
                     Chronic rheumatic heart diseases (IO5-IO9)
201
                       Rheumatic mitral valve diseases (IO5)
202
                       Rheumatic aortic valve diseases (IO6)
203
                       Disorders of both mitral and aortic valves (I08.0)
204
                       Other chronic rheumatic heart diseases (IO7,IO8.1-IO8.9,IO9)
205
         1
                   Hypertensive diseases (I10-I13)
                     Essential (primary) hypertension (I10)
206
207
                     Hypertensive heart disease (I11)
208
                     Hypertensive renal disease (I12)
209
                     Hypertensive heart and renal disease (I13)
210
                   Ischemic heart diseases (I20-I25)
         1
211
                     Acute myocardial infarction (I21-I22)
212
                     Other acute ischemic heart diseases (I24)
                     Other forms of chronic ischemic heart diseases (I20,I25)
213
214
                       Atherosclerotic cardiovascular disease, so described (I25.0)
215
                       All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)
216
         1
                   Other heart diseases (I26-I51)
217
                     Pulmonary heart disease and diseases of pulmonary circulation
                       (I26-I28)
                       Pulmonary embolism (I26)
218
219
                       Other pulmonary heart disease and diseases of pulmonary circulation (I27-I28)
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Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

Limited: Sex: 1 = Males; 2 = Females

ST: 1 = Subtotal

```
Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and 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 *****
358
         S Limited
Recode
         T Sex Age Cause Title and ICD-10 Codes Included
                     Other non-pulmonary forms of heart disease (I30-I51)
220
         1
221
                       Acute and subacute endocarditis (I33)
222
                       Diseases of pericardium and acute myocarditis (I30-I31,I40)
223
                       Other diseases of endocardium (I34-I38)
224
                         Nonrheumatic mitral valve disorders (I34)
225
                         Nonrheumatic aortic valve disorders (I35)
226
                         All other diseases of endocardium (I36-I38)
227
                       Cardiomyopathy (I42)
228
                       Conduction disorders and cardiac dysrhythmias (I44-I49)
                       Heart failure (I50)
229
         1
230
                          Congestive heart failure (I50.0)
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
                   Cerebrovascular diseases (I60-I69)
         1
                     Subarachnoid hemorrhage (I60)
Intracerebral and other intracranial hemorrhage (I61-I62)
235
236
237
                     Cerebral infarction (I63)
238
                     Stroke, not specified as hemorrhage or infarction (I64)
239
                     Other cerebrovascular diseases and their sequelae (I67,I69)
240
                   Diseases of arteries, arterioles and capillaries (I70-I78)
         1
241
                     Atherosclerosis (I70)
242
                     Aortic aneurysm and dissection (I71)
243
                     Other diseases of arteries, arterioles and capillaries (I70-I78)
244
                   Other disorders of circulatory system (I80-I99)
         1
245
                     Phlebitis, thrombophlebitis, venous embolism and thrombosis (I80-I82)
246
                     All other and unspecified disorders of circulatory system (183-199)
247
         1
                             X. Diseases of the respiratory system (J00-J98)
248
                   Acute upper respiratory infections (J00-J06)
                     Acute pharyngitis and tonsillitis (J02-J03)
249
250
                     Acute laryngitis and tracheitis ((J04)
251
                     Other and unspecified acute upper respiratory infections (J00-J01,J05-J06)
252
                   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)
                     Other acute lower respiratory infections (J20-J22)
258
         1
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)
                         Chronic bronchitis (J41-J42)
265
                3
266
                         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)
271
                        Pneumoconioses and chemical effects (J60-J66,J68)
272
                       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)
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Tenth Revision 358 Selected Causes of Death Adapted for use by DVS

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```
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                      ***** Cause Subtotals are not identified in this file *****
358
         S Limited
         T Sex Age Cause Title and ICD-10 Codes Included
Recode
279
         1
                             XI.
