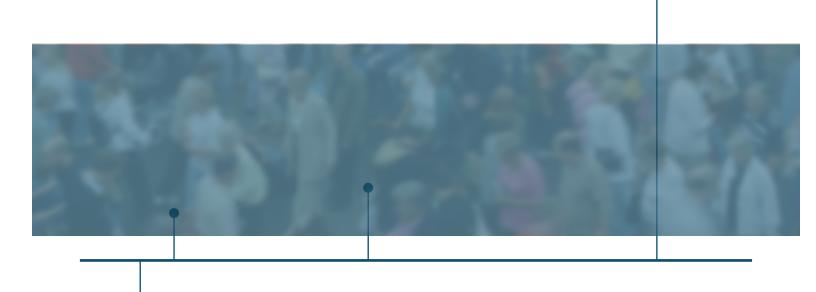
Death-related Statistics



DEATHS BY DECEDENT'S PLACE OF BIRTH BRITISH COLUMBIA, 2010

Area	Province/Country	Deaths
Canada	Total	20,885
	British Columbia	8,413
	Saskatchewan	3,860
	Alberta	2,904
	Ontario	2,244
	Manitoba	1,966
	Quebec	705
	Nova Scotia	348
	New Brunswick	220
	Newfoundland & Labrador	124
	Yukon	45
	Prince Edward Island	41
	Northwest Territories & Nunavut	12
	Nunavut	2
		2
North and Central America	Unknown Province	
North and Central America	Total	807 707
	United States Other North and	707 100
		100
Couth America	Central American countries	0.5
South America	Total	85
Europe	Total	6,245
	United kingdom	2,663
	Germany	697
	Netherlands	436
	Scandinavian countries	351
	Italy	327
	Poland	316
	Hungary	164
	Russia	141
	Republic of Ireland	140
	Austria	114
	Other European countries	896
Asia and the Middle East	Total	2,556
	China	1,016
	India	647
	Philippines	205
	Hong Kong	168
	Vietnam	93
	South Korea	73
	Iran	62
		62 48
	Iran	62 48 40
	Iran Pakistan Japan Other Asian and	62 48
	Iran Pakistan Japan Other Asian and the Middle Eastern countries	62 48 40 204
Africa	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total	62 48 40 204 199
Africa	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa	62 48 40 204 199 72
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries	62 48 40 204 199 72 127
Africa Oceania	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries Total	62 48 40 204 199 72 127 197
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries	62 48 40 204 199 72 127
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries Total	62 48 40 204 199 72 127 197
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries Total Fiji	62 48 40 204 199 72 127 197 121
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries Total Fiji Australia	62 48 40 204 199 72 127 197 121 48 26 2
	Iran Pakistan Japan Other Asian and the Middle Eastern countries Total South Africa Other African countries Total Fiji Australia New Zealand	62 48 40 204 199 72 127 197 121 48 26

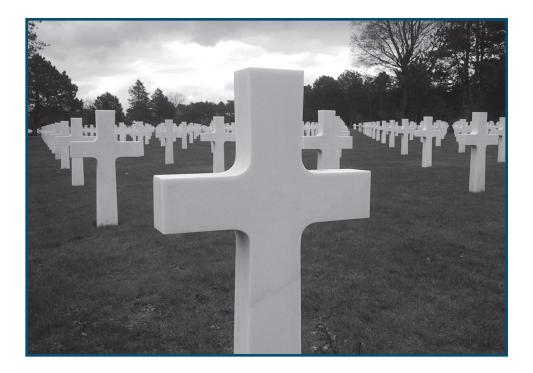
Note: Non-residents are excluded.

Death Introduction

In recognition of the importance of mortality statistics for health surveillance, planning, and research, a comprehensive array of tables is presented in this part of the report. Causes of death and/or age at death form the base of most tables because they are crucial components of health status for regional, national, and international comparisons. While other causes may have contributed to the death, the Underlying Cause of Death (UCOD) (see Glossary) is defined as the condition or injury that initiated the chain of events leading directly to the death, and was used for these tabulations. All causes are identified according to the World Health Organization's International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10) which is a statistical coding system and the accepted international standard for mortality coding. The groups of codes used to define particular topics are noted in the tables.

Deaths – General Indicators

An overall view of the number of deaths by ICD-10 chapters by gender and age is shown in Table 21. It provides a summary of the contribution of the 19 diagnostic categories to total deaths in BC in 2010. More detailed information for the same age groups appears in Appendix 2, which provides counts at the "3 character level". Although the causes shown in Appendix 2 ("Detailed Cause of Death by Gender and Age") are fairly specific, most ICD-10 codes consist of four or five characters, and are therefore even more detailed than the "roll ups" shown in Appendix 2. Neoplasms and Diseases of the Circulatory System accounted for most of the deaths in 2010 for both genders. Deaths in those two categories are further analysed in the sections following.



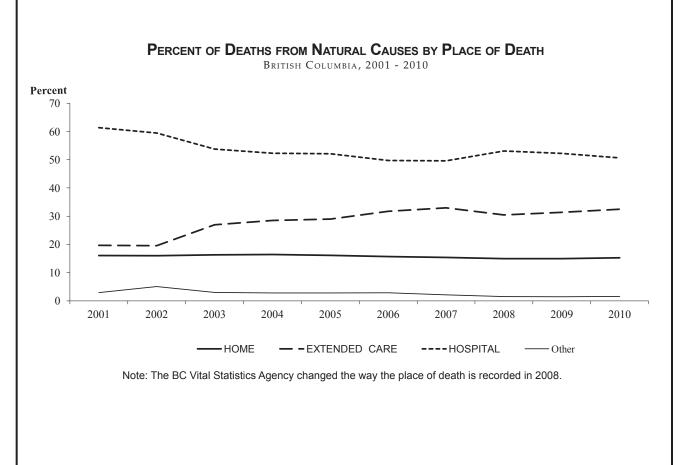
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Vital Statistics Information Box

PLACE OF DEATH FOR DEATHS FROM NATURAL CAUSES BRITISH COLUMBIA, 2001 - 2010

Deaths from natural causes in 2001 to 2010 were examined to determine the place of death. The majority of these deaths to British Columbia residents occurred in hospital (53.3 percent over the ten year period). 15.7 percent of deaths from natural causes occurred at home and 28.4 percent occurred in extended care facilities.

