Third National Health and Nutrition Examination Survey (NHANES III) Linked Mortality File
Underlying and Multiple Cause of Death Codes

ICD_9REV Underlying Cause of Death for death years 1988-1998

The underlying cause of death is coded according to the 9th revision of the International Statistical Classification of Diseases, Injuries, and Causes of Death (ICD-9) for NHANES III respondent deaths occurring between 1988 and 1998. The variable ICD_9REV is a four position, left-justified character variable with an implied decimal point after the third position. For those ICD-9 causes that do not have a 4th digit, the 4th position of ICD_9REV is blank. For deaths due to injury or poisoning, the underlying cause of death is classified according to the intent or manner of death using ICD-9 external cause codes E800-E999; however, the actual E character is omitted from the **ICD_9REV** fields. Information on the nature of the fatal injury or poisoning is coded using ICD-9 codes 800-999 and can only be found in the multiple cause of death condition codes (COND_1 - COND_20 and RCOND_1 - RCOND_20). External cause of death codes (E800-E999) that appear in the multiple cause of death condition codes do contain E codes so that they may be distinguished from nature of injury codes (800-999).

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

ICD-9 Underlying Cause of Death Recodes

UCOD_282 Underlying Cause of Death Recode-282 groups for death years 1988-1998 (ICD-9)

UCOD_72 Underlying Cause of Death Recode-72 groups for death years 1988-1998 (ICD-9)

UCOD_34 Underlying Cause of Death Recode-34 groups for death years 1988-1998 (ICD-9)

ICD_10REV Underlying Cause of Death for death years 1999-2006

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 NHANES III respondent deaths occurring between 1999 and 2006. The variable ICD_10REV is a four position, left-justified character variable with an alpha character in the first position and an implied decimal point after the third position. For those ICD-10 causes that do not have a 3rd digit, the 4th position of ICD_10REV is blank. For deaths due to injury or poisoning, the underlying cause of death is classified according to intent or manner of death using U,V,W,X, and Y codes. Information on the nature and body region affected by the injury and poisoning is coded using S and T codes and can only be found in the multiple cause of death condition codes.

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

ICD-10 Underlying Cause of Death Recodes

UCOD_358 Underlying Cause of Death Recode-358 groups for death years 1999-2006 (ICD-10)

UCOD_39 Underlying Cause of Death Recode-39 groups for death years 1999-2006 (ICD-10)

UCOD_113 Underlying Cause of Death Recode-113 groups for death years 1988-2006 (ICD-10)

To assist the researcher with mortality analyses that span the entire NHANES III mortality period (1988-2006) all deaths from 1988 through 1998 were 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.

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. For ICD-10 condition codes, the 7th position will be blank. Records that do not have 20 conditions are blank in the unused area.

Position 1: Part/line number on certificate
ICD-9 and ICD-10 condition codes
1…. Part I, line 1 (a)
2…. Part I, line 2 (b)
3…. Part I, line 3 (c)
4…. Part I, line 4 (d)
5…. Part I, line 5 (e)
6…. Part II

Position 2: Sequence of condition within part/line
ICD-9 condition codes
1-9…. Code range

ICD-10 condition codes
1-7…. Code range

Positions 3-6: ICD-9 condition code for deaths occurring from 1988-1998
ICD-10 condition code for deaths occurring from 1999-2006

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.

Position 7: ICD-9 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

Note: ICD-10, the 7th position will be blank

RCOND_1 -- RCOND_20 Record axis multiple cause of death codes

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

Positions 1-4: ICD-9 condition code for deaths occurring from 1988-1998
ICD-10 condition code for deaths occurring from 1999-2006

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.

Position 5: ICD-9 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

Note: ICD-10, the 5th position will be blank

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)

03600 Neurosyphilis (094)
03700 All other syphilis (090-091, 095-097)
03800 Gonococcal infections (098)
03900 Other venereal diseases (099)
Other infectious and parasitic diseases and late effects of infectious and parasitic diseases (100-139)
04100 Mycoses (110-118)
04200 Helminthiases (120-129)
04300 Late effects of tuberculosis (137)
04400 Late effects of acute poliomyelitis (138)
04500 All other infectious and parasitic diseases and late effects of other infectious and parasitic diseases (100-104, 130-136, 139)

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)

