

**Table 1**  
**Status of Death Registries in Countries of the Americas for the Latest Three Years of Available Information, around 2000**

Country	Latest 3 Years available	Registered deaths (average)	Crude death rate <sup>1</sup>		Estimated under registration (%)
			Registered	Estimated	
<b>None or Low</b>					
Argentina	2001-2003	292881	7.8	7.8	-
Belize	1999-2001	1328	5.5	5.0	-
Chile	2001-2003	82207	5.2	5.2	-
Costa Rica	2001-2003	20738	5.1	5.1	-
Ecuador	2001-2003	54710	4.3	4.3	-
Guatemala	2001-2003	66874	5.7	5.7	-
Martinique	2000,2001	2720	7.0	7.0	-
Netherlands Antilles (Curaçao)	1990,95,00	990	7.0	6.7	-
Saint Vincent	1998-2000	788	6.8	6.8	-
Trinidad and Tobago	1998-2000	9709	7.6	7.3	-
United States	2000-2002	2421054	8.4	8.4	-
Venezuela	2000-2002	108923	4.4	4.4	-
French Guiana	2000,2001	655	3.9	3.9	-
Guadeloupe	2000,2001	2793	6.5	6.5	-
Virgin Islands (US)	2000-2002	621	5.6	5.6	0.3
Canada	2000-2002	220401	7.1	7.2	1.2
Uruguay	1999-2001	31326	9.4	9.6	2.6
Cuba	2001-2003	77237	6.9	7.1	3.2
Barbados	1995,00,01	2214	8.4	8.8	5.1
Puerto Rico	2000-2002	29457	7.4	8.1	9.0
Mexico	2001-2003	456459	4.4	4.9	9.7
<b>Intermediate</b>					
Brazil	2000-2002	963556	5.5	6.2	11.6
Panama	2001-2003	12706	4.1	5.0	17.4
St. Lucia	2000-2002	896	5.8	7.6	17.8
<b>High</b>					
Colombia	1999-2001	187348	4.4	5.7	22.3
Bahamas	1998-2000	1659	5.6	7.3	23.5
El Salvador	2001-2003	28815	4.4	5.9	24.5
Suriname	1990-1992	2057	5.1	6.8	25.2
Paraguay	2001-2003	19038	3.3	4.5	26.9
Guyana	1989,95,96	5126	7.0	9.9	29.4
Jamaica	1989-1991	11848	5.0	7.1	29.6
Dominican Republic	2000-2002	25278	3.0	5.2	42.2
Nicaragua	2000-2002	14303	2.8	5.0	43.3
Peru	1998-2000	87467	3.4	6.5	47.8
Honduras	1989,1990	13809	2.9	7.2	60.0
Haiti	2001-2003	8422	1.0	9.8	89.5

1. Rate per 1,000 population. For the Bahamas, Barbados, Belize, Canada, Guyana, Jamaica, Netherlands Antilles, Puerto Rico, Saint Lucia, St. Vincent, Suriname, Trinidad and Tobago, United States, and Virgin Islands (US), the estimated rates are from the *World Population Prospects: The 2004 Revision, Vol. 1: Comprehensive Tables*, Population Division, United Nations, New York, 2005.

**Table 2**  
**Percent of Registered Deaths assigned to Symptoms, Signs and Ill-Defined Conditions  
(SSI) (ICD-9: 780-799 ICD-10: R00-R99), around 1985 and 2000**

Country	Latest 3 Years	Cumulative Deaths	SSI % Around 2000	SSI % Around 1985
<b>SSI Less than 5%, 2000</b>				
Cuba	2001-2003	231712	0.7	0.2
Puerto Rico	2000-2002	85371	0.9	0.8
Venezuela	2000-2002	326769	0.9	12.7
United States	2000-2002	7263183	1.3	1.5
Canada	2000-2002	661203	1.3	1.5
Montserrat	2001-2003	149	1.3	...
Costa Rica	2001-2003	62213	1.4	3.4
Bahamas	1998-2000	4976	1.4	2.5
Bermuda	1998-2000	1471	1.5	4.8
Virgin Islands (US)	2000-2002	1863	1.6	...
Cayman Islands	1998-2000	382	1.8	2.8
Trinidad and Tobago	1998-2000	29128	1.9	2.6
Saint Vincent	1998-2000	2365	2.1	12.0
Colombia	1999-2001	562045	2.1	5.4
Mexico	2001-2003	1369376	2.1	4.5
Virgin Islands (UK)	1996-1998	256	2.3	5.5
Guyana	1989,95,96	15379	2.4	6.9
Chile	2001-2003	246622	3.1	8.3
Barbados	195,00,01	6641	3.5	3.6
Belize	1999-2001	3984	3.5	10.5
Nicaragua	2000-2003	42908	3.6	...
Netherlands Antilles (Curaçao)	1990,95,00	2969	4.8	...
<b>SSI Between 5% - 10%, 2000</b>				
St. Kitts and Nevis	1996,1997	1983	5.3	11.9
Antigua	1994,95,00	1307	6.8	14.7
St. Lucia	2000-2002	2687	7.1	11.0
Argentina	2001-2003	878642	7.2	2.9
Martinique	2000,2001	5440	7.5	...
Uruguay	1999-2001	93978	7.7	7.3
Uruguay	1996, 99, 2000	93996	7.5	7.3
Panama	2001-2003	38118	8.2	8.8
Guadeloupe	2000,2001	5588	8.7	...
Dominica	1998-2000	1639	8.8	13.3
<b>SSI Between 10% - 15%, 2000</b>				
Guatemala	2001-2003	200622	10.3	12.3
Dominican Republic	2000-20002	75833	10.3	14.8
Aruba	1990, 95, 00	905	11.7	...
Ecuador	2001-2003	164131	12.6	15.4
El Salvador	2001-2003	86445	12.8	22.5
Jamaica	1989-1991	35543	12.9	11.6
Grenada	1985,88,89	2288	13.1	...
Brazil	2000-2002	2890667	14.0	21.3
Suriname	1990-1992	6171	14.1	16.1
<b>SSI Over 15%, 2000</b>				
Turks and Caicos Islands	2000-2002	168	15.5	8.1
Peru	1998-2000	262401	15.8	26.8
Anguilla	1995,00,01	178	16.3	6.1
Paraguay	2001-2003	57113	20.3	20.7
Honduras	1989, 1990	27617	32.2	...
Haiti	2001-2003	25267	32.2	...
French Guiana	2000, 2001	1310	58.9	13.9

