

Leading Cause Groups for Mortality Tabulation

Leading Cause (ICD10 Code)	Becker/WHO ICD-10	APHEO modifications*	CCO Changes to Cancer Groupings**	Final LC Groupings
LC-01 Intestinal infectious diseases	A00-A09			A00-A09
LC-02 Tuberculosis	A15-A19			A15-A19
LC-03 Vector-borne diseases and rabies	A20,A44,A75-79,A82-84,A852,A90-96,A98.0-98.2,A98.8,B50-B57			A20,A44,A75-79,A82-84,A852,A90-96,A98.0-98.2,A98.8,B50-B57
LC-04 Vaccine Preventable	A33-A37,A80,B01,B05,B06,B15,B16,B17.0,B18.0,B18.1,B18.1.,B18.9,B19,B26			A33-A37,A80,B01,B05,B06,B15,B16,B17.0,B18.0,B18.1,B18.1.,B18.9,B19,B26
LC-05 Meningitis	A39,A87,G00-G03			A39,A87,G00-G03
LC-06 Septicemia	A40-A41			A40-A41
LC-07 HIV/AIDS	B20-B24			B20-B24
LC-08 Malignant neoplasm of oesophagus	C15			C15
LC-09 Malignant neoplasm of stomach	C16			C16
LC-10 Malignant neoplasm of colon, rectum & anus	C18-C21	Include C26.0 - 550 deaths in 2003 - is included in this grouping by Canadian Cancer Society - this was done	Expand name	C18-C21, C26.0
LC-11 Malignant neoplasm of liver & intrahepatic bile ducts	C22		Expand name	C22
LC-12 Malignant neoplasm of gallbladder & other biliary tract	C23,C24	Exclude C24 - note: no deaths for C24 in 2003 - it wasn't excluded from case statement.	C23, C24 - expand name	C23,C24
LC-13 Malignant neoplasm of pancreas	C25			C25
LC-14 Malignant neoplasm of larynx	C32			C32
LC-15 Malignant neoplasm of lung & bronchus	C33,C34 - called Malignant neoplasm of lung & related		Exclude C33 (trachea) - should be only C33 (lung & bronchus)	C34
LC-16 Malignant neoplasm of skin	C43,C44	Exclude C44 - wasn't excluded as 94 deaths from C44 in 2003		C43,C44
LC-17 Malignant neoplasm of female breast	C50	Removed ' female ' from LC name since C50 does not specify male or female		C50
LC-18a Malignant neoplasm of cervix uteri	C53-C55 - one LC group called Malignant neoplasm of uterus	Suggested to exclude C54,C55	C53	C53
LC-18b Malignant neoplasm of corpus & uterus, NOS			C54, C55	C54, C55
LC-19 Malignant neoplasm of ovary	C56			C56
LC-20 Malignant neoplasm of prostate	C61			C61
LC-21 Malignant neoplasm of kidney	C64 - name was kidney & related, but C64 is only the kidney parenchyma		C64, C65	C64, C65
LC-22 Malignant neoplasm of bladder	C67			C67

LC-23 Malignant neoplasm of brain & nervous system	C71	Added C70 and C72 and change name (added & nervous system) - changes made to be consistent with groupings of the Can. Cancer Society and Cancer Care Ontario		C70-72
LC-24 Malignant neoplasm of lymph, blood & related	C81-C96			C81-C96
LC-25 Benign neoplasms, in situ & uncertain	D00-D48			D00-D48
LC-26 Diabetes	E10-E14	Suggested breaking down subcategories by Type - note: in 2003, 1008 were unspec type, therefore decision not to use subcategories.		E10-E14
LC-27 Malnutrition & nutritional anemias	D50-D53, E40-E64	Suggested subcategories by anemia/other - in 2003, 117 were anemias - decision not to use subcategories		D50-D53, E40-E64
LC-28 Disorders of fluid, electrolyte, etc	E86-E87			E86-E87
LC-29 Dementia & Alzheimer Disease	F01, F03, G30	added F00 - used by CIHI and others - however no deaths for this cause in 2003; suggested adding G31 - not added there were 78 deaths for this cause in 2003, but no other source uses this code (review by M. Sandhu); suggested adding F051 - no deaths with this cause in 2003 - this was not added but should be added in future;		F00, F01, F03, G30
LC-30 Mental & behav. Disorders due to psychoactive substance use	F10-F19	Suggested subcategories for F10, F11-19 - note: in 2003, most were F10 (242) - decision not to use subcategories		F10-F19
LC-31 Parkinson's	G20	Add G21 - this was done - only 4 deaths in 2003 were G21		G20, G21
LC-32 Epilepsy & related	G40,G41			G40,G41
LC-33 Chronic rheumatic heart disease	I05-I09			I05-I09
LC-34 Hypertensive disease	I10-I15			I10-I15
LC-35 Ischaemic heart disease	I20-I25			I20-I25
LC-36 Pulmonary heart disease & related	I26-I28			I26-I28
LC-37 Nonrheumatic valve disorders	I34-I38			I34-I38
LC-38 Cardiomyopathy	I42			I42
LC-39 Cardiac arrest	I46			I46
LC-40 Cardiac arrhythmias	I47-I49			I47-I49
LC-41 Heart failure & complications; ill-defined h.d.	I50-I51			I50-I51
LC-42 Cerebrovascular diseases	I60-I69			I60-I69
LC-43 Atherosclerosis	I70			I70
LC-44 Aortic aneurysm & dissection	I71			I71
LC-45 Acute respiratory other than flu or pneumonia	J00-J06, J20-J22			J00-J06, J20-J22
LC-46 Influenza and pneumonia	J10-J18			J10-J18
LC-47 Chronic lower respiratory diseases	J40-J47	Suggested J44 - COPD alone - 3096/3547 deaths were J44 - however, others use J40-J47, therefore did not change.		J40-J47
LC-48 Pulmonary oedema & related	J80-J84			J80-J84
LC-49 Respiratory failure	J96			J96