07000	Of retroperitoneum, peritoneum, and other and ill-defined sites within the digestive organs and peritoneum (158-159)
	Malignant neoplasms of respiratory and intrathoracic organs (160-165)
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)
	Malignant neoplasms of bone, connective tissue, skin, and breast (170-175)
07600	Of bone and articular cartilage (170)
07700	Of connective and other soft tissue (171)
07800	Melanoma of skin (172)
07900	Other malignant neoplasms of skin (173)
08000	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 ovary and other uterine adnexa (183)
08600	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 bladder (188)
09200	Of kidney and other and unspecified urinary organs (189)
	Malignant neoplasms of other and unspecified sites (190-199)
09400	Of eye (190)
09500	Of brain (191)
09600	Of other and unspecified parts of nervous system (192)
09700	Of thyroid gland and other endocrine glands and related structures (193-194)
09800	Of all other and unspecified sites (195-199)
	Malignant neoplasms of lymphatic and hematopoietic tissues (200-208)
10000	Lymphosarcoma and reticulosarcoma (200)
10100	Hodgkin's disease (201)
10200	Other malignant neoplasms of lymphoid and histiocytic tissue (202)
10300	Multiple myeloma and immunoproliferative neoplasms (203)
	Leukemia (204-208)
10500	Lymphoid leukemia (204)
10600	Myeloid leukemia (205)

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. Endocrine, 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. Diseases 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)
13900 Purpura and other hemorrhagic conditions (287)

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

V. Mental disorders (290-319)

14200 Senile and presenile organic psychotic conditions (290)
14300 Alcoholic psychoses (291)
14400 All other psychoses (292-299)
14500 Alcohol dependence syndrome (303)
14600 Drug dependence (304)
14700 Other neurotic, personality, and nonpsychotic mental disorders (300-302, 305-316)
14800 Mental retardation (317-319)

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)
15400 Multiple sclerosis (340)
15500 Infantile cerebral palsy (343)
15600 Epilepsy (345)
15700 Other diseases of the nervous system (323-326, 341-342, 344, 346-359)
15800 Disorders of the eye and adnexa (360-379)
15900 Diseases of the ear and mastoid process (380-389)

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)
17500 Other acute and subacute forms of ischemic heart disease (411)
17600 Angina pectoris (413)
17700 Old myocardial infarction and other forms of chronic ischemic heart disease (412, 414)
17800 Diseases of pulmonary circulation (415-417)
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)
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)
18800 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)
19600 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)
20000 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)
20300 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)
20700 Other diseases of upper respiratory tract (470-478)

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)

IX. Diseases 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)
25100 Nephrotic syndrome (581)
25200 Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (582-583, 587)
25300 Renal failure, disorders resulting from impaired renal function, and small kidney of 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)
25900 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)
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)
33800 Suicide by drugs, medicaments, and biologicals (E950.0-E950.5)
33900 Suicide by other solid or liquid substances (E950.6-E950.9)
34000 Suicide by gases and vapors (E951-E952)
34100 Suicide by hanging, strangulation, and suffocation (E953)
34200 Suicide by handgun (E955.0)
34300 Suicide by all other and unspecified firearms (E955.1-E955.4)
34400 Suicide by all other means and late effects of self-inflicted injury (E954, E955.5-E959)
Homicide and legal intervention (E960-E978)
34600 Assault by handgun (E965.0)
34700 Assault by all other and unspecified firearms (E965.1-E965.4)
34800 Assault by cutting and piercing instrument (E966)
34900 Assault by all other means and late effects of injury purposely inflicted by other person (E960-E964, E965.5-E965.9, E967-E969)
35000 Legal execution (E978)
35100 Other legal intervention and late effects of injury due to legal intervention (E970-E977)
Injury undetermined whether accidentally or purposely inflicted (E980-E989)
35300 From poisoning by drugs, medicaments, and biologicals (E980.0-E980.5)
35400 From poisoning by other solid or liquid substances (E980.6-E980.9)
35500 From injury by handgun (E985.0)
35600 From injury by all other and unspecified firearms (E985.1-E985.4)
35700 From injury by all other means and late effects of injury, undetermined whether accidentally or purposely inflicted (E981-E984, E985.5-E989)
35800 Injury resulting from operations of war (E990-E999)

Appendix B: 72 Causes of Death Recode

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)

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	ST	Limited Sex	Limited Age	Length of Cause Title	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	1			089	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)
050				066	Malignant neoplasms of digestive organs and peritoneum (150-159)
060				071	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)
130	1			039	Major cardiovascular diseases (390-448)
140	1			041	Diseases of heart (390-398,402,404-429)
150				057	Rheumatic fever and rheumatic heart disease (390-398)
160				070	Hypertensive heart disease with or without renal disease (402,404)
170				036	Ischemic heart disease (410-414)
180				034	Other heart diseases (415-429)
190				054	Hypertension with or without renal disease (401,403)
200				036	Cerebrovascular diseases (430-438)
210				023	Atherosclerosis (440)
220				067	Other diseases of arteries, arterioles, and capillaries (441-448)
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)
260				041	Chronic liver disease and cirrhosis (571)
270				054	Nephritis, nephrotic syndrome, and nephrosis (580-589)
280	2		2	068	Complications of pregnancy, childbirth, and the puerperium (630-676)
290				030	Congenital anomalies (740-759)
300				064	Certain conditions originating in the perinatal period (760-779)
310				053	Symptoms, signs, and ill-defined conditions (780-799)
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)