**Table 3**  
**List A9 of cause groups used by PAHO for collection of ICD-9 mortality data**

A9 Code	Cause	ICD-9 codes	A9 Code	Cause	ICD-9 codes
00	<b>All causes</b>		07.3	Filarial infection and dracontiasis	125
01	Intestinal infectious diseases	001-009	07.4	Ancylostomiasis and necatoriasis	126
01.1	Cholera	001	07.5	Other helminthiases	121, 123, 124,
01.2	Typhoid fever	002.0			127-129
01.3	Paratyphoid fever	002.1-002.9	07.9	Residual	100-104,
01.4	Shigellosis	004			110-112,
01.5	Food poisoning	003, 005			114-118,
01.6	Amebiasis	006			130-139
01.7	Other and ill-defined intestinal infections	007-009	08	<b>Malignant neoplasm of lip, oral cavity, and pharynx</b>	140-149
02	<b>Tuberculosis</b>	010-018	09	Malignant neoplasm of digestive organs and peritoneum	150-159
02.1	Tuberculosis of the respiratory system	010-012	09.1	Malignant neoplasm of esophagus	150
02.2	Tuberculosis of meninges and central nervous system	013	09.2	Malignant neoplasm of stomach	151
02.3	Tuberculosis of intestines, peritoneum, and mesenteric glands	014	09.3	Malignant neoplasm of colon	153
02.4	Tuberculosis of bones and joints	015	09.4	Malignant neoplasm of rectum, rectosigmoid junction, and anus	154
02.5	Tuberculosis of genitourinary system	016	09.5	Malignant neoplasm of liver, specified as primary	155.0
02.9	Residual	017,018	09.9	Residual	152, 155.1-159
03	<b>Other bacterial diseases</b>	020-041	10	<b>Malignant neoplasm of respiratory and intrathoracic organs</b>	160-165
03.1	Plague	020	10.1	Malignant neoplasm of larynx	161
03.2	Leprosy	030	10.2	Malignant neoplasm of trachea, bronchus, and lung	162
03.3	Diphtheria	032	10.9	Residual	160, 163-165
03.4	Whooping cough	033	11	<b>Malignant neoplasm of bone, connective tissue, skin, and breast</b>	170-175
03.5	Streptococcal sore throat, scarlatina and erysipelas	034, 035	11.1	Malignant neoplasm of bone and articular cartilage	170
03.6	Meningococcal infection	036	11.2	Malignant melanoma of skin	172
03.7	Tetanus	037	11.3	Malignant neoplasm of the female breast	174
03.8	Septicemia	038	11.9	Residual	171, 173, 175
03.9	Residual	021-027, 031, 039-041	12	<b>Malignant neoplasm of genitourinary organs</b>	179-189
04	<b>Viral Diseases</b>	045-079	12.1	Malignant neoplasm of cervix uteri	180
04.1	Acute poliomyelitis	045	12.2	Malignant neoplasm of placenta	181
04.2	Smallpox	050	12.3	Malignant neoplasm of uterus, other and unspecified parts	179, 182
04.3	Measles	055	12.4	Malignant neoplasm of prostate	185
04.4	Yellow fever	060	12.5	Malignant neoplasm of bladder	188
04.5	Arthropod-borne encephalitis	062-064	12.9	Residual	183, 184, 186, 187, 189
04.6	Viral hepatitis	070	13	<b>Malignant neoplasm if other and unspecified sites</b>	190-199
04.7	Rabies	071	14	Malignant neoplasm of lymphatic and hemopoietic tissue	200-208
04.9	Residual	046-049, 051-054, 056, 057, 061, 065, 066, 072-079	14.1	Leukemia	204-208
05	<b>Rickettsioses and other arthropod-borne diseases</b>	080-088	14.9	Residual	200-203
05.1	Louse-borne epidemic typhus	080	15	<b>Benign neoplasm</b>	210-229
05.2	Other rickettsioses	081-083	16	<b>Carcinoma in situ</b>	230-234
05.3	Malaria	084	17	<b>Other and unspecified neoplasm</b>	235-239
05.4	Trypanosomiasis	086	18	<b>Endocrine and metabolic diseases, immunity disorders</b>	240-259, 270-279
05.9	Residual	085, 087, 088	18.1	Diabetes mellitus	250
06	<b>Venereal diseases</b>	090-099			
06.1	Syphilis	090-097			
06.2	Gonococcal infections	098			
06.9	Residual	099			
07	<b>Other infectious and parasitic diseases and their late effects</b>	100-139			
07.1	Shistosomiasis	120			
07.2	Echinococcosis	122			