Place of Death	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2001-2010
Home	4,227	4,267	4,437	4,571	4,533	4,497	4,476	4,489	4,375	4,494	44,366
Extended Care	5,189	5,213	7,343	7,916	8,139	9,091	9,601	9,140	9,189	9,575	80,396
Hospital	16,180	15,876	14,641	14,525	14,642	14,265	14,453	15,931	15,293	14,930	150,736
Other and Unknown	775	1,353	813	775	788	824	618	456	433	471	7,306
Total	26,371	26,709	27,234	27,787	28,102	28,677	29,148	30,016	29,290	29,470	282,804



Vital Statistics Information Box

CANCER DEATHS IN BRITISH COLUMBIA, 2001 TO 2010

More British Columbians succumbed to Cancer or Malignant Neoplasms (ICD Codes C00-C97) than any other cause in 2010. The following charts illustrate the trends and changes in deaths caused by Cancer from 2001 to 2010. As illustrated, the proportion of deaths caused by specific types of Cancer has not changed substantially from 2001 to 2010. However, those dying of Cancer in 2010 are older than they were in 2001, and larger shares of them are female. Both the Age Standardized Mortality Rate (ASMR) rate and Potential Years of Life Lost (PYLLSR) have fallen.

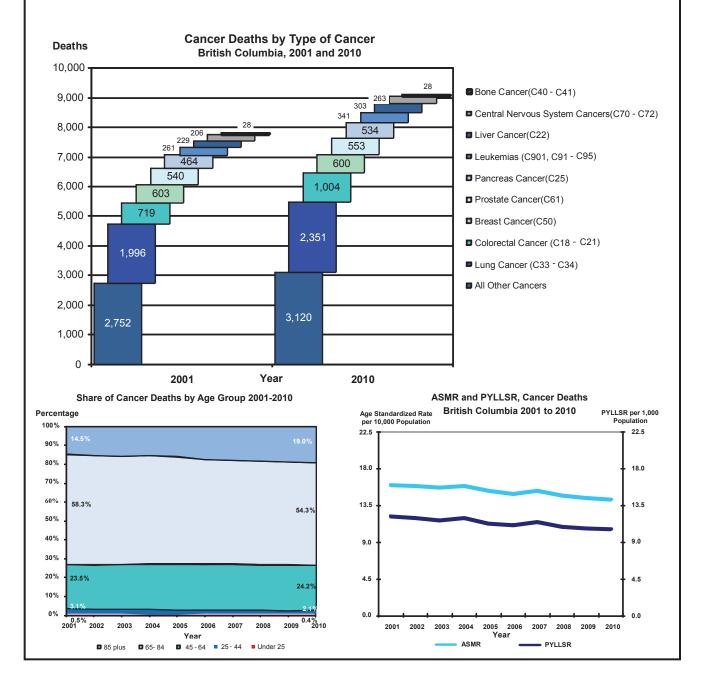


TABLE 21 CAUSES OF DEATH BY GENDER AND AGE

British Columbia, 2010

								ıp (in Ye						Total	
ICD-10 Cod	le(s) Causes of Death	Gender	<1	1–4	5–9	10–14	15–19	20-24	25–44	45–64	65–79	80+	Number	Percent	ASMR
A00-B99	Certain infectious and parasitic	М	3	-	-	-	-	-	17	96	68	120	304	1.9	1.03
	diseases	F	-	-	-	-	1	1	8	53	51	135	249	1.6	0.64
000 D 40	Needland	T	3	-	-	-	1	1	25	149	119	255	553	3.5	0.82
C00-D48	Neoplasms	M F	- 2	2 1	3 4	4	4 5	2 11	92 103	1,110 1,103	2,019 1,622	1,598 1,572	4,834 4,423	30.4 27.8	16.65 12.81
		T	2	3	7	4	9	13	195	2,213	3,641	3,170	9,257	58.2	14.48
D50-D89	Diseases of blood and blood-	М	2	-	-	-	-	-	1	10	9	26	48	0.3	0.16
	forming organs, certain immune	F	-	-	-	-	1	1	1	6	11	37	57	0.4	0.14
	mechanisms	T	2	-	-	-	1	1	2	16	20	63	105	0.7	0.15
E00-E90	Endocrine/nutritional/metabolic diseases	M F	1 1	2 1	- 3	-	1	1 1	18 10	114 60	270 151	289 386	696 613	4.4 3.9	2.41 1.52
		Т	2	3	3	-	1	2	28	174	421	675	1,309	8.2	1.94
F00-F99	Mental and behavioural disorders	М	-	-	-	-	-	-	8	46	114	325	493	3.1	1.63
		F	-	-	-	-	-	-	-	10	82	712	804	5.1	1.60
000 000		T	-	-	-	-	-	-	8	56	196	1,037	1,297	8.2	1.65
G00-G99	Diseases of the nervous system	M F	1 2	-	- 1	1	6 2	3 2	12 10	68 71	178 115	328 497	597 700	3.8 4.4	2.02 1.65
		Τ	3	-	1	1	8	5	22	139	293	825	1,297	8.2	1.82
H00-H59	Diseases of the eye and adnexa	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	-	-	-	-
	D	T	-	-	-	-	-	-	-	-	-	-	-	-	-
H60-H95	Diseases of the ear and mastoid process	M F	-	-	-	-	-	-	-	-	- 1	-	- 2	- 0.0	-+
	process	Τ	-	-	_	_	_	_	_	_	1	1	2	0.0	+
100-199	Diseases of the circulatory	M	-	-	-	-	-	3	68	688	1,292	2,438	4,489	28.2	14.98
	system	F	-	-	-	1	-	3	33	234	806	3,518	4,595	28.9	10.19
		Т	-	-	-	1	-	6	101	922	2,098	5,956	9,084	57.1	12.43
J00-J99	Diseases of the respiratory	M F	2	-	-	1	1	-	6	163	446	973	1,592	9 10.0	. 5
	system		- 2	-	1 1	-	- 1	-	12 18	93 256	367 813	1,067 2,040	1,540 3,132	9.7 19.7	3.66 4.34
K00-K93	Diseases of the digestive	M	-	1	-	-	-	2	28	180	187	2,040	639	4.0	2.16
	system	F	-	-	-	-	-	1	20	87	135	324	567	3.6	1.44
		Т	-	1	-	-	-	3	48	267	322	565	1,206	7.6	1.78
L00-L99	Diseases of the skin and	M	-	-	1	-	-	-	-	2	7	23	33	0.2	0.11
	subcutaneous tissue	F T	-	-	- 1	-	-	-	-	5 7	8 15	39 62	52 85	0.3 0.5	0.12 0.11
M00-M99	Diseases of the musculoskeletal	M	-	-	-	-	-	-	3	6	12	33	54	0.3	0.11
	system and connective tissue	F	-	-	-	-	-	-	2	11	36	78	127	0.8	0.32
		Т	-	-	-	-	-	-	5	17	48	111	181	1.1	0.26
N00-N99	Diseases of the genitourinary	М	-	-	-	-	-	-	1	20	90	224	335	2.1	1.11
	system	F T	-	-	-	-	-	-	2 3	18 38	78	349	447	2.8	0.99
O00-O99	Complications of pregnancy,	M	-	-	-	-	-	-	-	- 30	168	573	782	4.9	1.04
000 000	childbirth and the puerperium	F	-	-	-	-	-	-	2	1	-	-	3	0.0	+
		Т	-	-	-	-	-	-	2	1	-	-	3	0.0	+
P00-P96	Certain conditions originating	М	51	-	-	-	-	-	-	-	-	-	51	0.3	0.32
	in the perinatal period	F	47	1	-	-	-	-	-	-	-	-	48	0.3	0.32
Q00-Q99	Congenital anomalies	T M	98 14	1	2	-	-	-	- 5	- 10	- 5	- 3	99 42	0.6 0.3	0.32
		F	14	1	2	1	-	1	3	4	4	5	35	0.2	0.18
		Т	28	2	4	2	-	2	8	14	9	8	77	0.5	0.19
R00-R99	Symptoms, signs and ill-defined	М	16	1	1	10	17	20	142	219	103	71	600	3.8	2.40
	conditions, unknown causes	F	6	2	3	-	13	15	55	85	67	155	401	2.5	1.29
V01-Y98	External causes	T M	22	3 4	4	10 2	30 41	35 71	197 290	304 351	170 126	226 205	1,001 1,091	6.3 6.9	1.84 4.33
101-190	External causes	F	-	4	-	2	41 19	17	290 92	117	69	205 256	578	3.6	4.33
		T	1	8	1	5	60	88	382	468	195	461	1,669	10.5	3.02
	All causes	М	90	11	8	19	70	103	692	3,084	4,926	6,897	15,900	100.0	54.99
		F	73	10	14	5	41	53	353	1,958	3,603	9,133	15,243	95.9	38.67
	PROVINCIAL TOTAL	Т	163	21	22	24	111	156	1,045	5,042	8,529	16,030	31,143	195.9	46.23