Appendix B: 358 Selected Cause of Death

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

ST: 1 = Subtotal Limited: Sex: 1 = Males; 2 = Females
Age: 1 = 5 and over; 2 = 10-54; 3 = 28 days and over;
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***** Cause Subtotals are not identified in this file *****

358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
001	1			I. Certain infectious and parasitic diseases (A00-B99)
002	1			Intestinal infectious diseases (A00-A09)
003				Cholera (A00)
004	1			Other intestinal infectious diseases (A01-A08)
005				Typhoid fever (A01.0)
006				Paratyphoid fevers and other salmonella infections (A01.1-A01.4,A02)
007				Shigellosis (A03)
008				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	1			Zoonotic and other bacterial diseases (A20-A49)
016				Plague (A20)
017				Brucellosis (A23)
018				Tetanus (A33-A35)
019				Diptheria (A36)
020				Whooping cough (A37)
021				Scarlet fever and erysipelas (A38,A46)
022				Meningococcal infection (A39)
023		3		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	1			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)
043				Zoster (herpes zoster) (B02)
044				Smallpox (B03)
045				Measles (B05)
046				Rubella (German measles) (B06)
047				Viral hepatitis (B15-B19)
048	1			Human immunodeficiency virus (HIV) disease (B20-B24)
049				Human immunodeficiency virus (HIV) disease resulting in infectious and parasitic 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)
052				Human immunodeficiency virus (HIV) disease resulting in other conditions (B23)
053				Unspecified human immunodeficiency virus (HIV) disease (B24)
054				All other and unspecified viral diseases (A81,A85.0-A85.1,A85.8,

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358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
				A86-A89,B01,B04,B07-B09,B25-B34)
055	1			Other and unspecified infectious and parasitic diseases and their sequelae (B35-B99)
056				Mycoses (B35-B49)
057	1			Protozoal diseases (B50-B64)
058				Malaria (B50-B54)
059				Leishmaniasis (B55)
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			6	Sequelae of tuberculosis (B90)
067			6	Sequelae of poliomyelitis (B91)
068				All other and unspecified infectious and parasitic diseases and their sequelae (B85-B89,B92-B99)
069	1			II. Neoplasms (C00-D48)
070	1			Malignant neoplasms (C00-C97)
071	1			Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
072				Of lip (C00)
073				Of tongue (C01-C02)
074				Of pharynx (C10-C13,C14.0)
075				Of other and unspecified sites within the lip, oral cavity and pharynx (C03-C09,C14.2-C14.8)
076	1			Malignant neoplasms of digestive organs (C15-C26)
077				Of esophagus (C15)
078				Of stomach (C16)
079				Of small intestine (C17)
080				Of colon, rectum and anus (C18-C21)
081				Colon (C18)
082				Rectosigmoid junction and rectum (C19-C20)
083				Anus and anus canal (C21)
084	1			Of liver and intrahepatic bile ducts (C22)
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)
089				Of other and ill-defined digestive organs (C26)
090	1			Malignant neoplasms of respiratory and intrathoracic organs (C30-C39)
091				Of nasal cavity, middle ear and accessory sinuses (C30-C31)
092				Of larynx (C32)
093				Of trachea, bronchus and lung (C33-C34)
094				Of thymus, heart, mediastinum and pleura (C37-C38)
095				Of other and ill-defined sites in respiratory system and intrathoracic organs (C39)
096				Malignant neoplasms of bone and articular cartilage (C40-C41)
097	1			Melanoma and other malignant neoplasms of skin (C43-C44)
098				Malignant melanoma of skin (C43)
099				Other malignant neoplasms of skin (C44)
100	1			Malignant neoplasms of mesothelial and soft tissue (C45-C49)
101				Mesothelioma (C45)
102				Kaposi's sarcoma (C46)
103				Of other mesothelial and soft tissue (C47-C49)
104				Malignant neoplasm of breast (C50)
105	1	2		Malignant neoplasms of female genital organs (C51-C58)
106		2		Of vulva and vagina (C51-C52)
107		2		Of cervix uteri (C53)
108		2		Of corpus uteri and uterus, part unspecified (C54-C55)
109		2		Of ovary (C56)
110		2		Of other and unspecified female genital organs (C57)
111		2	2	Of placenta (C58)