**Table 3 (cont.)**  
**List A9 of cause groups used by PAHO for collection of ICD-9 mortality data**

A9 code	Cause	ICD-9 codes	A9 code	Cause	ICD-9 codes
18.9	Residual	240-246, 251-259, 270-279	32.1	Acute bronchitis and bronchiolitis	466
			32.2	Pneumonia	480-486
			32.3	Influenza	487
19	<b>Nutritional deficiencies</b>	260-269	32.4	Bronchitis, chronic and unspecified, emphysema and asthma	490-493
19.1	Kwashiorkor	260	32.9	Residual	494-496,
19.2	Nutritional marasmus	261			500-508,
19.3	Other protein-calorie malnutrition	262, 263			510-519
19.4	Avitaminosis	264-269			
20	<b>Diseases of blood and blood-forming organs</b>	280-289	33	<b>Diseases of oral cavity, salivary glands, and jaws</b>	520-529
20.1	Anemias	280-285	34	<b>Diseases of other parts of the digestive system</b>	530-579
20.9	Residual	286-289	34.1	Diseases of esophagus	530
21	<b>Mental disorders</b>	290-319	34.2	Ulcer of stomach and duodenum	531-533
21.1	Psychoses	290-299	34.3	Appendicitis	540-543
21.2	Alcohol dependence syndrome and drug dependence	303, 304	34.4	Abdominal hernia, and intestinal obstruction without mention of hernia	550-553, 560
21.3	Mental retardation	317-319	34.5	Chronic liver disease and cirrhosis	571
21.9	Residual	300-302, 305-316	34.6	Cholelithiasis and cholecystitis	574-575.1
			34.9	Residual	534-537,
22	<b>Diseases of the nervous system</b>	320-359			555-558, 562,
22.1	Meningitis	320-322			564-570, 572,
22.2	Multiple sclerosis	340			573, 575.2-
22.3	Epilepsy	345			579
22.9	Residual	323-326, 330-337, 341-344, 346-359	35	<b>Diseases of urinary system</b>	580-599
			35.1	Nephritis, nephrotic syndrome, and nephrosis	580-589
23	<b>Disorders of the eye and adnexa</b>	360-379	35.2	Infections of kidney	590
24	Diseases of the ear and mastoid process	380-389	35.9	Residual	591-599
25	Rheumatic fever and rheumatic heart disease	390-398	36	<b>Diseases of male genital organs</b>	600-608
25.1	Acute rheumatic fever	390-392	36.1	Hyperplasia of prostate	600
25.2	Chronic rheumatic heart disease	393-398	36.9	Residual	601-608
26	<b>Hypertensive disease</b>	401-405	37.1	<b>Diseases of female genital organs</b>	610-629
26.1	Hypertensive heart disease	402, 404	37.9	Diseases of breast	610, 611
26.9	Residual	401, 403, 405	38	Residual	614-629
27	<b>Ischemic heart disease</b>	410-414	38.1	Abortion	630-639
27.1	Acute myocardial infarction	410	38.2	Spontaneous abortion	634
27.9	Residual	411-414	38.9	Legally induced abortion	635
28	<b>Diseases of pulmonary circulation and other forms of heart disease</b>	415-429	39	Residual	630-633,
29	Cerebrovascular disease	430-438	39.1	<b>Direct obstetric causes</b>	636-639
30	<b>Other diseases of the circulatory System</b>	440-459	39.2	Hemorrhage of pregnancy and childbirth	640-646,
30.1	Atherosclerosis	440	39.3	Toxemia of pregnancy	651-676
30.2	Arterial embolism, thrombosis, other diseases of arteries, arterioles, Capillaries	441-448	39.9	Complications of puerperium	640, 641, 666
30.3	Phlebitis, thrombophlebitis, venous embolism and thrombosis	451-453		Residual	642.4-642.9,
30.9	Residual	454-459	40	<b>Indirect obstetric causes</b>	643
31	<b>Diseases of the upper respiratory tract</b>	460-465, 470-478	41	Normal delivery	670-676
31.1	Acute infections excluding bronchitis and bronchiolitis	460-465	42	<b>Diseases of skin and subcutaneous tissue</b>	642.0-642.3,
		470-478	43	Diseases of the musculoskeletal system and connective tissue	644-646,
31.9	Residual		44	Congenital anomalies	651-665,
32	<b>Other diseases of the respiratory system</b>	466, 480-519	44.1	Spina bifida and hydrocephalus	667-669
					710-739
					740-759
					741, 742.3

**Table 3 (cont.)**  
**List A9 of cause groups used by PAHO for collection of ICD-9 mortality data**

A9 code	Cause	ICD-9 codes	A9 code	Cause	ICD-9 codes
44.2	Other deformities of central nervous system	740, 742.0- 742.2, 742.4- 742.9	47.1	Motor vehicle traffic accidents	E810-E819
44.3	Congenital anomalies of heart and circulatory system	745-747	47.9	Residual	E800-E807, E820-E838, E840-E848
44.9	Residual	743, 744, 748-759	48	<b>Accidental poisoning</b>	E850-E869
45	<b>Certain conditions originating in the perinatal period</b>	760-779	49	<b>Misadventures during medical care, and abnormal reactions</b>	E870-E879
45.1	Maternal conditions affecting fetus or newborn	760	50	Accidental falls	E880-E888
45.2	Obstetric complications affecting fetus or newborn	761-763	51	Accidents caused by fire and flames	E890-E899
45.3	Slow fetal growth, fetal malnutrition and immaturity	764, 765	52	<b>Other accidents, including late effects</b>	E900-E929
45.4	Birth trauma	767	52.1	Accidental drowning and submersion	E910
45.5	Hypoxia, asphyxia, other respiratory conditions of fetus or newborn	768-770	52.2	Accidents caused by machinery and cutting and piercing instruments	E919, E920
45.6	Hemolytic disease of fetus or newborn	773	52.3	Accidents caused by firearm missile	E922
45.9	Residual	766, 771 , 772, 774-779	52.9	Residual	E900-E909, E911-E918, E921, E923- E929
46	<b>Signs, symptoms, and ill-defined conditions</b>	780-799	53	<b>Drugs, medicaments causing adverse effects in therapeutic use</b>	E930-E949
46.1	Senility without mention of psychosis	797	54	<b>Suicide and self-inflicted injury</b>	E950-E959
46.2	Sudden infant death syndrome	798.0	55	<b>Homicide and injury purposely inflicted by other persons</b>	E960-E969
46.9	Residual	780-796, 798.1-799	56	<b>Other violence</b>	E970-E999
47	<b>Transport accidents</b>	E800-E848	56.1	Injury undetermined whether accidentally or purposely inflicted	E980-E989
			56.2	Injury resulting from operations of war	E990-E999
			56.9	Injury due to legal intervention	E970-E978