                                   Diseases of the digestive system (K00-K92)
280
                   Diseases of oral cavity, salivary glands and jaws (K00-K14)
                   Diseases of other parts of digestive system (K20-K92)
281
         1
282
                     Diseases of esophagus (K20-K22)
         1
283
                     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)
                     Dyspepsia and other diseases of stomach and duodenum (K30-K31)
289
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)
                     Diverticular disease of intestine (K57)
294
295
                     Other diseases of intestines and peritoneum (K52,K58-K63)
296
                     Diseases of peritoneum (K65-K66)
297
                     Diseases of liver (K70-K76)
         1
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)
                                    Diseases of the skin and subcutaneous tissue (L00-L98)
307
         1
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 (M00-M99)
                   Rheumatoid arthritis and related inflammatory polyarthropathies (M05-M08)
311
312
                   Systemic lupus erythematosus (M32)
313
                   Other arthropathies and related disorders (M00,M02,M10-M31,M33-M35)
314
                   Dorsopathies (M40-M54)
315
                   Soft tissue disorders (M60-M79)
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 (NOO-N98)
320
                   Diseases of urinary system (N00-N39)
         1
                     Glomerular and renal tubulo-interstitial diseases (NOO-N15)
321
         1
322
         1
                       Glomerular diseases (N00-N07)
323
                         Acute and rapidly progressive nephritic syndrome (N00-N01)
324
                         Nephrotic syndrome (NO4)
325
                         Other and unspecified glomerular diseases (N02-N03,N05-N07)
326
                       Renal tubulo-interstitial diseases (N10-N15)
327
                     Renal failure (N17-N19)
                     Urolithiasis (N20-N23)
328
                     Other and unspecified disorders of kidney (N25-N27)
329
330
                     Urinary tract infection, site not specified (N39.0)
                              Page 25
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358
         S Limited
         T Sex Age Cause Title and ICD-10 Codes Included
Recode
                     Other diseases of urinary system (N28-N36,N39.1-N39.9)
331
332
         1 1
                   Diseases of male genital organs (N40-N50)
333
                     Hyperplasia of prostate (N40)
            1
334
            1
                     Other diseases of male genital organs (N41-N50)
335
                   Disorders of breast (N60-N64)
            2
                   Disorders of female genital organs (N70-N98)
336
         1
337
            2
                     Inflammatory diseases of female pelvic organs (N70-N76)
                     Noninflammatory disorders of female genital tract (N80-N98)
338
            2
339
         1 2
                7
                                    Pregnancy, childbirth and the puerperium (000-099)
340
         1
            2
                   Pregnancy with abortive outcome (000-007)
341
            2
                     Ectopic pregnancy (000)
            2
                     Spontaneous abortion (003)
342
                7
343
            2
                7
                     Medical abortion (004)
344
            2
                7
                     Other abortion (005)
345
            2
                7
                     Other and unspecified pregnancy with abortive outcome (001-002,006-007)
                7
346
         1
            2
                  Other direct obstetric deaths (010-092)
347
            2
                7
                     Eclampsia and pre-eclampsia (011,013-016)
348
            2
                7
                     Hemorrhage of pregnancy and childbirth and placenta previa
                       (020,044-046,067,072)
                7
349
            2
                     Complications predominately related to the puerperium (085-092)
         1
                7
350
            2
                       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
                   Obstetric death of unspecified cause (095)
                7
354
            2
                   Other deaths related to pregnancy, childbirth and the puerperium
                     (096 - 097)
                7 Indirect obstetric deaths (098-099)
355
            2
356
                             XVI.