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358 Recode	ST	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
112	1	1		Malignant neoplasms of male genital organs (C60-C63)
113		1		Of prostate (C61)
114		1		Of testis (C62)
115		1		Of penis and other and unspecified male genital organs (C60,C63)
116	1			Malignant neoplasms of urinary tract (C64-C68)
117				Of kidney and renal pelvis (C64-C65)
118				Of bladder (C67)
119				Of other and unspecified sites within the urinary tract (C66,C68)
120				Malignant neoplasm of eye and adnexa (C69)
121	1			Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)
122				Of brain (C71)
123				Of other parts of central nervous system (C70,C72)
124				Malignant neoplasms of thyroid and other endocrine glands (C73-C75)
125				Other malignant neoplasms of other and unspecified sites (C76-C80,C97)
126	1			Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)
127				Hodgkin's disease (C81)
128	1			Of other lymphoid, hematopoietic and related tissue (C82-C85,C96)
129				Non-Hodgkin's lymphoma (C82-C85)
130				Of other and unspecified lymphoid, hematopoietic and related tissue (C96)
131				Malignant immunoproliferative diseases (C88)
132				Multiple myeloma and malignant plasma cell neoplasms (C90)
133	1			Leukemia (C91-C95)
134				Lymphoid leukemia (C91)
135				Myeloid leukemia (C92)
136				Monocytic leukemia (C93)
137				Other and unspecified leukemia (C94-C95)
138	1			In situ neoplasms (D00-D09)
139				Carcinoma in situ of breast and genitourinary system (D05-D07)
140				Carcinoma in situ of other and unspecified sites (D00-D04,D09)
141	1			Benign neoplasms (D10-D36)
142		2		Of female genital organs (D25-D28)
143				Of eye, brain and other parts of central nervous system (D31-D33)
144				Of other and unspecified sites (D10-D24,D29-D30,D34-D36)
145				Neoplasms of uncertain or unknown behavior of specified sites (D37-D47)
146				Neoplasms of uncertain or unknown behavior of unspecified sites (D48)
147	1			III. Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)
148	1			Anemias (D50-D64)
149				Nutritional anemias (D50-D53)
150				Hemolytic anemias (D55-D59)
151				Aplastic anemias (D60-D61)
152				Acute posthemorrhagic and other anemias (D62,D64)
153				Coagulation defects, purpura and other hemorrhagic conditions (D65-D69)
154				Other diseases of blood and blood-forming organs (D70-D76)
155				Certain disorders involving the immune mechanism (D80-D89)
156	1			IV. Endocrine, nutritional and metabolic diseases (E00-E88)
157	1			Endocrine diseases (E00-E34)
158				Disorders of thyroid gland (E00-E07)
159		3		Diabetes mellitus (E10-E14)
160				Disorders of pituitary gland (E22-E23)
161				Disorders of adrenal glands (E24-E27)
162				Diseases of thymus (E32)
163				Other endocrine diseases (E15-E21,E28-E31,E34)
164	1			Nutritional diseases (E40-E68)
165	1			Malnutrition (E40-E46)
166				Nutritional marasmus (E41)
167				Other and unspecified malnutrition (E40,E42-E46)

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358 Recode	ST	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
168				Other nutritional deficiences (E50-E64)
169				Obesity and other hyperalimentation (E65-E68)
170	1		3	Metabolic disorders (E70-E88)
171				Cystic fibrosis (E84)
172				Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)
173				Other metabolic disorders (E70-E83,E85,E88)
174	1			V. Mental and behavioral disorders (F01-F99)
175				Organic dementia (F01,F03)
176				Other and unspecified organic mental disorders (F04-F09)
177	1		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			3	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 (I00-I99)
198	1			Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)
199				Acute rheumatic fever (I00-I02)
200	1			Chronic rheumatic heart diseases (I05-I09)
201				Rheumatic mitral valve diseases (I05)
202				Rheumatic aortic valve diseases (I06)
203				Disorders of both mitral and aortic valves (I08.0)
204				Other chronic rheumatic heart diseases (I07,I08.1-I08.9,I09)
205	1			Hypertensive diseases (I10-I13)
206				Essential (primary) hypertension (I10)
207				Hypertensive heart disease (I11)
208				Hypertensive renal disease (I12)
209				Hypertensive heart and renal disease (I13)
210	1			Ischemic heart diseases (I20-I25)
211				Acute myocardial infarction (I21-I22)
212				Other acute ischemic heart diseases (I24)
213				Other forms of chronic ischemic heart diseases (I20,I25)
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	1			Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)
218				Pulmonary embolism (I26)
219				Other pulmonary heart disease and diseases of pulmonary circulation (I27-I28)