LC-50 Appendicitis, hernia, intestinal obstruct	K35-K46,K56			K35-K46,K56
LC-51 Cirrhosis and other diseases of liver	K70-K76			K70-K76
LC-52 Diseases of musculoskeletal & connective	M00-M99			M00-M99
LC-53 Diseases of urinary system	N00-N39			N00-N39
LC-54 Pregnancy, childbirth & puerperium	O00-O99			O00-O99
LC-55 Certain conditions originating perinatally	P00-P96			P00-P96
LC-56 Congenital malformations, deformations, & chromosomal	Q00-Q99			Q00-Q99
LC-57 Land Transport	V01-V89	Suggested subcategories - more than 3/4 were motor vehicle occupant/driver - decision not to use subcategories		V01-V89
LC-58 Falls	W00-W19			W00-W19
LC-59 Nonintentional firearm discharge	W32-W34			W32-W34
LC-60 Accidental drowning & submersion	W65-W74	Add V90,V92 - added - since they are drowning causes - only 3 deaths from these causes in 2003		W65-W74, V90, V92
LC-61 Accidents caused by suffocation and foreign body	W75-W84	Add W44, W45 - W44 added - only 1 death in 2003; W45 - couldn't be added as no deaths but added to case statement; change name to " Accidents caused by suffocation and foreign body " to be consistent with CIHI - done.		W44, W45, W75-W84
LC-62 Accidental poisoning	X40-X49			X40-X49
LC-63 Intentional self-harm	X60-X84	Added Y87.0 - sequelae of intentional self-harm		X60-X84, Y87.0
LC-64 Assault	X85-Y09	Added Y87.1 - sequelae of assault		X85-Y09, Y87.1
LC-65 Injury event of undetermined intent	Y10-Y34	Added ' injury ' to LC name		Y10-Y34
LC-66 Malignant neoplasms of oral cavity & pharynx	Not included as separate group by Becker et al.	C00-C14 - this is a new lead cause group suggested by APHEO - 369 deaths from this cause in 2003 (removed from residual grouping) - also a priority area for public health because of relationship to tobacco use	C00-C14 - add '& pharynx' to LC Group name as more accurate	C00-C14
LC-99 Symptoms, signs & ill-defined	R00-R99	Include in overall total - this was done		R00-R99
LC-88 Residual A00-Y99, excluding R00-R99	A00-Y99 codes not included in LC, also excluding R00-R99	Include in overall total - this was done		A00-Y99 codes not included in other LC group, also excluding R00-R99
Total All Causes				

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Leading cause grouping reference: Roberto Becker, John Silvi, Doris Ma Fat, Andre L'Hours, Ruy Laurenti. A method for deriving leading causes of death, *Bulletin of the World Health Organization*, April 2006, 84 (4), pp 297-304 and Annex 1.

*Modifications discussed and approved by the Leading Cause Group subcommittee of the Core Indicators Working Group, APHEO. Minutes of the working group are posted to the APHEO website.

**Modifications from Beth Theis on behalf of Cancer Care Ontario - also consistent with SEERStat and PHAC.