Note: ASMR per 10,000 standard population (Canada 1991 Census). Total percentage may not add up to 100 due to rounding. + Denotes the number of cases is less than five. Non-residents are excluded. Total includes unknown gender. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

Leading Causes of Death

Table 22 shows the 12 leading causes of death in BC. The two leftmost columns list the cause and the corresponding codes in ICD-10. For the 2005-2009 period and the year 2010, the following four values are shown: number of deaths, the rank by number of deaths, the ASMR, and the rank by ASMR. The rows of the table are in the order of the 2010 ASMR rank.

For 2010, the 12 leading causes of death shown in Table 22 were responsible for 84.3 percent of all deaths. The top three causes of death were the same for both time periods, not only in the rank by number of deaths, but also in ASMR rank. They are malignant neoplasms, cardiovascular disease, and cerebrovascular diseases. For 2010, these three leading causes account for 57.1 percent of all deaths.

Figure 35 shows the number of deaths from Table 22 in 2010 graphically. It shows clearly the impact of the top three categories, which cause more than half of all deaths.

Table 23 shows the five leading causes of death in the seven different age groupings. The leading cause of death among those under 1 year of age (infant mortality), were certain conditions originating in the perinatal period with 60.1 percent of the deaths attributable to this cause. The second highest cause of infant deaths was congenital malformations and chromosome abnormalities. Males accounted for 55.2 percent of the deaths among those under 1 year of age. Of all infant deaths, 67.5 percent occurred within the first seven days after birth and 79.1 percent occurred within the first 28 days (see Table 27). Infant mortality is examined in more detail in the next section.

Among children 1 to 14 years old, malignant neoplasms were the most common cause of deaths; most of these were males. The second leading cause of death for this age group was unintentional injuries.

Unintentional injuries were the leading cause of death, particularly for males, in the age groups 15-24 and 25-44. These causes include events such as motor vehicle accidents, falls, and accidental poisonings. A more detailed list of the included causes by ICD codes appears in Appendix 2. Counts of death due to unintentional injuries, suicide, and homicide, (collectively referred to as "external causes of death") in the current year tend to underestimate the actual figures due to known delays in determining final causes of deaths. As a result, it can be anticipated that these numbers will be revised upwards in subsequent annual reports.

Between 15 and 24 years of age, suicide ranked second as the leading cause of death after unintentional injuries (see also Table 35). There were substantially fewer female deaths in this age group as shown in Table 23. In the age group between 25 and 44, malignant neoplasms were the second most common cause of death, with female deaths outnumbering males and comprising the largest proportion of female mortality in this age group.

Malignant neoplasms were the leading cause of death for those between 45 and 64 years, accounting for 35.9 percent of deaths for males and 56.1 percent of deaths for females in this age group.

Between 65 and 84 years of age, 37.3 percent of the deaths were due to malignant neoplasms followed by cardiovascular disease which caused 18.9 percent of deaths. For those 85 years and older, the order of those two cause categories was reversed with cardiovascular disease causing 27.8 percent of deaths and malignant neoplasms causing 15.2 percent.

Malignant neoplasms ranked in the first three leading causes of death in each age group for those over 1 year of age. This cause of death was the overall leading cause of death in BC in 2005-2009, as well as in 2010 (see Table 22 and Figure 35). Notwithstanding, the ASMR for total malignant neoplasms and for lung cancer have declined over the last two decades (see Figures 19 and 20).

TABLE 22 TWELVE LEADING CAUSES OF DEATH BRITISH COLUMBIA, 2005–2009 and 2010

	ICD-10		2005-	-2009		2010					
Cause of Death	Code(s)	Number	Rank	ASMR	Rank	Number	Rank	ASMR	Rank		
Malignant neoplasms	C00-C97	43,472	1	14.92	1	9,097	1	14.25	1		
Cardiovascular disease	100-151	34,038	2	10.45	2	6,446	2	8.85	2		
Cerebrovascular diseases	160-169	11,506	3	3.47	3	2,226	3	2.99	3		
Chronic Pulmonary Disease	J40-J44	6,826	4	2.18	5	1,415	4	2.06	4		
Unintentional injuries Y40-Y86, Y		6,791	5	2.69	4	1,156	5	1.98	5		
Diabetes mellitus	E10-E14	5,025	7	1.65	7	1,048	8	1.54	6		
Vascular/senile dementia	F01, F03	4,367	8	1.21	9	1,140	6	1.40	7		
Pneumonia/Influenza	J09-J181, J188, J189	6,635	6	1.95	6	1,060	7	1.36	8		
Other diseases of digestive system	K00-K67, K80-K93	4,317	9	1.35	8	804	9	1.12	9		
Other disorders of the nervous system	e G00-G25, G31-G99	3,230	11	1.10	10	660	11	1.03	10		
Urinary system diseases N990, N	N00-N39, 991, N995	3,524	10	1.06	11	753	10	1.00	11		
Suicide X60-	-X84, Y870	2,278	12	0.97	12	454	12	0.92	12		
Other causes1		22,902		7.90		4,884		7.73			
TOTAL (All causes of c	leath)	154,911		50.90		31,143		46.23			

DRITISH COLUMBIA, 2003-2009 AND 201

Note: ¹Other causes includes undetermined and pending.