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

358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
220	1			Other non-pulmonary forms of heart disease (I30-I51)
221				Acute and subacute endocarditis (I33)
222				Diseases of pericardium and acute myocarditis (I30-I31,I40)
223	1			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)
229	1			Heart failure (I50)
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	1			Cerebrovascular diseases (I60-I69)
235				Subarachnoid hemorrhage (I60)
236			3	Intracerebral and other intracranial hemorrhage (I61-I62)
237				Cerebral infarction (I63)
238				Stroke, not specified as hemorrhage or infarction (I64)
239				Other cerebrovascular diseases and their sequelae (I67,I69)
240	1			Diseases of arteries, arterioles and capillaries (I70-I78)
241				Atherosclerosis (I70)
242				Aortic aneurysm and dissection (I71)
243				Other diseases of arteries, arterioles and capillaries (I70-I78)
244	1			Other disorders of circulatory system (I80-I99)
245				Phlebitis, thrombophlebitis, venous embolism and thrombosis (I80-I82)
246				All other and unspecified disorders of circulatory system (I83-I99)
247	1			X. Diseases of the respiratory system (J00-J98)
248	1			Acute upper respiratory infections (J00-J06)
249				Acute pharyngitis and tonsillitis (J02-J03)
250				Acute laryngitis and tracheitis ((J04)
251				Other and unspecified acute upper respiratory infections (J00-J01,J05-J06)
252	1			Other diseases of the respiratory system (J10-J98)
253				Influenza (J10-J11)
254	1			Pneumonia(J12-J18)
255				Viral pneumonia, not elsewhere classified (J12)
256				Bacterial pneumonia (J13-J15)
257				Pneumonia due to other or unspecified organisms (J16,J18)
258	1			Other acute lower respiratory infections (J20-J22)
259				Acute bronchitis and bronchiolitis(J20-J21)
260				Unspecified acute lower respiratory infection (J22)
261				Other diseases of upper respiratory tract (J30-J39)
262	1			Chronic lower respiratory diseases (J40-J47)
263	1			Bronchitis, chronic and unspecified, emphysema and asthma (J40-J46)
264				Bronchitis, not specified as acute or chronic (J40)
265				Chronic bronchitis (J41-J42)
266			3	Emphysema (J43)
267				Other chronic obstructive pulmonary disease (J44)
268				Asthma (J45-J46)
269				Bronchiectasis (J47)
270	1			Lung diseases due to external agents (J60-J70)
271				Pneumoconioses and chemical effects (J60-J66,J68)
272	1			Pneumonitis due to solids and liquids (J69)
273				Pneumonitis due to food and vomit (J69.0)
274				Other pneumonitis due to solids and liquids (J69.1-J69.8)
275				Other lung diseases due to external agents (J67,J70)
276				Suppurative and necrotic conditions of lower respiratory tract (J85-J86)
277				Pleural effusion and plaque (J90, J92)
278				All other diseases of respiratory system (J80-J84,J93-J98)

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

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358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
279	1			XI. Diseases of the digestive system (K00-K92)
280				Diseases of oral cavity, salivary glands and jaws (K00-K14)
281	1			Diseases of other parts of digestive system (K20-K92)
282				Diseases of esophagus (K20-K22)
283	1			Peptic ulcer (K25-K28)
284				Gastric ulcer(K25)
285				Duodenal ulcer(K26)
286			3	Peptic ulcer, site unspecified (K27)
287				Gastrojejunal ulcer (K28)
288				Gastritis and duodenitis (K29)
289				Dyspepsia and other diseases of stomach and duodenum (K30-K31)
290				Diseases of appendix (K35-K38)
291				Hernia (K40-K46)
292				Crohn's disease and ulcerative colitis (K50-K51)
293				Vascular disorders and obstruction of intestine without hernia (K55-K56)
294				Diverticular disease of intestine (K57)
295				Other diseases of intestines and peritoneum (K52,K58-K63)
296				Diseases of peritoneum (K65-K66)
297	1			Diseases of liver (K70-K76)
298				Alcoholic liver disease (K70)
299				Chronic hepatitis, not elsewhere classified (K73)
300				Fibrosis and cirrhosis of liver (K74)
301				Other diseases of liver (K71-K72,K75-K76)
302				Cholelithiasis and other disorders of gallbladder (K80-K82)
303	1			Disorders of biliary tract and pancreas (K83-K86)
304				Pancreatitis (K85,K86.0-K86.1)
305				Other disorders of biliary tract and pancreas (K83,K86.2-K86.9)
306				All other diseases of digestive system (K90-K92)
307	1			XII. Diseases of the skin and subcutaneous tissue (L00-L98)
308				Infections of skin and subcutaneous tissue (L00-L08)
309				Other and unspecified diseases of skin and sub-cutaneous tissue (L10-L98)
310	1			XIII. Diseases of the musculoskeletal system and connective tissue (M00-M99)
311				Rheumatoid arthritis and related inflammatory polyarthropathies (M05-M08)
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 (N00-N98)
320	1			Diseases of urinary system (N00-N39)
321	1			Glomerular and renal tubulo-interstitial diseases (N00-N15)
322	1			Glomerular diseases (N00-N07)
323				Acute and rapidly progressive nephritic syndrome (N00-N01)
324				Nephrotic syndrome (N04)
325				Other and unspecified glomerular diseases (N02-N03,N05-N07)
326				Renal tubulo-interstitial diseases (N10-N15)
327				Renal failure (N17-N19)
328				Urolithiasis (N20-N23)
329				Other and unspecified disorders of kidney (N25-N27)
330				Urinary tract infection, site not specified (N39.0)