**Table 4**  
**List M9 of cause groups for abbreviated tabulation of ICD-9 mortality data**

M9 code	Cause	ICD-9 codes	M9 code	Cause	ICD-9 codes
00	All causes		44	Other diseases of nervous system and sense organs	323-389
01	Cholera	001	45	Acute rheumatic fever	390-392
02	Typhoid fever	002.0	46	Chronic rheumatic heart disease	393-398
03	Paratyphoid fever and food poisoning	002.1-002.9, 003, 005	47	Hypertensive disease	401 -405
04	Shigellosis and amebiasis	004, 006	48	Acute myocardial infarction	410
05	Other intestinal infections	007-009	49	Other ischemic heart disease	411-414
06	Tuberculosis of respiratory system	010-012	50	Diseases of pulmonary circulation and other heart disease	415-429
07	Other tuberculosis	013-018	51	Cerebrovascular disease	430-438
08	Plague	020	52	Atherosclerosis .	440
09	Diphtheria	032	53	Other diseases of circulatory system	441 -459
10	Whooping cough	033	54	Pneumonia	480-486
11	Meningococcal infection	036	55	Influenza	487
12	Tetanus	037	56	Bronchitis, emphysema, and asthma	490-493
13	Septicemia	038	57	Other diseases of respiratory system	460-478,
14	Acute poliomyelitis	045			494-519
15	Smallpox	050			
16	Measles	055	58	Ulcer of stomach and duodenum	531-533
17	Yellow fever	060	59	Appendicitis	540-543
18	Arthropod-borne encephalitis	062-064	60	Intestinal obstruction and hernia	550-553,
19	Viral hepatitis	070			560
20	Rabies	071	61	Chronic liver disease and cirrhosis	571
21	Malaria	084	62	Other diseases of digestive system	Rest of
22	Trypanosomiasis	086			520-579
23	Syphilis	090-097	63	Nephritis, nephrotic syndrome, and nephrosis	580-589
24	All other infectious and parasitic diseases	Rest of 001 -139	64	Hyperplasia of prostate	600
25	Malignant neoplasm of stomach	151	65	Other diseases of genitourinary system	590-599,
26	Malignant neoplasm of colon	153			601-629
27	Malignant neoplasm of rectum, rectosigmoid junction, and anus	154	66	Abortion	630-639
28	Malignant neoplasm of trachea, bronchus, and lung	162	67	Direct obstetric causes	640-646,
29	Malignant neoplasm of female breast	174	68	Other obstetric causes	651-676
30	Malignant neoplasm of cervix uteri	180	69		647, 648,
31	Leukemia	204-208	70	Congenital anomalies	650
32	Malignant neoplasm of other and unspecified sites	Rest of 140- 208	71	Birth trauma	740-759
33	Benign neoplasms, carcinoma in situ, and other neoplasms	210-239	72	Other conditions originating in the perinatal period	760-766,
34	Diabetes mellitus	250	73	Symptoms, signs, and ill-defined conditions	768-779
35	Kwashiorkor	260	74	All other diseases	780-799
36	Nutritional marasmus	261	75	Motor vehicle traffic accidents	680-739
37	Other protein-calorie malnutrition	262, 263	76	Accidental falls	E810-E819
38	Avitaminosis	264-269		All other accidents	E880-E888
39	Other endocrine and metabolic diseases	Rest of 240 - 279	77	Suicide	Rest of
40	Anemias	280-285	78	Homicide	E800-E949
41	Other diseases of blood and blood-forming organs	286-289	79	Injury unknown whether accidentally or purposely inflicted	E950-E959
42	Mental disorders	290-319	80	Injury from operations of war, legal intervention	E960-E969
43	Meningitis	320-322			E980-E989
					E970-E978,
					E990-E999

**Table 5**  
**PAHO 6/61 List of Mortality Cause Groups for ICD-9**  
**(see Chapters II and III)**

**0.0 Symptoms, signs and ill-defined conditions (780-799)****1.00 Communicable diseases (001-139, 320-322, 460-466, 480-487)**

- 1.01 Intestinal infectious diseases (001-009)
- 1.02 Tuberculosis (010-018)
- 1.03 Certain diseases preventable by immunization (032, 033, 037, 045, 055)
- 1.04 Certain vector-borne diseases (020, 060, 062-064, 071, 080-088)
- 1.05 Septicemia (038)
- 1.06 Syphilis and other venereal diseases (090-099)
- 1.07 Meningitis (320-322)
- 1.08 Acute respiratory infections (460-466, 480-487)
- 1.09 Other infectious and parasitic diseases (remainder of 000-139)

**2.00 Neoplasms (140-239)**

- 2.01 Malignant neoplasm of stomach (151)
- 2.02 Malignant neoplasm of colon (153)
- 2.03 Malignant neoplasm of digestive organs and peritoneum, other than stomach and colon (150, 152, 154-159)
- 2.04 Malignant neoplasm of trachea, bronchus and lung (162)
- 2.05 Malignant neoplasm of respiratory and intrathoracic organs, except trachea, bronchus and lung (160, 161, 163-165)
- 2.06 Malignant neoplasm of female breast (174)
- 2.07 Malignant neoplasm of cervix uteri, and uterus, body and unspecified parts (179, 180, 182)
- 2.08 Malignant neoplasm of prostate (185)
- 2.09 Malignant neoplasm of bladder and other genitourinary organs (183, 184, 186-189)
- 2.10 Malignant neoplasm of lymphatic and hematopoietic tissue (200-208)
- 2.11 Other malignant neoplasms (remainder of 140-208)
- 2.12 Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)

**3.00 Diseases of circulatory system (390-459)**

- 3.01 Acute rheumatic fever and chronic rheumatic heart disease (390-398)
- 3.02 Hypertensive disease (401-405)
- 3.03 Ischemic heart disease (410-414)
- 3.04 Diseases of pulmonary circulation and other forms of heart disease (415-429)
- 3.05 Cerebrovascular disease (430-438)
- 3.06 Atherosclerosis (440)
- 3.07 Other diseases of circulatory system (441-459)

**4.00 Certain conditions originating in perinatal period (760-779)**

- 4.01 Maternal conditions affecting fetus or newborn (760)
- 4.02 Obstetric complications affecting fetus or newborn, and birth trauma (761-763, 767)
- 4.03 Slow fetal growth, fetal malnutrition and immaturity (764, 765)
- 4.04 Hypoxia, birth asphyxia and other respiratory conditions (768-770)
- 4.05 Hemolytic disease of fetus or newborn (773)
- 4.06 Other conditions originating in perinatal period (766, 771, 772, 774-779)

**Table 5 (cont.)**  
**PAHO 6/61 List of Mortality Cause Groups for ICD-9**  
**(see Chapters II and III)**

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**5.00 External causes of injury and poisoning (E800-E999)**