         1
                                     Certain conditions originating in the perinatal period
                                     (P00-P96)
                   Newborn affected by maternal factors and by complications of pregnancy,
357
                     labor and delivery (P00-P04)
358
                   Disorders related to short gestation and low birth weight, not elsewhere
                     classified (P07)
                   Birth trauma (P10-P15)
359
360
                   Intrauterine hypoxia and birth asphyxia (P20-P21)
361
                   Respiratory distress of newborn (P22)
362
                   Other respiratory conditions originating in the perinatal period
                      (P23-P28)
363
                   Infections specific to the perinatal period (P35-P39)
364
                   Other and unspecified conditions originating in the perinatal period
                     (P05,P08,P29,P50-P96)
365
         1
                             XVII. Congenital malformations, deformations and chromosomal
                                     abnormalities (Q00-Q99)
                   Anencephaly and similar malformations (Q00)
366
367
                   Spina bifida (Q05)
                   All other congenital malformations of nervous system (Q01-Q04,Q06-Q07)
368
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 (090)
374
                   All other chromosomal abnormalities, not elsewhere classified (Q91-Q99)
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358
         S Limited
         T Sex Age Cause Title and ICD-10 Codes Included
Recode
                                       Symptoms, signs and abnormal clinical and laboratory
375
         1
                              XVIII.
                                       findings, not elsewhere classified (R00-R99)
376
                   Senility (R54)
377
                   Ill-defined and unknown causes of mortality (R95-R99)
         1
378
                      Sudden infant death syndrome (R95)
379
                      Other ill-defined and unknown causes of mortality (R96-R99)
                   All other symptoms, signs and abnormal clinical and laboratory findings,
380
                     not elsewhere classified (R00-R53, R55-R94)
381
         1
                                    External causes of mortality (*U01-*U03, V01-Y89)
                   Accidents (unintentional injuries) (V01-X59,Y85-Y86)
382
                      Transport accidents (V01-V99, Y85)
383
         1
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
                       Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2,
         1
                          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
                            (V12-V14,V19.0,V19.2-V19.4-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)
393
                          Occupant of car, pickup truck or van involved in collision with
                            other motor vehicle (V42-V44, V49, V52-V54, V59)
                          Occupant of heavy transport vehicle or bus involved in collision
394
                            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)
                        Streetcar accidents (V82.2-V82.9)
398
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
                        Fall on same level (W00-W09,W18)
                        Fall from one level to another (W10-W17)
405
406
                       Unspecified fall (W19)
407
                      Accidental discharge of firearms (W32-W34)
408
                      Accidental explosion (W39-W40)
409
                      Accidental drowning and submersion (W65-W74)
                     Accidental inhalation and ingestion of food or other objects causing
410
                        obstruction of respiratory tract (W78-W80)
411
                      Other accidental and unspecified threats to breathing
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358
         S Limited
         T Sex Age Cause Title and ICD-10 Codes Included
Recode
                         (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)
                      Accidental contact with heat and hot substances (X10-X19)
415
416
                      Lightning (X33)
417
                      Earthquake, volcanic eruption, avalanche, landslide and other earth
                        movements (X34-X36)
418
                      Cataclysmic storm and flood (X37-X38)
                      Accidental poisoning and exposure to noxious substances (X40-X49)
419
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 substances (X45-X46,X48-X49)
422
                         Accidental poisoning by and exposure to other gases and vapors (X47)
                      All other and unspecified accidents
423
                         (W20-W31, W35-W38, W41-W64, W92-W99, X20-X32, X39, X50-X59, Y86)
424
                 1 Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
425
                      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)
                      Intentional self-harm (suicide) by hanging, strangulation and suffocation (X70)
428
                 1
                      Intentional self-harm (suicide) by discharge of firearms (X72-X74)