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358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
331				Other diseases of urinary system (N28-N36,N39.1-N39.9)
332	1	1		Diseases of male genital organs (N40-N50)
333		1		Hyperplasia of prostate (N40)
334		1		Other diseases of male genital organs (N41-N50)
335				Disorders of breast (N60-N64)
336	1	2		Disorders of female genital organs (N70-N98)
337		2		Inflammatory diseases of female pelvic organs (N70-N76)
338		2		Noninflammatory disorders of female genital tract (N80-N98)
339	1	2	7	XV. Pregnancy, childbirth and the puerperium (O00-O99)
340	1	2	7	Pregnancy with abortive outcome (O00-O07)
341		2	7	Ectopic pregnancy (O00)
342		2	7	Spontaneous abortion (O03)
343		2	7	Medical abortion (O04)
344		2	7	Other abortion (O05)
345		2	7	Other and unspecified pregnancy with abortive outcome (O01-O02,O06-O07)
346	1	2	7	Other direct obstetric deaths (O10-O92)
347		2	7	Eclampsia and pre-eclampsia (O11,O13-O16)
348		2	7	Hemorrhage of pregnancy and childbirth and placenta previa (O20,O44-O46,O67,072)
349	1	2	7	Complications predominately related to the puerperium (O85-O92)
350		2	7	Obstetric embolism (O88)
351		2	7	Other complications predominately related to the puerperium (O85-O87,O89-O92)
352		2	7	All other direct obstetric causes (O10,O12,O21-O43,O47-O66,O68-O71, O73-O75)
353		2	7	Obstetric death of unspecified cause (O95)
354		2	7	Other deaths related to pregnancy, childbirth and the puerperium (O96-O97)
355		2	7	Indirect obstetric deaths (O98-O99)
356	1			XVI. Certain conditions originating in the perinatal period (P00-P96)
357				Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)
358				Disorders related to short gestation and low birth weight, not elsewhere classified (P07)
359				Birth trauma (P10-P15)
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)
366				Anencephaly and similar malformations (Q00)
367				Spina bifida (Q05)
368				All other congenital malformations of nervous system (Q01-Q04,Q06-Q07)
369				Congenital malformations of heart (Q20-Q24)
370				Other congenital malformations of circulatory system (Q25-Q28)
371				Congenital malformations of respiratory system (Q30-Q34)
372				Other congenital malformations and deformations (Q10-Q18,Q35-Q89)
373				Down's syndrome (Q90)
374				All other chromosomal abnormalities, not elsewhere classified (Q91-Q99)

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358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
375	1			XVIII. Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
376				Senility (R54)
377	1			Ill-defined and unknown causes of mortality (R95-R99)
378			4	Sudden infant death syndrome (R95)
379				Other ill-defined and unknown causes of mortality (R96-R99)
380				All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94)
381	1			XX. External causes of mortality (*U01-*U03,V01-Y89)
382	1			Accidents (unintentional injuries) (V01-X59,Y85-Y86)
383	1			Transport accidents (V01-V99, Y85)
384				Railway accidents (V05,V15,V80.6,V81.2-V81.9,V80.3-V80.5, V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0, V89.2)
385	1			Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)
386				Pedestrian involved in collision with motor vehicle (V02-V04)
387				Pedalcyclist involved in collision with motor vehicle (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)
394				Occupant of heavy transport vehicle or bus involved in collision with other motor vehicle (V62-V64,V69,V72-V74,V79)
395				Occupant of motor vehicle involved in non-collision accident (V48,V58,V68,V78)
396				Occupant of special-use motor vehicle involved in any accident (V83-V86)
397				Other and unspecified motor vehicle accidents (V09.0,V09.2,V80.3-V80.5,V82.0-V82.1,V87.0-V87.5,V87.7-V87.8, V88.0-V88.5,V88.7-V88.8,V89.0,V89.2)
398				Streetcar accidents (V82.2-V82.9)
399				Other and unspecified land transport accidents (V01,V06,V09.1,V09.3,V09.9,V10-V11,V16-V18,V19.3,V19.8-V19.9, V80.0-V80.2,V80.7-V80.9,V87.9,V88.9,V89.1,V89.3,V89.9)
400				Water transport accidents (V90-V94)
401				Air and space transport accidents (V95-V97)
402				Other and unspecified transport accidents and their sequelae (V98-V99,Y85)
403	1			Falls (W00-W19)
404				Fall on same level (W00-W09,W18)
405				Fall from one level to another (W10-W17)
406				Unspecified fall (W19)
407				Accidental discharge of firearms (W32-W34)
408				Accidental explosion (W39-W40)
409				Accidental drowning and submersion (W65-W74)
410				Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)
411				Other accidental and unspecified threats to breathing