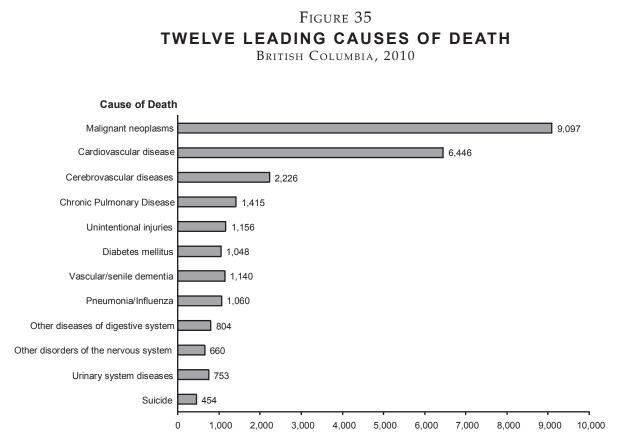
ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).

The ASMR in the current year determined the order in which the causes of death are presented.

Leading causes are ranked according to 2010 ASMR.

Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time.

Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.



Number of Deaths

TABLE 23 LEADING CAUSES OF DEATH BY AGE AND GENDER British Columbia, 2010

		М	ale	Fem	ale	Tota	1
Cause of Death	ICD-10 Code(s)		Percent				
Under 1 Year Old							
1. Certain conditions originating in the perinatal period	g P00-P96	51	56.7	47	64.4	98	60.1
 Congenital malformations ar chromosome abnormalities 		14	15.6	14	19.2	28	17.2
3. Sudden infant death syndror		4	4.4	1	1.4	5	3.1
 Certain infectious and parasi diseases 	tic A00-B99, G14	3	3.3	-	-	3	1.8
 Other disorders of the nervo system 	us G00-G25, G31-G99	1	1.1	2	2.7	3	1.8
Other causes ¹		17	18.9	9	12.3	26	16.0
All causes		90	100.0	73	100.0	163	100.0
1-14 Years Old							
1. Malignant neoplasms	C00-C97	8	21.1	4	13.8	12	17.9
2. Unintentional injuries	V01-X59, Y40-Y86	6	15.8	5	17.2	11	16.4
3. Congenital malformations	Q00-Q99	4	10.5	4	13.8	8	11.9
4. Metabolic disorders	E70-E89	2	5.3	4	13.8	6	9.0
5. Suicide	X60-X84, Y870	1	2.6	2	6.9	3	4.5
Other causes ¹		17	44.7	10	34.5	27	40.3
All causes		38	100.0	29	100.0	67	100.0
15-24 Years Old							
1. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	58	33.5	23	24.5	81	30.3
2. Suicide	X60-X84, Y870	48	27.7	11	11.7	59	22.1
3. Malignant neoplasms	C00-C97	6	3.5	15	16.0	21	7.9
 Other disorders of the nervous system 	G00-G25, G31-G99	9	5.2	4	4.4	13	4.9
5. Homicide	X85-Y09, Y871	5	2.9	2	2.1	7	2.6
Other causes ¹		47	27.2	39	41.5	86	32.2
All causes		173	100.0	94	100.0	267	100.0
25-44 Years Old							
1. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	153	22.1	60	17.0	213	20.4
2. Malignant neoplasms	C00-C97	92	13.3	102	28.9	194	18.6
3. Suicide	X60-X84, Y870	117	16.9	27	7.6	144	13.8
4. Cardiovascular disease	100-151	53	7.7	23	6.5	76	7.3
5. Diseases of Liver	K70-K76	19	2.7	13	3.7	32	3.1
Other causes ¹		258	37.3	128	36.3	386	36.9
All causes		692	100.0	353	100.0	1,045	100.0

(concluded on next page)

Note: Order of leading causes based on total deaths in the specified age group. ¹Other causes includes undetermined and pending. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

TABLE 23 – concluded LEADING CAUSES OF DEATH BY AGE AND GENDER BRITISH COLUMBIA, 2010

		M	ale	Fem	ale	Tota	ıl 🔤
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent	Number	Percent
45-64 Years Old							
1. Malignant neoplasms	C00-C97	1,107	35.9	1,099	56.1	2,206	43.8
2. Cardiovascular disease	100-151	561	18.2	158	8.1	719	14.3
3. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	193	6.3	81	4.1	274	5.4
4. Diseases of liver	K70-K76	126	4.1	55	2.8	181	3.6
5. Suicide	X60-84, Y870	140	4.5	34	1.7	174	3.5
Other causes ¹		957	31.0	531	27.1	1,488	29.5
All causes		3,084	100.0	1,958	100.0	5,042	100.0
65-84 Years Old							
1. Malignant neoplasms	C00-C97	2,720	36.8	2,218	37.8	4,938	37.3
2. Cardiovascular disease	100-151	1,519	20.6	985	16.8	2,504	18.9
3. Cerebrovascular diseases	160-169	436	5.9	441	7.5	877	6.6
4. Chronic Pulmonary Disease	J40-J44	418	5.7	377	6.4	795	6.0
5. Diabetes mellitus	E10-E14	323	4.4	209	3.6	532	4.0
Other causes ¹		1,974	26.7	1,633	27.9	3,607	27.2
All causes		7,390	100.0	5,863	100.0	13,253	100.0
85 Years and Older							
1. Cardiovascular disease	100-151	1,222	27.6	1,922	28.0	3,144	27.8
2. Malignant neoplasms	C00-C97	819	18.5	905	13.2	1,724	15.2
3. Cerebrovascular diseases	160-169	380	8.6	789	11.5	1,169	10.3
4. Vascular/senile dementia	F01, F03	234	5.3	576	8.4	810	7.2
5. Pneumonia/Influenza	J09-J181, J188, J189	284	6.4	379	5.5	663	5.9
Other causes ¹		1,494	33.7	2,302	33.5	3,796	33.6
All causes		4,433	100.0	6,873	100.0	11,306	100.0

Notes for this table are on previous page.

Infant Mortality

BC had lower infant mortality rates than Canada as a whole from 1992 until 2007 the most recent year for which information on Canadian infant mortality rates is available (see Table 5). There were 163 infant deaths in BC in 2010 or 3.73 deaths per 1,000 live births. Twenty years ago, the rate was over 7 per 1,000 live births. This has progressively declined to the rates seen in the last few years.