- 5.01 Motor vehicle traffic accidents (E810-E819)
- 5.02 Other transport accidents (E800-E807, E820-E838, E840-E848)
- 5.03 Accidental poisoning (E850-E869)
- 5.04 Misadventures during medical care, abnormal reactions and late complications, and drugs and medicaments causing adverse effects in therapeutic use (E870-E879, E930-E949)
- 5.05 Accidental falls (E880-E888)
- 5.06 Accidents caused by fire and flames (E890-E899)
- 5.07 Accidental drowning and submersion (E910)
- 5.08 Accidents caused by machinery, and by cutting and piercing instruments (E919, E920)
- 5.09 Accidents caused by firearm missile (E922)
- 5.10 Other accidents, including late effects (E900-E909, E911-E918, E921, E923-E929)
- 5.11 Suicide and self-inflicted injury (E950-E959)
- 5.12 Homicide and injury purposely inflicted by other persons (E960-E969), injury resulting from operations of war (E990-E999), and injury due to legal intervention (E970-E978)
- 5.13 Injury undetermined whether accidentally or purposely inflicted (E980-E989)

**6.00 All other diseases (remainder of 001-779)**

- 6.01 Diabetes mellitus (250)
  - 6.02 Nutritional deficiencies and anemias (260-269, 280-285)
  - 6.03 Mental disorders (290-319)
  - 6.04 Diseases of nervous system, other than meningitis (323-359)
  - 6.05 Bronchitis, chronic and unspecified; emphysema and asthma (490-493)
  - 6.06 Other chronic pulmonary disease (494-496), pulmonary diseases due to external agents (500-508), and other diseases of respiratory system (510-519)
  - 6.07 Appendicitis, hernia of abdominal cavity, and intestinal obstruction without mention of hernia (540-543, 550-553, 560)
  - 6.08 Chronic liver disease and cirrhosis (571)
  - 6.09 Diseases of other parts of digestive system (remainder of 530-579)
  - 6.10 Diseases of urinary system (580-599)
  - 6.11 Hyperplasia of prostate (600)
  - 6.12 Complications of pregnancy, childbirth and the puerperium (630-676)
  - 6.13 Congenital anomalies (740-759)
  - 6.14 Residual (remainder of 001-779)
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**Note:** This list includes all ICD-9 categories, whether or not eligible to be coded as underlying causes of death.

**Table 6**  
**PAHO 6/67 List of Mortality Cause Groups for ICD-10**  
**(see Chapters IV and V)**

- 0.00 Symptoms, signs and ill-defined conditions (R00-R99)**
- 1.00 Communicable diseases (A00-B99, G00-G03, J00-J22)**
- 1.01 Intestinal infectious diseases (A00-A09)
  - 1.02 Tuberculosis (A15-A19)
  - 1.03 Certain vector-borne diseases and rabies (A20, A44, A75-A79, A82-A84, A85.2, A90-A98, B50-57)
  - 1.04 Certain diseases preventable by immunization (A33-A37, A80, B05, B06, B16, B17.0, B18.0-B18.1, B26)
  - 1.05 Meningitis (A39, A87, G00-G03)
  - 1.06 Septicemia, except neonatal (A40-A41)
  - 1.07 HIV disease (AIDS) (B20-B24)
  - 1.08 Acute respiratory infections (J00-J22)
  - 1.09 Other infectious and parasitic diseases (remainder of A00-B99, i.e. A21-A32, A38, A42-A43, A46-A74, A81, A85.0-A85.1, A85.8, A86, A88-A89, A99-B04, B07-B15, B17.1-B17.8, B18.2-B19.9, B25, B27-B49, B58-B99)
- 2.00 Neoplasms (C00-D48)**
- 2.01 Malignant neoplasm of stomach (C16)
  - 2.02 Malignant neoplasm of colon and rectosigmoid junction (C18-C19)
  - 2.03 Malignant neoplasm of digestive organs and peritoneum, except stomach and colon (C15, C17, C20-C26, C48)
  - 2.04 Malignant neoplasm of trachea, bronchus and lung (C33-C34)
  - 2.05 Malignant neoplasm of respiratory and intrathoracic organs, except trachea, bronchus and lung (C30-C32, C37-C39)
  - 2.06 Malignant neoplasm of female breast (C50 in women)
  - 2.07 Malignant neoplasm of cervix uteri (C53)
  - 2.08 Malignant neoplasm of corpus uteri(C54)
  - 2.09 Malignant neoplasm of uterus, part unspecified (C55)
  - 2.10 Malignant neoplasm of prostate (C61)
  - 2.11 Malignant neoplasm of other genitourinary organs (C51-C52, C56-C57, C60, C62-C68)
  - 2.12 Leukemia (C91-C95)
  - 2.13 Malignant neoplasm of lymphoid, other hematopoietic and related tissue (C81-C90, C96)
  - 2.14 Malignant neoplasm of other and unspecified sites (remainder of C00-C97, i.e. C00-C14, C40-C47, C49, C50 in men, C58, C69-C80, C97)
  - 2.15 Carcinoma in situ, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)
- 3.00 Diseases of the circulatory system (I00-I99)**
- 3.01 Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)
  - 3.02 Hypertensive diseases (I10-I15)
  - 3.03 Ischemic heart diseases (I20-I25)
  - 3.04 Pulmonary heart disease, diseases of pulmonary circulation and other forms of heart disease (I26-I45, I47-I49, I51)
  - 3.05 Cardiac arrest (I46)
  - 3.06 Heart failure (I50)
  - 3.07 Cerebrovascular diseases (I60-I69)
  - 3.08 Atherosclerosis (I70)
  - 3.09 All other diseases of the circulatory system (I71-I99)
- 4.00 Certain conditions originating in the perinatal period (P00- P96)**
- 4.01 Fetus and newborn affected by certain maternal conditions (P00, P04)
  - 4.02 Fetus and newborn affected by obstetric complications, birth trauma (P01-P03, P10-P15)
  - 4.03 Slow fetal growth, fetal malnutrition, short gestation, low birth weight (P05, P07)
  - 4.04 Respiratory disorders specific to the perinatal period (P20-P28)
  - 4.05 Bacterial sepsis of newborn (P36)
  - 4.06 Remainder of certain conditions originating in the perinatal period (rest of P00-P96, i.e. P08, P29, P35, P37-P96)