429
                 1
430
                 1
                      Intentional self-harm (suicide) by jumping from a high place (X80)
431
                      Intentional self-harm (suicide) by all other and unspecified means and
                        their sequelae (*U03, X71, X75-X79, X81-X84, X87.0)
                    Assault (homicide) (*U01-*U02,X85-Y09,X87.1)
432
         1
433
                      Assault (homicide) by drugs, biological substances and other and unspecified
                        noxious substances (*U01.6-*U01.7,X85-X90)
                      Assault (homicide) by hanging, strangulation and suffocation (X91) Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
434
435
436
                      Assault (homicide) by sharp object (X99)
437
                      Assault (homicide) by blunt object (Y00)
                      Assault (homicide) by bodily force (Y04)
438
439
                      Sexual assault (homicide) by bodily force (Y05)
440
                      Neglect, abandonment and other maltreatment syndromes (Y06-Y07)
                      Assault (homicide) by all other and unspecified means and their sequelae
441
                        (*\mathtt{U01.0} - *\mathtt{U01.3}, *\mathtt{U01.5}, *\mathtt{U01.8} - *\mathtt{U01.9}, *\mathtt{U02}, \mathtt{X92}, \mathtt{X96} - \mathtt{X98}, \ \mathtt{Y01} - \mathtt{Y03}, \mathtt{Y08} - \mathtt{Y09}, \mathtt{Y87.1})
                    Event of undetermined intent (Y10-Y34,Y87.2,Y89.9)
442
         1
443
                      Poisoning by and exposure to drugs and biological substances, undetermined intent
                         (Y10-Y14)
                      Poisoning by and exposure to other and unspecified solid or liquid substance
444
                        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)
                      Falling, jumping or pushed from a high place, undetermined intent (Y30)
447
                      All other and unspecified events of undetermined intent and their sequelae
448
                         (Y20-Y21,Y25-Y29,Y31-Y34,Y87.2,Y89.9)
449
                    Legal intervention (Y35, Y89.0)
450
                      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)
                    Complications of medical and surgical care (Y40-Y84,Y88)
453
         1
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-Y69,Y88.1)
456
                      Other complications of medical and surgical care and their sequelae
                         (Y70-Y84,Y88.2-Y88.3)
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113
        S Limited
        T Sex Age Cause Title and ICD-10 Codes Included
Recode
001
                    Salmonella infections (A01-A02)
002
                    Shigellosis and amebiasis (A03,A06)
003
                    Certain other intestinal infections (A04,A07-A09)
004
                    Tuberculosis (A16-A19)
005
                      Respiratory tuberculosis (A16)
006
                      Other tuberculosis (A17-A19)
007
                    Whooping cough (A37)
800
                    Scarlet fever and erysipelas (A38,A46)
                   Meningococcal infection (A39)
009
010
                   Septicemia (A40-A41)
011
                    Syphilis (A50-A53)
012
                    Acute poliomyelitis (A80)
013
                    Arthropod-borne viral encephalitis (A83-A84,A85.2)
014
                    Measles (B05)
015
                    Viral hepatitis (B15-B19)
016
                    Human immunodeficiency virus (HIV) disease (B20-B24)
017
                    Malaria (B50-B54)
018
                    Other and unspecified infectious and parasitic diseases and their sequelae
                      (A00, A05, A20-A36, A42-A44, A48-A49, A54-A79, A81-A82, A85.0-A85.1, A85.8,
                      A86-B04,B06-B09,B25-B49,B55-B99)
019
                    Malignant neoplasms (C00-C97)
        1
020
                      Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
021
                      Malignant neoplasm of esophagus (C15)
022
                      Malignant neoplasm of stomach (C16)
                     Malignant neoplasms of colon, rectum and anus (C18-C21)
Malignant neoplasms of liver and intrahepatic bile ducts (C22)
023
024
025
                      Malignant neoplasm of pancreas (C25)
026
                      Malignant neoplasm of larynx (C32)
                     Malignant neoplasms of trachea, bronchus and lung (C33-C34)
027
028
                      Malignant melanoma of skin (C43)
029
                      Malignant neoplasm of breast (C50)
030
           2
                      Malignant neoplasm of cervix uteri (C53)
                      Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)
031
           2
032
           2
                     Malignant neoplasm of ovary (C56)
033
                      Malignant neoplasm of prostate (C61)
034
                      Malignant neoplasms of kidney and renal pelvis (C64-C65)
035
                      Malignant neoplasm of bladder (C67)
                      Malignant neoplasms of meninges, brain and other parts of central nervous system
036
                        (C70-C72)
037
                      Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)