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358 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
				(W75-W77,W81-W84)
412				Accidental exposure to electrical current (W85-W87)
413				Accidental exposure to radiation (W88-W91)
414				Accidental exposure to smoke, fire and flames (X00-X09)
415				Accidental contact with heat and hot substances (X10-X19)
416				Lightning (X33)
417				Earthquake, volcanic eruption, avalanche, landslide and other earth movements (X34-X36)
418				Cataclysmic storm and flood (X37-X38)
419	1			Accidental poisoning and exposure to noxious substances (X40-X49)
420				Accidental poisoning by and exposure to drugs and other biological substances (X40-X44)
421				Accidental poisoning by and exposure to other and unspecified solid or liquids substances (X45-X46,X48-X49)
422				Accidental poisoning by and exposure to other gases and vapors (X47)
423				All other and unspecified accidents (W20-W31,W35-W38,W41-W64,W92-W99,X20-X32,X39,X50-X59,Y86)
424	1	1		Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
425		1		Intentional self-poisoning (suicide) by and exposure to drugs and other biological substances (X60-X64)
426		1		Intentional self-poisoning (suicide) by and exposure to other and unspecified solid or liquid substances and their vapors (X65-X66,X68-X69)
427		1		Intentional self-poisoning (suicide) by and exposure to other gases and vapors (X67)
428		1		Intentional self-harm (suicide) by hanging, strangulation and suffocation (X70)
429		1		Intentional self-harm (suicide) by discharge of firearms (X72-X74)
430		1		Intentional self-harm (suicide) by jumping from a high place (X80)
431		1		Intentional self-harm (suicide) by all other and unspecified means and their sequelae (*U03,X71,X75-X79,X81-X84,X87.0)
432	1			Assault (homicide) (*U01-*U02,X85-Y09,X87.1)
433				Assault (homicide) by drugs, biological substances and other and unspecified noxious substances (*U01.6-*U01.7,X85-X90)
434				Assault (homicide) by hanging, strangulation and suffocation (X91)
435				Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
436				Assault (homicide) by sharp object (X99)
437				Assault (homicide) by blunt object (Y00)
438				Assault (homicide) by bodily force (Y04)
439				Sexual assault (homicide) by bodily force (Y05)
440				Neglect, abandonment and other maltreatment syndromes (Y06-Y07)
441				Assault (homicide) by all other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5,*U01.8-*U01.9,*U02,X92,X96-X98, Y01-Y03,Y08-Y09,Y87.1)
442	1			Event of undetermined intent (Y10-Y34,Y87.2,Y89.9)
443				Poisoning by and exposure to drugs and biological substances, undetermined intent (Y10-Y14)
444				Poisoning by and exposure to other and unspecified solid or liquid substance undetermined intent (Y15-Y16,Y18-Y19)
445				Poisoning by and exposure to other gases and vapors, undetermined intent (Y17)
446				Discharge of firearms, undetermined intent (Y22-Y24)
447				Falling, jumping or pushed from a high place, undetermined intent (Y30)
448				All other and unspecified events of undetermined intent and their sequelae (Y20-Y21,Y25-Y29,Y31-Y34,Y87.2,Y89.9)
449	1			Legal intervention (Y35,Y89.0)
450				Legal intervention (Y35.5)
451				Other legal intervention and their sequelae (Y35.0-Y35.4,Y35.6-Y35.7,Y89.0)
452				Operations of war and their sequelae (Y36,Y89.1)
453	1			Complications of medical and surgical care (Y40-Y84,Y88)
454				Drugs, medicaments and biological substances causing adverse effects in therapeutic use and their sequelae (Y40-Y59,Y88.0)
455				Misadventures to patients during medical and surgical care and their sequelae (Y60-Y69,Y88.1)
456				Other complications of medical and surgical care and their sequelae (Y70-Y84,Y88.2-Y88.3)

Appendix B: 113 Selected Cause of Death

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113 Recode	S T	Limited Sex	Limited Age	Cause Title and ICD-10 Codes Included
001				Salmonella infections (A01-A02)
002				Shigellosis and amebiasis (A03,A06)
003				Certain other intestinal infections (A04,A07-A09)
004	1			Tuberculosis (A16-A19)
005				Respiratory tuberculosis (A16)
006				Other tuberculosis (A17-A19)
007				Whooping cough (A37)
008				Scarlet fever and erysipelas (A38,A46)
009				Meningococcal infection (A39)
010			3	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	1			Malignant neoplasms (C00-C97)
020				Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)
021				Malignant neoplasm of esophagus (C15)
022				Malignant neoplasm of stomach (C16)
023				Malignant neoplasms of colon, rectum and anus (C18-C21)
024				Malignant neoplasms of liver and intrahepatic bile ducts (C22)
025				Malignant neoplasm of pancreas (C25)
026				Malignant neoplasm of larynx (C32)
027				Malignant neoplasms of trachea, bronchus and lung (C33-C34)
028				Malignant melanoma of skin (C43)
029				Malignant neoplasm of breast (C50)
030		2		Malignant neoplasm of cervix uteri (C53)
031		2		Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)
032		2		Malignant neoplasm of ovary (C56)
033		1		Malignant neoplasm of prostate (C61)
034				Malignant neoplasms of kidney and renal pelvis (C64-C65)
035				Malignant neoplasm of bladder (C67)
036				Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)
037	1			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)
042				Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)
043				All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41, 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)
046			3	Diabetes mellitus (E10-E14)
047				Nutritional deficiencies (E40-E64)
048				Malnutrition (E40-E46)
049				Other nutritional deficiencies (E50-E64)
050				Meningitis (G00,G03)
051				Parkinson's disease (G20-G21)
052				Alzheimer's disease (G30)
053	1			Major cardiovascular diseases (I00-I78)
054	1			Diseases of heart (I00-I09,I11,I13,I20-I51)
055				Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)
056				Hypertensive heart disease (I11)
057				Hypertensive heart and renal disease (I13)