**Table 6 (cont.)**  
**PAHO 6/67 List of Mortality Cause Groups for ICD-10**  
**(see Chapters IV and V)**

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**5.00 External causes (V01-Y89)**

- 5.01 Land transport accidents (V01-V89)
- 5.02 Other and unspecified transport accidents (V90-V99)
- 5.03 Falls (W00-W19)
- 5.04 Accidents caused by firearm discharge (W32-W34)
- 5.05 Accidental drowning and submersion (W65-W74)
- 5.06 Accidental threats to breathing (W75-W84)
- 5.07 Exposure to electric current (W85-W87)
- 5.08 Exposure to smoke, fire and flames (X00-X09)
- 5.09 Accidental poisoning by and exposure to noxious substances (X40-X49)
- 5.10 All other accidents (W20-W31, W35-W64, W88-W99, X10-X39, X50-X59, Y40-Y84)
- 5.11 Intentional self-harm (suicide) (X60-X84)
- 5.12 Assault (homicide) (X85-Y09)
- 5.13 Event of undetermined intent (Y10-Y34)
- 5.14 All other external causes (Y35-Y36, Y85-Y89)

**6.00 All other diseases (D50-D89, E00-E90, F00-F99, G04-G98, H00-H59, H60-H95, J30-J98, K00-K93, L00-L99, M00-M99, N00-N99, O00-O99, Q00-Q99)**

- 6.01 Diabetes mellitus (E10-E14)
  - 6.02 Nutritional deficiencies and nutritional anemia (E40-E64, D50-D53)
  - 6.03 Mental and behavioral disorders (F00-F99)
  - 6.04 Diseases of the nervous system, except meningitis (G04-G99)
  - 6.05 Chronic lower respiratory diseases (J40-J47)
  - 6.06 Remainder of diseases of the respiratory system (rest of J00-J99, i.e. J30-J39, J60-J98)
  - 6.07 Appendicitis, hernia of abdominal cavity and intestinal obstruction (K35-K46, K56)
  - 6.08 Cirrhosis and certain other chronic diseases of liver (K70, K73, K74, K76)
  - 6.09 All other diseases of the digestive system (rest of K00-K93, i.e. K00-K31, K50-K55, K57-K66, K71, K72, K75, K80-K93)
  - 6.10 Diseases of the urinary system (N00-N39)
  - 6.11 Hyperplasia of prostate (N40)
  - 6.12 Pregnancy, childbirth and the puerperium (O00-O99)
  - 6.13 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
  - 6.14 Remainder of all other diseases (rest of A00-Q99, i.e. D55-D89, E00-E07, E15-E34, E65-E90, H00-H59, H60-H95, L00-L99, M00-M99, N41-N99)
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**Table 8**  
**PAHO/WHO Ranking List to Determine Leading Causes of Death in ICD-9**

**All deaths (001-799, E800-E999)**

LC-01	Intestinal infectious diseases (001-009)
LC-02	Tuberculosis (010-018)
LC-03	* Vector-borne diseases and rabies (020, 088.0, 080-083, 071,060-066,084-086)
LC-04x	* Vaccine-preventable diseases (037,032,033,045,052,055,056,070.0,070.1,070.2,070.3,070.6,070.9,072,771.3)
LC-05	Meningitis (036,047,049,320,322)
LC-06	Septicaemia (038)
LC-07x	Human immunodeficiency virus [HIV] disease [279.1 (279.5, 279.6 or 042-044)]
LC-08	Malignant neoplasm of oesophagus (150)
LC-09	Malignant neoplasm of stomach (151)
LC-10	Malignant neoplasm of colon, sigmoid, rectum and anus (153-154)
LC-11	Malignant neoplasm of liver and intrahepatic bile ducts (155)
LC-12	Malignant neoplasm of gallbladder and other parts of biliary tract (156)
LC-13	Malignant neoplasm of pancreas (157)
LC-14	Malignant neoplasm of larynx (161)
LC-15	Malignant neoplasm of trachea, bronchus and lung (162)
LC-16	Melanoma and other malignant neoplasms of skin (172-173)
LC-17	Malignant neoplasms of female breast (174)
LC-18	* Malignant neoplasm of uterus (179-180, 182)
LC-19	Malignant neoplasm of ovary (183)
LC-20	Malignant neoplasm of prostate (185)
LC-21	Malignant neoplasm of kidney, except renal pelvis (189.0)
LC-22	Malignant neoplasm of bladder (188)
LC-23	Malignant neoplasm of brain (191)
LC-24	Malignant neoplasms of lymphoid, haematopoietic and related tissue (200-208)
LC-25	Benign neoplasms, in situ and uncertain behaviour (210-239)
LC-26	Diabetes (250)
LC-27	Malnutrition and nutritional anaemias (260-269,280-281)
LC-28	Disorders of fluid, electrolyte and acid-based balance [dehydration] (276)
LC-29	* Dementia and Alzheimer's disease (290, 331.0)
LC-30	Mental and behavioural disorders due to psychoactive substance use (291-294,303-305)
LC-31	Parkinson's disease (332.0)
LC-32	Epilepsy and status epilepticus (345)
LC-33	Chronic rheumatic heart diseases (393-398)
LC-34	Hypertensive diseases (401-405)
LC-35	* Ischaemic heart diseases (410-414)
LC-36	Pulmonary heart disease and diseases of pulmonary circulation (415-417)
LC-37	Nonrheumatic valve disorders (424)
LC-38	Cardiomyopathy (425)
LC-39	Cardiac arrest (427.5)
LC-40	Cardiac arrhythmias (427.0-427.4, 427.6-427.9)
LC-41	Heart failure and complications and ill-defined heart disease (428-429)
LC-42	Cerebrovascular diseases (430-438)
LC-43	Atherosclerosis (440)
LC-44	Aortic aneurysm and dissection (441)
LC-45	Acute respiratory diseases other than influenza and pneumonia (460-466)
LC-46	Influenza and Pneumonia (480-487)
LC-47	Chronic lower respiratory diseases (490-496)
LC-48	Pulmonary oedema and other interstitial pulmonary diseases (518)
LC-49x	Respiratory failure (799.1)
LC-50	Appendicitis, hernia and intestinal obstruction (540-553, 560)
LC-51	* Cirrhosis and other diseases of liver (570-573)
LC-52x	* Diseases of the musculoskeletal system and connective tissue (274, 446, 710-739)
LC-53	Diseases of the urinary system (580-599)
LC-54x	* Pregnancy, childbirth and the puerperium (630-676)
LC-55x	* Certain conditions originating in the perinatal period (760-779)
LC-56x	* Congenital malformations, deformations and chromosomal abnormalities (740-759)

\* Causal categories that can be expanded when appearing among the leading causes:  
 x - Not an exact equivalence between ICD-9 and ICD-10.