038
                       Hodgkin's disease (C81)
039
                        Non-Hodgkin's lymphoma (C82-C85)
040
                        Leukemia (C91-C95)
041
                        Multiple myeloma and immunoproliferative neoplasms (C88,C90)
                        Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related
042
                          tissue (C96)
                      All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,
043
                        C44-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)
                   Diabetes mellitus (E10-E14)
046
                   Nutritional deficiencies (E40-E64)
047
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 (I00-I78)
                      Diseases of heart (I00-I09,I11,I13,I20-I51)
054
                        Acute rheumatic fever and chronic rheumatic heart diseases (IOO-IO9)
055
056
                        Hypertensive heart disease (I11)
057
                        Hypertensive heart and renal disease (I13)
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113
        S Limited
Recode
       T Sex Age Cause Title and ICD-10 Codes Included
058
        1
                       Ischemic heart diseases (I20-I25)
059
                          Acute myocardial infarction (I21-I22)
060
                          Other acute ischemic heart diseases (I24)
061
                          Other forms of chronic ischemic heart disease (I20,I25)
                            Atherosclerotic cardiovascular disease, so described (I25.0)
062
063
                            All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)
064
                       Other heart diseases (I26-I51)
065
                          Acute and subacute endocarditis (I33)
066
                          Diseases of pericardium and acute myocarditis (I30-I31,I40)
067
                          Heart failure (I50)
068
                          All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)
069
                      Essential (primary) hypertension and hypertensive renal disease (I10,I12)
070
                      Cerebrovascular diseases (I60-I69)
071
                     Atherosclerosis (I70)
072
                      Other diseases of circulatory system (I71-I78)
073
                       Aortic aneurysm and dissection (I71)
074
                       Other diseases of arteries, arterioles and capillaries (I72-I78)
                   Other disorders of circulatory system (I80-I99)
075
076
                   Influenza and pneumonia (J10-J18)
077
                      Influenza (J10-J11)
078
                      Pneumonia (J12-J18)
079
                   Other acute lower respiratory infections (J20-J22)
        1
080
                      Acute bronchitis and bronchiolitis (J20-J21)
081
                      Unspecified acute lower respiratory infection (J22)
                   Chronic lower respiratory diseases (J40-J47)
Bronchitis, chronic and unspecified (J40-J42)
082
083
084
                      Emphysema (J43)
085
                      Asthma (J45-J46)
086
                     Other chronic lower respiratory diseases (J44,J47)
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
                   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
                   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 renal sclerosis unspecified (NO2-NO3,NO5-NO7,N26)
100
                      Renal failure (N17-N19)
101
                      Other disorders of kidney (N25,N27)
102
                   Infections of kidney (N10-N12,N13.6,N15.1)
103
           1
                   Hyperplasia of prostate (N40)
104
                   Inflammatory diseases of female pelvic organs (N70-N76)
105
           2
                   Pregnancy, childbirth and the puerperium (000-099)
        1
           2
106
                      Pregnancy with abortive outcome (000-007)
107
           2
                      Other complications of pregnancy, childbirth and the puerperium (010-099)
108
                   Certain conditions originating in the perinatal period (POO-P96)
109
                   Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
110
                   Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere
                      classified (R00-R99)
                   All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12,G23-G25,G31-H93,
111
                      K00-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
                      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)
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Tenth Revision 113 Selected Causes of Death Adapted for use by DVS

135

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ST: 1 = Subtotal
                     Limited: Sex: 1 = Males; 2 = Females
                              Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and 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 *****
113
        S Limited
Recode
       T Sex Age Cause Title and ICD-10 Codes Included
115
                       Other land transport accidents (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)
116
                       Water, air and space, and other and unspecified transport accidents and their