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058	1			Ischemic heart diseases (I20-I25)
059				Acute myocardial infarction (I21-I22)
060				Other acute ischemic heart diseases (I24)
061	1			Other forms of chronic ischemic heart disease (I20,I25)
062				Atherosclerotic cardiovascular disease, so described (I25.0)
063				All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)
064	1			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	1			Other diseases of circulatory system (I71-I78)
073				Aortic aneurysm and dissection (I71)
074				Other diseases of arteries, arterioles and capillaries (I72-I78)
075				Other disorders of circulatory system (I80-I99)
076	1			Influenza and pneumonia (J10-J18)
077				Influenza (J10-J11)
078				Pneumonia (J12-J18)
079	1			Other acute lower respiratory infections (J20-J22)
080				Acute bronchitis and bronchiolitis (J20-J21)
081				Unspecified acute lower respiratory infection (J22)
082	1			Chronic lower respiratory diseases (J40-J47)
083				Bronchitis, chronic and unspecified (J40-J42)
084			3	Emphysema (J43)
085				Asthma (J45-J46)
086				Other chronic lower respiratory diseases (J44,J47)
087				Pneumoconioses and chemical effects (J60-J66,J68)
088				Pneumonitis due to solids and liquids (J69)
089				Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)
090				Peptic ulcer (K25-K28)
091				Diseases of appendix (K35-K38)
092				Hernia (K40-K46)
093	1			Chronic liver disease and cirrhosis (K70,K73-K74)
094				Alcoholic liver disease (K70)
095				Other chronic liver disease and cirrhosis (K73-K74)
096				Cholelithiasis and other disorders of gallbladder (K80-K82)
097	1			Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)
098				Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)
099				Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,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		2		Inflammatory diseases of female pelvic organs (N70-N76)
105	1	2	7	Pregnancy, childbirth and the puerperium (O00-O99)
106		2	7	Pregnancy with abortive outcome (O00-O07)
107		2	7	Other complications of pregnancy, childbirth and the puerperium (O10-O99)
108				Certain conditions originating in the perinatal period (P00-P96)
109				Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
110				Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
111				All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12,G23-G25,G31-H93, 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	1			Transport accidents (V01-V99,Y85)
114				Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)

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7 = 10 years and over

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

113 Recode	S T	Limited Sex	Limited 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	1			Nontransport accidents (W00-X59,Y86)
118				Falls (W00-W19)
119				Accidental discharge of firearms (W32-W34)
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)
123				Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)
124	1		1	Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
125			1	Intentional self-harm (suicide) by discharge of firearms (X72-X74)
126			1	Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60-X71,X75-X84,Y87.0)
127	1			Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)
128				Assault (homicide) by discharge of firearms (*U01.4,X93-X95)
129				Assault (homicide) by other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)
130				Legal intervention (Y35,Y89.0)
131	1			Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)
132				Discharge of firearms, undetermined intent (Y22-Y24)
133				Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)
134				Operations of war and their sequelae (Y36,Y89.1)
135				Complications of medical and surgical care (Y40-Y84,Y88)

Appendix B: 39 Selected Cause of Death

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

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 *****

39 Recode	S T	Limited Sex	Limited 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	1			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)
008				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)
014				Leukemia (C91-C95)
015				Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-C81,C88,C90,C96-C97)
016			3	Diabetes mellitus (E10-E14)
017				Alzheimer's disease (G30)
018	1			Major cardiovascular diseases (I00-I78)
019	1			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 (I00-I09,I26-I51)
023				Essential (primary) hypertension and hypertensive renal disease (I10,I12)
024				Cerebrovascular diseases (I60-I69)
025				Atherosclerosis (I70)
026				Other diseases of circulatory system (I71-I78)
027				Influenza and pneumonia (J10-J18)
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		2	7	Pregnancy, childbirth and the puerperium (O00-O99)
033				Certain conditions originating in the perinatal period (P00-P96)
034				Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
035			4	Sudden infant death syndrome (R95)
036				Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)
037				All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07, 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			1	Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)
041				Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)
042				All other external causes (Y10-Y36,Y87.2,Y89)