**Table 8 (Cont.)**  
**PAHO/WHO Ranking List to Determine Leading Causes of Death in ICD-9**

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LC-57	Land transport accidents (E800-E829)
LC-58	Accidental falls (E880-E886, E888)
LC-59	Non intentional firearm discharge (E922)
LC-60	Accidental drowning and submersion (E910)
LC-61	Accidental threats to breathing (E911-E913)
LC-62	Accidental poisoning (E850-E869)
LC-63	Intentional self-harm [suicide] (E950-E959)
LC-64	Assault [homicide] (E960-E969)
LC-65	Event of undetermined intent (E980-E989)
LC-88	Remainder (all the rest)
LC-99	Symptoms, signs and ill-defined conditions (780-799)

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**\* Causal categories that can be expanded when appearing among the leading causes:**

LC-03	Vector borne diseases and rabies (a)
LC-04x	Vaccine-preventable diseases (a)
LC-18	Malignant neoplasm of uterus (179-180, 182) <ul style="list-style-type: none"> <li>Cervix (180)</li> <li>Corpus (182)</li> <li>Unspecified part (179)</li> </ul>
LC-29	Dementia and Alzheimer's disease (290, 331.0) <ul style="list-style-type: none"> <li>Dementia (290)</li> <li>Alzheimer's disease (331.0)</li> </ul>
LC-35	Ischaemic heart disease (410-414) <ul style="list-style-type: none"> <li>Acute (410-413)</li> <li>Chronic (414)</li> </ul>
LC51	Cirrhosis and other diseases of liver (570-573) <ul style="list-style-type: none"> <li>Alcoholic liver disease (571.0-571.3)</li> <li>Hepatic failure (570)</li> <li>Fibrosis and cirrhosis of liver (571.5-571.9)</li> </ul>
LC-52x	Diseases of musculoskeletal system and connective tissue (274, 446, 710-739) <ul style="list-style-type: none"> <li>x- Inflammatory polyarthropathies (274, 712, 714, 716)</li> <li>x- Arthrosis (715)</li> <li>Polyarteritis nodosa and other necrotizing vasculopathies (446)</li> <li>Systemic lupus erythematosus (710.0)</li> <li>Systemic Sclerosis (710.1)</li> <li>x- Disorders of bone density and structure (733)</li> <li>Osteomyelitis (730.0-730.2)</li> </ul>
LC-54x	Pregnancy, childbirth and puerperium 630-676 <ul style="list-style-type: none"> <li>Pregnancy with abortive outcome (630-638)</li> <li>Eclampsia and other hypertensive disorders (642)</li> <li>x- Complications of labour and delivery (660-669)</li> <li>Complications predominantly related to the puerperium (670-676)</li> </ul>
LC-55x	Certain conditions originating in the perinatal period (760-779) <ul style="list-style-type: none"> <li>Birth trauma and other obstetric causes (761-763,767)</li> <li>Immaturity and related disorders (764-765)</li> <li>Respiratory disorders specific to the perinatal period (768-770)</li> <li>x- Bacterial sepsis of newborn (771.8)</li> <li>Haemorrhagic and haematological disorders (772-774,776)</li> </ul>
LC-56x	Congenital malformations, deformations and chromosomal abnormalities (740-759) <ul style="list-style-type: none"> <li>Anencephaly and other malformations of the nervous system (740-742)</li> <li>Congenital malformations of heart (745-746)</li> <li>Congenital malformations of respiratory system (748)</li> <li>Congenital malformations and deformations of musculoskeletal system (754-756)</li> <li>Chromosomal abnormalities (758)</li> </ul>

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(a) Categories LC-03 and LC-04 can be expanded to show specific diseases within the category.  
 x - Not an exact equivalence between ICD-9 and ICD-10.