Table 24 shows the number of infants who died in 2010 by birth weight and maternal age group. The first column has the mother's age group ranging from less than 20 years to 40 years or older. The infants' birth weights are grouped across the top of the table. Across the bottom and down the right side, the table shows row and column totals, percents, and rates per 1,000 live births. The difference in infant mortality rates across the 3 birth weight categories is quite distinct. For infants with birth weights of 2,500 grams or more, 0.95 per 1,000 live births in the same birth weight category died in their first year. In the 1,500-2,499 gram group the rate was 13.97 per 1,000 live births, and infants who weigh less than 1,500 grams had an infant mortality rate of 216.58 per 1,000 live births.

In the past decade there has been no significantly increasing or decreasing trend in the infant mortality rate.

Table 25 repeats the birth weight categories and general format shown in Table 24 but replaces maternal age groups with gestational age. Of the 163 infant deaths in 2010, there were 30 term births (37 to 41 weeks) with birth weights of 2,500 grams or more.

As expected, infant mortality tended to increase as birth weight and gestational age decrease. Of the infant deaths in the period, 44.2 percent were extremely premature (less than 28 weeks) with low birth weight (less than 2,500 grams), 66.9 percent were low birth weight, 70.6 percent were premature (less than 37 weeks) and 63.8 percent were both low birth weight and premature.

Table 26 shows infant mortality in each LHA of the infants' usual residence, for 2005-2009 and for the year 2010. The left two columns show the LHA number and name. The three columns for 2005-2009 show the number of infant deaths in the LHA (Observed Deaths), the ratio, and the rate of infant deaths per 1,000 live births. In this period, there were only 5 LHAs with statistically significant ratios (3 high and 2 low). For 2010, the table indicates the number of deaths in three age ranges: early neonatal (0 to 6 days), neonatal (0 to 27 days), and post-neonatal (28 to 364 days). The last two columns indicate the total number of infant deaths, and the infant death rate per 1,000 live births.

Causes of infant deaths and stillbirths are shown in Table 27. There were 163 infant deaths and 457 stillbirths in 2010. More than half (67.5 percent) of infant deaths in 2010 occurred in the early neonatal period, of those, 93.6 percent were due to congenital anomalies or perinatal conditions. In 2010, perinatal conditions were the cause of 60.1 percent of infant deaths and 92.8 percent of stillbirths.

TABLE 24 INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT

British Columbia, 2010

Age of		Birth Weight	(in Grams)			Total	
Mother	<1500	1500-2499	2500+	N.S.	Number	Percent	Rate
<20	2	-	3	-	5	3.1	3.81
20-24	13	4	12	2	31	19.0	5.38
25-29	29	4	10	2	45	27.6	3.67
30-34	14	8	11	2	35	21.5	2.46
35-39	17	10	2	1	30	18.4	3.66
40+	6	2	1	-	9	5.5	4.68
N.S.	-	-	-	8	8	4.9	
TOTAL	81	28	39	15	163	100.0	3.73
Percent	49.7	17.2	23.9	9.2	100.0		
Rate	216.58	13.97	0.95		3.73		

Note: Infant Mortality – Age at death less than one year.

Rate per 1,000 live births in the specified age or birth weight group. +Denotes the number of cases is less than five. Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

N.S. - Not stated.

TABLE 25

INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT

British Columbia, 2010

Gestational Age		Birth Weigh	t (in Grams)			Total	
(In Weeks)	<1500	1500-2499	2500+	N.S.	Number	Percent	Rate
<20	9	-	-	-	9	5.5	1,125.00
20-27	62	1	-	1	64	39.3	395.06
28-36	10	22	9	1	42	25.8	13.62
37-41	-	5	30	4	39	23.9	0.97
42+	-	-	-	-	-	-	-
N.S.	-	-	-	9	9	5.5	
TOTAL	81	28	39	15	163	100.0	3.73
Percent	49.7	17.2	23.9	9.2	100.0		
Rate	216.58	13.97	0.95		3.73		

Note: Infant Mortality - Age at death less than one year.

Rate per 1,000 live births in the gestational age or birth weight group. + Denotes the number of cases is less than five.

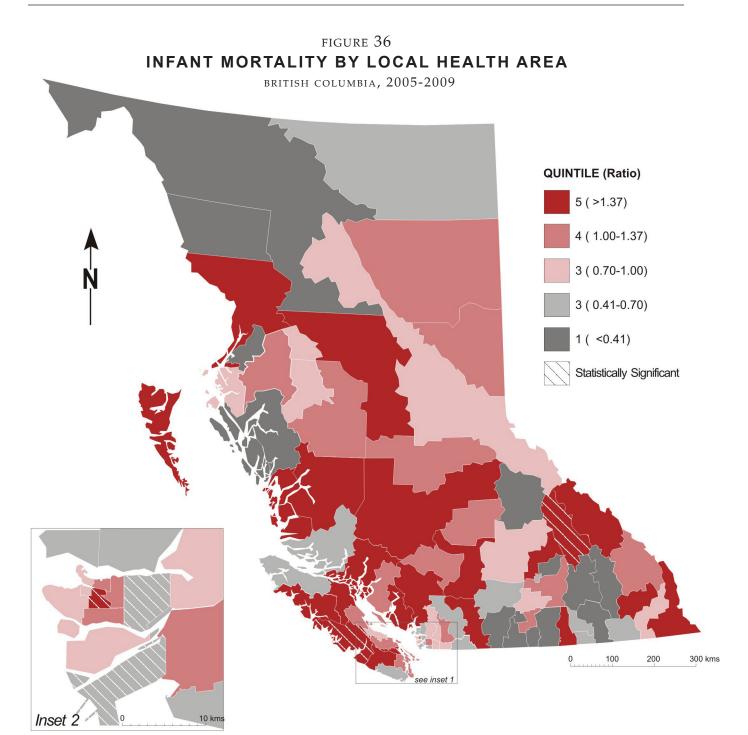
Total percentage may not add up to 100 due to rounding.

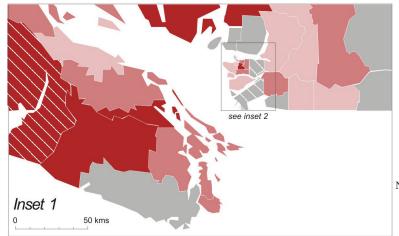
Non-residents are excluded.

N.S. - Not stated.

