

Pan American Health Organization / World Health Organization (PAHO/WHO)

CAUSES OF DEATH CONSIDERED AMENABLE TO HEALTH CARE¹

Selected conditions, group and cause

Diseases categories	Name of group	Age	ICD10
Infections	Intestinal infections	0-14	A00-A09
	Tuberculosis	0-74	A15-A19, B90
	Selected infections and parasitic diseases	0-74	A21-A26, A28 A30-A33, A34, A40, A41, A48 A36, A35, A80 A38, A40-A41, A46, A49.1, A55, A57, A58, A64, A68, B50- B54, B65-B69, B71, B73-B83, L03 G00, G03, G04, G06
	Whooping cough	0-14	A37
	Measles, Rubella (German measles), Unspecified viral infection characterized by skin and mucous membrane lesions	1-14	B05, B06, B09
	Hepatitis HIV/AIDS	0-74	B15 – B19, B20 – B24
Neoplasms	Malignant neoplasm of lip	0-74	C00
	Malignant neoplasm of stomach, colon, recto sigmoid junction, rectum, anus and anal canal, liver and intrahepatic bile ducts	0-74	C16, C18-C21, C22
	Malignant melanoma of skin, Other malignant neoplasm of skin	0-74	C43, C44
	Malignant neoplasm of breast (female only)	0-74	C50
	Malignant neoplasm of cervix uteri	0-74	C53
	Malignant neoplasm of cervix of the uteri and body of the uterus	0-74	C54, C55
	Malignant neoplasm of testis	0-74	C62
	Malignant neoplasm of bladder	0-74	C67

¹ **Mortality amenable to health care** has been defined as “those premature deaths that should have not occurred in the presence of timely and effective health care”. The list is based on the proposals from England (Nolte & McKee 2004, 2008, 2011), England & Wales (2010, 2011 – Office for the National Health Statistics - ONHS), Mexico (Secretaría de Salud - SSA - 2006), Canada (Health Canada, 2012), New Zealand (Tobias M & Jackson G, 2001; Tobias M & Yeh L, 2009). See references below.

Diseases categories	Name of group	Age	ICD10
	Malignant neoplasm of Thyroid gland	0-74	C73
	Hodgkin's disease	0-74	C81
	Leukaemia	0-44	C91-C95
	In situ Neoplasms	0-74	D00 – D09
	Benign neoplasms	0-74	D10 – D36
Nutritional, endocrine and metabolic diseases	Diseases of the thyroid	0-74	E00 - E07
	Diabetes mellitus Adrenal disorders Congenital metabolic disorders	0-49	E10 - E14 E24, E25, E27 E74.0, E74.2
	Epilepsy	0-74	G40-G41
Cardiovascular diseases	Rheumatic and other valvular heart diseases	0-74	I00 – I02, I05-I09
	Hypertensive disease	0-74	I10-I13, I15
	Ischaemic heart disease	0-74	I20-I25
	Cerebrovascular disease Atherosclerosis, Peripheral vascular disease	0-74	I60-I69, I70, I73.9 (– 50%)
Diseases of the respiratory system	Respiratory diseases (excl. pneumonia/influenza)	1-14	J00-J09, J20-J99
	Influenza	0-74	J10-J11
	Pneumonia	0-74	J12-J18, J45, J46
Diseases of the digestive system	Peptic ulcer disease	0-74	K25-K27, K28, K29
	Appendicitis	0-74	K35-K38
	Abdominal hernia	0-74	K40-K46
	Paralytic ileus and intestinal obstruction without hernia	0-74	K56
	Disorders of the gallbladder, biliary tract and pancreas	0-74	K80-K86
	Postprocedural disorders of digestive system	0-74	K91
Diseases of the Genitourinary system	Nephritis and nefrosis Obstructive uropathy, urolithiasis Renal failure Other disorders of kidney and urether Non-specific urethritis Urethral stricture	0-74	N00-N08, N13, N20, N21, N23 N17-N19 N25-N27 N34.1 N35
	Benign prostatic hyperplasia	0-74	N40
	Inflammatory diseases of the female genitourinary (GU) system	0-74	N70 – N73, N75, N76
	Noninflammatory diseases of the female genital tract	0-74	N87, N88, N90
	Other disorders of the GU system	0-74	N99.1
Maternal and perinatal mortality	Pregnancy, childbirth and puerperium	All	O00-O99
	Congenital malformations, deformations and chromosomal abnormalities	0-74	Q00-Q99
	Complications of the perinatal period	All	P00-P96
External causes	Misadventures to patients during treatment and abnormal reactions of the patients	All	Y60-Y69, Y83-Y84

REFERENCES

Nolte E, McKee M. Does health care saves lives? Avoidable mortality revisited. The Nuffield Trust, 2004.

Nolte E, McKee M. Measuring the health of nations: updating an earlier analysis. Health Affairs. 2008; 27(1):58-71.

Nolte E, McKee M. Variations in amenable mortality – Trends in 16 high-income nations. Health Policy 103 (2011) 47 – 52.

Office for National Health Statistics (England & Wales). Avoidable Mortality in England and Wales, 2010. Statistical Bulletins 2010 and 2011.

Secretaría de Salud. La Mortalidad en México 2000 – 2004 - Muertes evitables: magnitud, distribución y tendencias. México, 2006.

Tobias M, Jackson G. Avoidable mortality in New Zealand, 1981-1997. Aust N Z Public Health. 2001; 25 (1) 12-20.

Tobias M, Yeh L. How much does health care contribute to health gain and to health inequality? Trends in amenable mortality in New Zealand 1981–2004. Aust N Z Public Health. 2009; 33:70-8.

Health Canada (Statistics Canada): Health Indicators 2012: Definitions, Data Sources and Rationale, May 2012.

Rutstein DD et al. Measuring the Quality of Medical Care: A Clinical Method. N Engl J Med 1976; 294: 582-588.