                         sequelae (V90-V99,Y85)
117
                     Nontransport accidents (W00-X59,Y86)
                       Falls (W00-W19)
118
                       Accidental discharge of firearms (W32-W34)
119
120
                       Accidental drowning and submersion (W65-W74)
121
                       Accidental exposure to smoke, fire and flames (X00-X09)
122
                       Accidental poisoning and exposure to noxious substances (X40-X49)
                       Other and unspecified nontransport accidents and their sequelae
123
                         (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)
124
                   Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
125
                     Intentional self-harm (suicide) by discharge of firearms (X72-X74)
               1
                     Intentional self-harm (suicide) by other and unspecified means and their sequelae
126
               1
                       (*U03,X60-X71,X75-X84,Y87.0)
127
                   Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)
128
                     Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
                     Assault (homicide) by other and unspecified means and their sequelae
129
                        (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)
130
                   Legal intervention (Y35,Y89.0)
                   Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)
131
        1
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)
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Complications of medical and surgical care (Y40-Y84,Y88)

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Tenth Revision 39 Selected Causes of Death Adapted for use by DVS

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Limited: Sex: 1 = Males; 2 = Females
ST: 1 = Subtotal
                              Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and 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 *****
39
        S Limited
Recode
       T Sex Age
                  Cause Title and ICD-10 Codes Included
001
                   Tuberculosis (A16-A19)
002
                   Syphilis (A50-A53)
003
                   Human immunodeficiency virus (HIV) disease (B20-B24)
004
                   Malignant neoplasms (C00-C97)
005
                     Malignant neoplasm of stomach (C16)
 006
                     Malignant neoplasms of colon, rectum and anus (C18-C21)
007
                     Malignant neoplasm of pancreas (C25)
 800
                     Malignant neoplasms of trachea, bronchus and lung (C33-C34)
009
                     Malignant neoplasm of breast (C50)
010
           2
                     Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)
011
           1
                     Malignant neoplasm of prostate (C61)
 012
                     Malignant neoplasms of urinary tract (C64-C68)
013
                     Non-Hodgkin's lymphoma (C82-C85)
                     Leukemia (C91-C95)
014
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
                   Diabetes mellitus (E10-E14)
                   Alzheimer's disease (G30)
017
018
                   Major cardiovascular diseases (I00-I78)
 019
                     Diseases of heart (I00-I09,I11,I13,I20-I51)
020
                       Hypertensive heart disease with or without renal disease (I11,I13)
021
                       Ischemic heart diseases (I20-I25)
022
                       Other diseases of heart (IOO-IO9,I26-I51)
                     Essential (primary) hypertension and hypertensive renal disease
023
                       (I10,I12)
024
                     Cerebrovascular diseases (I60-I69)
025
                     Atherosclerosis (I70)
                     Other diseases of circulatory system (I71-I78)
 026
                   Influenza and pneumonia (J10-J18)
027
028
                   Chronic lower respiratory diseases (J40-J47)
029
                   Peptic ulcer (K25-K28)
 030
                   Chronic liver disease and cirrhosis (K70,K73-K74)
 031
                   Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)
032
                   Pregnancy, childbirth and the puerperium (000-099)
033
                   Certain conditions originating in the perinatal period (P00-P96)
034
                   Congenital malformations, deformations and chromosomal abnormalities
                     (000-099)
                   Sudden infant death syndrome (R95)
 035
036
                   Symptoms, signs and abnormal clinical and laboratory findings, not
                     elsewhere classified (excluding Sudden infant death syndrome)
                     (R00-R94,R96-R99)
                   All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07,
037
                     E15-G25,G31-H93,I80-J06,J20-J39,J60-K22,K29-K66,K71-K72,
                     K75-M99,N10-N15,N20-N23,N28-N98)
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
                   Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
                   Assault (homicide) (*U01-*U02, X85-Y09, Y87.1)
041
042
                   All other external causes (Y10-Y36,Y87.2,Y89)
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