6			05–2009	_		Add at Daath /:-	2010	T .	atal
	Health Area	Observed Deaths	Ratio (p)	Rate –	0–6	Age at Death (in 0–27	28–364	_ Number	otal Rate
001	Fernie	4	1.45	5.61	0-0	1	- 20-304	1	7.09
002	Cranbrook	4	0.84	3.27	-	1	-	1	3.58
003	Kimberley	2	1.40	5.42	-	-	-	-	-
004 005	Windermere Creston	2 1	1.19 0.43	4.61	-	-	-	-	-
006	Kootenay Lake	-	-	-	1	1	-	1	29.41
007	Nelson	1	0.22	0.85	-	-	-	-	-
009 010	Castlegar Arrow Lakes	1	0.57	2.20	-	-	-	-	-
011	Trail	2	0.65	2.51	-	-	-	-	-
012	Grand Forks	4	3.36	12.99	-	-	-	-	-
013 014	Kettle Valley Southern Okanagan	- 1	- 0.41	1.59	-	-	-	-	-
015	Penticton	8	1.27	4.90	-	-	-	-	-
016	Keremeos	-	-	-	-	-	-	-	-
017 018	Princeton Golden	2	- 1.48	5.75	-	-	-	-	-
019	Revelstoke	5	3.39 *	13.12	-	-	-	-	-
020	Salmon Arm	7	1.37	5.31	-	-	-	-	-
021 022	Armstrong - Spallumcheen Vernon	1 14	0.61 1.30	2.38 5.05	-	-	-	-	-
022	Central Okanagan	24	0.80	3.10	6	8	3	11	6.61
024	Kamloops	17	0.88	3.41	5	5	1	6	5.74
025	100 Mile House	2	1.01	3.91	-	-	-	-	-
026 027	North Thompson Cariboo - Chilcotin	- 10	- 1.79	6.92	-	- 1	-	- 1	3.75
028	Quesnel	6	1.24	4.79	1	1	1	2	8.66
029	Lillooet	1	1.09	4.22	1	1	-	1	20.83
030	South Cariboo	3	2.53 0.42	9.80	-	-	- 1	- 1	- 0.42
031 032	Merritt Hope	1 3	2.11	1.64 8.17	-	-	1	1	9.43 16.39
033	Chilliwack	13	0.68	2.61	5	6	1	7	6.90
034	Abbotsford	29	0.88	3.42	9	10	-	10	5.79
035 037	Langley Delta	22 7	0.85 0.42 *	3.27 1.61	3 2	3 3	1	4 3	2.91 3.56
038	Richmond	25	0.77	2.98	3	3	2	5	3.02
040	New Westminster	9	0.69	2.66	5	6	1	7	10.09
041 042	Burnaby Maple Bidge	29 14	0.67 * 0.77	2.60 2.98	2 4	2 4	1	3 4	1.36 4.14
042	Maple Ridge Coquitlam	33	0.81	3.15	6	8	-	8	3.79
044	North Vancouver	15	0.64	2.49	1	1	-	1	0.85
045	West Vancouver-Bowen Island	3	0.56	2.16	-	-	-	-	-
046 047	Sunshine Coast Powell River	6 3	1.48 1.13	5.72 4.39	- 1	1 1	-	1 1	4.52 6.80
048	Howe Sound	13	1.50	5.82	1	1	-	1	2.12
049	Bella Coola Valley	2	2.33	9.01	-	-	-	-	-
050	Queen Charlotte	3 1	3.46	13.39	-	-	-	-	-
051 052	Snow Country Prince Rupert	3	9.57 0.90	37.04 3.47	-	-	-	-	-
053	Upper Skeena	1	0.79	3.04	1	1	-	1	16.13
054	Smithers	4	0.95	3.69	-	-	1	1	4.35
055 056	Burns Lake Nechako	2 8	1.16 1.90	4.48	-	1	-	1 2	16.13
057	Prince George	18	0.84	3.26	2	3	2	5	4.65
059	Peace River South	8	1.29	4.98	2	2	1	3	9.77
060	Peace River North	12	1.07	4.14	- 9	1	-	1	1.67
061 062	Greater Victoria Sooke	36 9	1.04 0.68	4.01 2.62	3	10 3	2	10 5	5.48 6.05
063	Saanich	10	1.32	5.13	-	-	-	-	-
064	Gulf Islands	2	1.17	4.55	-	-	-	-	-
065 066	Cowichan Lake Cowichan	14 3	1.36 3.54	5.26 13.70	1	1	-	1	1.92
067	Ladysmith	4	1.37	5.32	-	-	-	-	-
068	Nanaimo	23	1.35	5.21	2	2	-	2	2.13
069	Qualicum	4 15	0.83 2.30 *	3.22	-	-	1 3	1 3	3.88
070 071	Alberni Courtenay	10	2.30 * 1.06	8.91 4.11	- 2	2	-	2	9.01 3.68
072	Campbell River	12	1.61	6.22	2	2	-	2	5.78
075	Mission	11	1.25	4.83	1	1	-	1	2.14
076 077	Agassiz - Harrison Summerland	1	0.53	2.06	1	1	-	1	11.90
077	Enderby	-	-	-	-	-	-	-	-
080	Kitimat	-	-	-	-	-	-	-	-
081	Fort Nelson	1	0.52	2.01	-	-	-	-	-
083 084	Central Coast Vancouver Island West	2 1	3.47 2.29	13.42 8.85	-	-	-	-	-
085	Vancouver Island North	2	0.67	2.61	-	-	-	-	-
087	Stikine	-	-	-	-	-	-	-	
088 092	Terrace Nisga'a	6	1.25	4.85	-	-	2	2	8.77
092	Telegraph Creek	-	-	-	-	-	-	-	-
161	Vancouver - City Centre	13	0.72	2.78	2	2	-	2	1.88
162	Vancouver - Dwtn Eastside	10	1.07	4.15	-	-	-	-	-
163	Vancouver - North East Vancouver - Westside	22 21	1.03 0.95	3.98 3.67	1	1 1	1	2 2	1.89 1.83
	vancouver - vvestside			3.67 7.57	- 9	9	I	2 9	9.42
164 165	Vancouver - Midtown	39	1.96	1.57	9	3	-	9	9.42
164 165 166	Vancouver - Midtown Vancouver - South	35	1.37	5.31	4	4	1	5	4.19
164 165							1 6		

Notes for this table follow the map.





Notes to Table 26

Notes to Table 26 Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). +Denotes significance based on less than five deaths. Rate per 1,000 live births in the specified LHA. Ratio - observed over the expected deaths. Non- residents are excluded. Total includes residents with unknown LHA.

Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of L HAs.

