

Underlying and Multiple Cause of Death Codes

ICD_9REV Underlying Cause of Death for death years 1986-1998

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 NHIS respondent deaths occurring between 1986 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 1986-1998 \(ICD-9\)](#)

[UCOD_72 Underlying Cause of Death Recode-72 groups for death years 1986-1998 \(ICD-9\)](#)

[UCOD_34 Underlying Cause of Death Recode-34 groups for death years 1986-1998 \(ICD-9\)](#)

ICD_10REV Underlying Cause of Death for death years 1999-2004

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 NHIS respondent deaths occurring between 1999 and 2004. 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.

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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 1999-2004 \(ICD-10\)](#)

[UCOD_39 Underlying Cause of Death Recode-39 groups for death years 1999-2004 \(ICD-10\)](#)

[UCOD_113 Underlying Cause of Death Recode-113 groups for death years 1986-2004 \(ICD-10\)](#)

To assist the researcher with mortality analyses that span the entire NHIS mortality period (1986-2004) all deaths from 1986 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.

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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

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Positions 3-6: ICD-9 condition code for deaths occurring from 1986-1998
ICD-10 condition code for deaths occurring from 1999-2004

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 1986-1998
ICD-10 condition code for deaths occurring from 1999-2004

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

282 Causes of Death Recode

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)

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- 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)

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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)

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- 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)

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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)

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- 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)

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- 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)

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- 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)

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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)

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- 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)
 - 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)

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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)

72 Causes of Death Recode

<u>Recode</u>	<u>ICD-9 Title and Code</u>
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)

72 Causes of Death Recode

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)

72 Causes of Death Recode

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)

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	S	Limited Len-		
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	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)