**Table 9**  
**Ranking List to Determine Leading Causes of Death in ICD-10**

**All deaths (A00-R99, V01-Y89)**

LC-01	Intestinal infectious diseases (A00-A09)
LC-02	Tuberculosis (A15-A19)
LC-03	* Vector-borne diseases and rabies (A20, A44, A75-A79, A82-A84, A852, A90-A96, A98.0-A98.2, A98.8, B50-B57)
LC-04	* Vaccine-preventable diseases (A33-A37, A80, B01, B05, B06, B15, B16, B17.0, B18.0, B18.1, B18.9, B19, B26)
LC-05	Meningitis (A39, A87, G00-G03)
LC-06	Septicaemia (A40-A41)
LC-07	Human immunodeficiency virus [HIV] disease (B20-B24)
LC-08	Malignant neoplasm of oesophagus (C15)
LC-09	Malignant neoplasm of stomach (C16)
LC-10	Malignant neoplasm of colon, sigmoid, rectum and anus (C18-C21)
LC-11	Malignant neoplasm of liver and intrahepatic bile ducts (C22)
LC-12	Malignant neoplasm of gallbladder and other parts of biliary tract (C23, C24)
LC-13	Malignant neoplasm of pancreas (C25)
LC-14	Malignant neoplasm of larynx (C32)
LC-15	Malignant neoplasm of trachea, bronchus and lung (C33, C34)
LC-16	Melanoma and other malignant neoplasms of skin (C43, C44)
LC-17	Malignant neoplasms of female breast (C50)
LC-18	* Malignant neoplasm of uterus (C53-C55)
LC-19	Malignant neoplasm of ovary (C56)
LC-20	Malignant neoplasm of prostate (C61)
LC-21	Malignant neoplasm of kidney, except renal pelvis (C64)
LC-22	Malignant neoplasm of bladder (C67)
LC-23	Malignant neoplasm of brain (C71)
LC-24	Malignant neoplasms of lymphoid, haematopoietic and related tissue (C81-C96)
LC-25	Benign neoplasms, in situ and uncertain behaviour (D00-D48)
LC-26	Diabetes (E10-E14)
LC-27	Malnutrition and nutritional anaemias (D50-D53, E40-E64)
LC-28	Disorders of fluid, electrolyte and acid-based balance (dehydration) (E86-E87)
LC-29	* Dementia and Alzheimer's disease (F01, F03, G30)
LC-30	Mental and behavioural disorders due to psychoactive substance use (F10-F19)
LC-31	Parkinson's disease (G20)
LC-32	Epilepsy and status epilepticus (G40, G41)
LC-33	Chronic rheumatic heart diseases (I05-I09)
LC-34	Hypertensive diseases (I10-I15)
LC-35	* Ischaemic heart diseases (I20-I25)
LC-36	Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)
LC-37	Nonrheumatic valve disorders (I34-I38)
LC-38	Cardiomyopathy (I42)
LC-39	Cardiac arrest (I46)
LC-40	Cardiac arrhythmias (I47-I49)
LC-41	Heart failure and complications and ill-defined heart disease (I50-I51)
LC-42	Cerebrovascular diseases (I60-I69)
LC-43	Atherosclerosis (I70)
LC-44	Aortic aneurysm and dissection (I71)
LC-45	Acute respiratory diseases other than influenza and pneumonia (J00-J06, J20-J22)
LC-46	Influenza and Pneumonia (J10-J18)
LC-47	Chronic lower respiratory diseases (J40-J47)
LC-48	Pulmonary oedema and other interstitial pulmonary diseases (J80-J84)
LC-49	Respiratory failure (J96)
LC-50	Appendicitis, hernia and intestinal obstruction (K35-K46, K56)
LC-51	* Cirrhosis and other diseases of liver (K70-K76)
LC-52	* Diseases of the musculoskeletal system and connective tissue (M00-M99)
LC-53	Diseases of the urinary system (N00-N39)
LC-54	* Pregnancy, childbirth and the puerperium (O00-O99)
LC-55	* Certain conditions originating in the perinatal period (P00-P96)
LC-56	* Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
LC-57	Land transport accidents (V01-V89)

\* Causal categories that can be expanded when appearing among the leading causes:

**Table 9 (Cont.)**  
**Ranking List to Determine Leading Causes of Death in ICD-10**

LC-58	Accidental falls (W00-W19)
LC-59	Non intentional firearm discharge (W32-W34)
LC-60	Accidental drowning and submersion (W65-W74)
LC-61	Accidental threats to breathing (W75-W84)
LC-62	Accidental poisoning (X40-X49)
LC-63	Intentional self-harm [suicide] (X60-X84)
LC-64	Assault [homicide] (X85-Y09)
LC-65	Event of undetermined intent (Y10-Y34)
LC-88	<b>Remainder (all the rest)</b>
LC-99	<b>Symptoms, signs and ill-defined conditions (R00-R99)</b>

\* Causal categories that can be expanded when appearing among the leading causes:

LC-03	Vector borne diseases and rabies (a)
LC-04	Vaccine-preventable diseases (a)
LC-18	Malignant neoplasm of uterus (C53-C55) <ul style="list-style-type: none"> <li>Cervix (C53)</li> <li>Corpus (C54)</li> <li>Unspecified part (C55)</li> </ul>
LC-29	Dementia and Alzheimer's disease (F01, F03, G30) <ul style="list-style-type: none"> <li>Dementia (F01, F03)</li> <li>Alzheimer's disease (G30)</li> </ul>
LC-35	Ischaemic heart disease (I20-I25) <ul style="list-style-type: none"> <li>Acute (I20-I24)</li> <li>Chronic (I25)</li> </ul>
LC51	Cirrhosis and other diseases of liver (K70-K76) <ul style="list-style-type: none"> <li>Alcoholic liver disease (K70)</li> <li>Hepatic failure (K72)</li> <li>Fibrosis and cirrhosis of liver (K74)</li> </ul>
LC-52	Diseases of musculoskeletal system and connective tissue (M00-M99) <ul style="list-style-type: none"> <li>Inflammatory polyarthropathies (M05-M14)</li> <li>Arthrosis (M15-M19)</li> <li>Polyarteritis nodosa and other necrotizing vasculopathies (M30-M31)</li> <li>Systemic lupus erythematosus (M32)</li> <li>Systemic Sclerosis (M34)</li> <li>Disorders of bone density and structure (M80-M85)</li> <li>Osteomyelitis (M86)</li> </ul>
LC-54	Pregnancy, childbirth and puerperium (O00-O99) <ul style="list-style-type: none"> <li>Pregnancy with abortive outcome (O00-O07)</li> <li>Eclampsia and other hypertensive disorders (O10-O11, O13-O16)</li> <li>Complications of labour and delivery (O60-O75)</li> <li>Complications predominantly related to the puerperium (O85-O92)</li> </ul>
LC-55	Certain conditions originating in the perinatal period (P00-P96) <ul style="list-style-type: none"> <li>Birth trauma and other obstetric causes (P01-P03, P10-P15)</li> <li>Immaturity and related disorders (P05-P07)</li> <li>Respiratory disorders specific to the perinatal period (P20-P28)</li> <li>Bacterial sepsis of newborn (P36)</li> <li>Haemorrhagic and haematological disorders (P50-P61)</li> </ul>
LC-56	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) <ul style="list-style-type: none"> <li>Anencephaly and other malformations of the nervous system (Q00-Q07)</li> <li>Congenital malformations of heart (Q20-Q24)</li> <li>Congenital malformations of respiratory system (Q30-Q34)</li> <li>Congenital malformations and deformations of musculoskeletal system (Q65-Q79)</li> <li>Chromosomal abnormalities (Q90-Q99)</li> </ul>

(a) Categories LC-03 and LC-04 can be expanded to show specific diseases within the category