TABLE 27 SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS

British Columbia, 2010

		Infant Deaths – Age Group (in Da				n Days)	ys) Stillbirths		
Cause of Death Congenital anomalies	ICD-10 Code(s)	<7	7–27	28–364	Total	Rate ¹	Number	Rate	
- of the nervous system	Q00-Q07	3	1	-	4	0.92	4	0.91	
- of the eye, ear, face & neck	Q10-Q18	-	-	-	-	-	-	-	
- of the heart and circulatory system	Q20-Q28	5	-	2	7	1.60	6	1.36	
- of the respiratory system	Q30-Q34	-	-	-	-	-	-	-	
- of the digestive system	Q35-Q45	-	-	-	-	-	-	-	
- of the genital organs	Q50-Q56	-	-	-	-	-	-	-	
- of the urinary system	Q60-Q64	4	-	-	4	0.92	-	-	
- of the musculoskeletal system	Q65-Q79	2	-	1	3	0.69	-	-	
Other and multiple system syndromes	Q80-Q89	-	-	1	1	0.23	6	1.36	
Chromosomal anomalies	Q90-Q99	8	-	1	9	2.06	7	1.59	
Total deaths due to congenital anomalies	Q00-Q99	22	1	5	28	6.41	23	5.21	
Perinatal conditions									
Infant affected by maternal factors	P00-P04	33	-	-	33	7.56	102	23.12	
Premature/postmature and fetal growth disorders	P05-P08	18	3	2	23	5.27	6	1.36	
Birth trauma	P10-P15	-	-	-	-	-	-		
Respiratory and cardiovascular disorders	P20-P29	13	6	1	20	4.58	7	1.59	
Infections specific to the perinatal period	P35-P39	1	2	-	3	0.69	1	0.23	
Hemorrhage and hematological disorders	P50-P61	2	1	-	3	0.69	1	0.23	
Transitory endocrine and metabolic disorders	P70-P74	-	-	-	-	-	1	0.23	
Digestive system disorders of fetus and newborn	P75-P78	-	1	-	1	0.23	-	-	
Other disorders originating in the perinatal period	P80-P94, P96	14	1	-	15	3.44	228	51.67	
Fetal death of unknown cause	P95	-	-	-	-	-	78	17.68	
Total deaths due to perinatal conditions	P00-P96	81	14	3	98	22.44	424	96.09	
Pneumonia/influenza	J09-J18.1, J18.8-J18.9	-	-	1	1	0.23	-	-	
Sudden infant death syndrome (SIDS) ³	R95	-	1	4	5	1.15	-	-	
Other causes ³		7	3	21	31	7.10	10	2.27	
TOTAL PERCENT		110 67.5	19 11.7	34 20.9	163 100.0	37.33	457	103.57	

Note: ¹Rate per 10,000 live births.

²Rate per 10,000 total births (live births plus stillbirths).

³ Some of the infant deaths that were still under investigation (ICD-10 code R99) may later be identified as SIDS. The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation. Non-residents are excluded.

Deaths Due to HIV

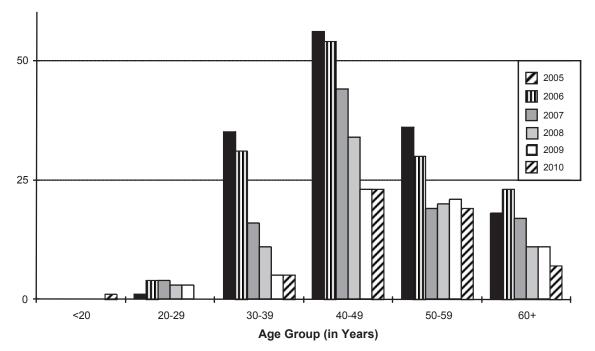
Mortality due to Human Immunodeficiency Virus (HIV) peaked in 1995 and has seen a general downward trend since then.

Table 28 shows the number of deaths due to HIV from 1995 to 2010 broken out by gender and six age groups. The percentage of the total deaths in each year is shown for each age group. At the bottom of the table are counts and percentages for the entire time period. Figure 37 shows that in the period from 2005-2010 most deaths due to HIV disease in BC occurred in individuals who were between 40 and 49 years of age.

Table 29 shows that the yearly numbers of HIV deaths over the past ten years numbers have fluctuated with no significantly increasing or decreasing trend. The HSDA 32-Vancouver had the highest mortality rate (13.03 deaths per 100,000 population), from 1995 to 2010.



Number of Deaths



		GENDI BRITIS		ID AGE		JP		
Year of Death	Gender	<20	20–29	Age at Death 30–39	1 (in Years) 40–49	50–59	60+	Total
1995	M F T Percent	-	17 6 23 7.8	116 7 123 41.7	103 4 107 36.3	31 1 32 10.8	9 1 10 3.4	276 19 295 100.0
1996	M F T Percent	3 - 3 1.2	9 4 13 5.1	107 6 113 44.7	73 6 79 31.2	34 - 34 13.4	10 1 11 4.3	236 17 253 100.0
1997	M F T Percent		11 2 13 11.1	40 7 47 40.2	33 4 37 31.6	11 1 12 10.3	6 2 8 6.8	100.0 101 16 117 100.0
1998	M F T Percent	-	6 4 10 9.1	32 8 40 36.4	44 3 47 42.7	7 1 8 7.3	4 1 5 4.5	93 17 110 100.0
1999	M F T Percent	1 - 1 1.0	3 - 3 2.9	37 4 41 39.8	32 7 39 37.9	13 2 15 14.6	4 - 4 3.9	90 13 103 100.0
2000	M F T Percent		5 4 9 7.4	31 6 37 30.3	31 9 40 32.8	23 3 26 21.3	8 2 10 8.2	98 24 122 100.0
2001	M F T Percent		- 4 4 3.6	30 8 38 34.2	33 4 37 33.3	19 3 22 19.8	9 1 10 9.0	91 20 111 100.0
2002	M F T Percent		4 1 5 4.7	20 6 26 24.5	37 12 49 46.2	15 3 18 17.0	8 - 8 7.5	84 22 106 100.0
2003	M F T Percent		2 4 6 4.7	34 6 40 31.5	26 10 36 28.3	32 3 35 27.6	10 - 10 7.9	104 23 127 100.0
2004	M F T Percent	- - -	1 1 1.0	17 7 24 22.9	30 8 38 36.2	29 1 30 28.6	10 2 12 11.4	86 19 105 100.0
2005	M F T Percent	- - -	1 - 1 0.7	27 8 35 24.0	43 13 56 38.4	31 5 36 24.7	18 - 18 12.3	120 26 146 100.0
2006	M F T Percent		2 2 4 2.8	22 9 31 21.8	43 11 54 38.0	27 3 30 21.1	20 3 23 16.2	114 28 142 100.0
2007	M F T Percent		1 3 4 4.0	15 1 16 16.0	34 10 44 44.0	16 3 19 19.0	14 3 17 17.0	80 20 100 100.0
2008	M F T Percent	- - -	1 2 3 3.8	7 4 11 13.9	28 6 34 43.0	14 6 20 25.3	10 1 11 13.9	60 19 79 100.0
2009	M F T Percent		2 1 3 4.8	3 2 5 7.9	18 5 23 36.5	19 2 21 33.3	11 - 11 17.5	53 10 63 100.0
2010	M F T Percent	- 1 1.8	- - -	3 2 5 9.1	17 6 23 41.8	15 4 19 34.5	7 - 7 12.7	42 13 55 100.0
1995-2010	M F T Percent	4 1 5 0.2	64 38 102 5.0	541 91 632 31.1	625 118 743 36.5	336 41 377 18.5	158 17 175 8.6	1,728 306 2,034 100.0

TABLE 28 DEATHS DUE TO HIV DISEASE BY

Note: HIV Disease – ICD-10 codes B20–B24. Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

TABLE 29 DEATHS DUE TO HIV DISEASE BY HEALTH SERVICE DELIVERY AREA BRITISH COLUMBIA, 1995–2010

	Health Service																	19	95–2010)
	Delivery Area	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Number	Percent	Rate
11	East Kootenay	1	-	2	-	-	-	່ 1	-	1	-	່ 1	-	-	-	-	-	6	0.3	0.56
12	Kootenay Boundary	3	2	-	1	1	-	-	2	-	1	-	2	-	2	-	-	14	0.7	1.28
13	Okanagan	9	7	2	4	2	3	3	3	6	2	5	11	1	2	2	3	65	3.2	1.45
14	Thompson Cariboo Shuswap	-	3	2	2	2	2	6	2	4	6	2	4	3	1	3	1	43	2.1	1.43
21	Fraser East	6	7	1	5	3	3	2	4	1	5	6	4	1	3	2	2	55	2.7	1.52
22	Fraser North	21	15	8	6	7	11	8	10	10	8	8	10	7	6	3	12	150	7.4	1.93
23	Fraser South	17	23	6	4	11	7	11	10	8	5	12	9	13	5	5	5	151	7.4	1.71
31	Richmond	4	4	5	2	2	1	1	-	1	2	3	1	1	2	1	-	30	1.5	1.20
32	Vancouver	182	146	66	65	53	73	60	62	74	50	78	67	42	27	31	17	1,093	53.7	13.03
33	North Shore/ Coast Garibaldi	12	11	7	5	5	3	3	2	6	3	7	5	6	7	2	1	85	4.2	2.27
41	South Vancouver Island	17	21	10	10	13	7	9	3	8	9	9	17	11	11	6	2	163	8.0	3.33
42	Central Vancouver Island	14	6	4	3	4	8	4	4	4	5	6	3	7	4	5	4	85	4.2	2.48
43	North Vancouver Island	2	1	1	-	-	4	2	-	1	2	3	2	-	2	-	1	21	1.0	1.30
51	Northwest	2	1	-	-	-	-	-	-	-	1	2	-	2	3	1	3	15	0.7	1.34
52	Northern Interior	4	5	2	2	-	-	1	3	3	5	4	7	6	2	2	1	47	2.3	2.29
53	Northeast	1	-	-	1	-	-	-	1	-	1	-	-	-	1	-	1	6	0.3	0.66
	N.S.	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	2	5	0.2	
	PROVINCIAL TOTAL	295	253	117	110	103	122	111	106	127	105	146	142	100	79	63	55	2,034	100.0	3.47

Note: Health Service Delivery Area based on usual residence. Rate per 100,000 population in specified area. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. – Not stated.

External Causes of Death

Table 30 shows the number of deaths for males and females from "external causes" which include unintentional deaths, deaths due to suicide, homicide, and deaths where intent was undetermined. Also shown are ASMRs. These rates of death per 10,000 standard population are used to compare statistics from other time periods and other jurisdictions. The Glossary explains ASMR and the Methodology section gives an example of the calculation method.

During 2010, there were 1,669 deaths due to external causes or approximately 54 external cause deaths for each 1,000 deaths in BC (see Table 30).

Of the 1,669 deaths:

- 454 were suicides
- 240 were motor vehicle accidents
- 493 were unintentional falls
- 259 were unintentional poisonings
- 34 were accidental drownings
- 35 were homicides
- 76 were due to other external causes

Males accounted for 65.4 percent of deaths by external causes as shown in Table 30. The leading four causes of external deaths in males in 2010 (in ASMR rank order) were suicide (1.50), accidental falls (0.77), accidental poisoning (0.74), and motor vehicle accidents (0.66). For females, the leading four (in ASMR rank order) were accidental falls (0.56), suicide (0.35), accidental poisoning (0.34), and motor vehicle accidents (0.33).

Table 31 shows the allocation of external death causes according to the LHA of the deceased's usual residence. The highest ASMRs in 2010 are found in the following LHAs (with 5 or more deaths): Vancouver Island North (11.17), Keremeos (10.28), Agassiz - Harrison (8.33), Fort Nelson (8.06), and Fernie (7.53).

Table 32 shows the number of deaths from suicide classified by month of occurrence and by gender. Percentages across months are also given. In 2010, there were about 4.0 times more male suicides than female suicides. The data for 2010 shows that December was the month with the fewest number of suicides (21) while May was the month with the highest number of suicides (55).

Coroner's investigations into "externally caused" deaths can be lengthy, resulting in delays in determining the final causes. For this reason, recent year counts and rates may be underestimated and therefore should be interpreted with caution.

British Columbia, 2010										
		Ma	le	Fem	nale	Tot	al			
Cause of Death	ICD-10 Code	Number	ASMR	Number	ASMR	Number	ASMR			
Motor vehicle accidents V20-V79, V803-V805, V820	V02-V04, V09, V12-V14, V190-V196, -V821, V823-V890, V892, V899, Y850	159	0.66	81	0.33	240	0.49			
Other transport accidents V198-V199, V800-V802, V806- V893, V91, V93-V99, Y859	V01, V05-V06, V10-V11, V15-V18, V809, V812-V819, V822-V829, V891,	14	0.06	3	0.01	17	0.03			
Accidental drowning (inc water transport)	V90, V92, W65-W74	27	0.11	7	0.03	34	0.07			
Accidental falls	W00-W19	231	0.77	262	0.56	493	0.66			
Accident caused by machinery	W24, W28-W31	4	0.01	-	-	4	0.01			
Accidental firearm discharge	W32-W34	1	0.00	-	-	1	0.00			
Exposure to smoke, fire and flames	X00-X09	17	0.07	8	0.03	25	0.05			
Accidental poisoning	X40-X49	175	0.74	84	0.34	259	0.54			
All other accidents W75-W99, X10-X39,	W20-W23, W25-W27, W35-W64, X50-X59, Y35-Y36, Y40-Y84, Y88	45	0.17	31	0.08	76	0.12			
Suicide	X60-X84, Y870	364	1.50	90	0.35	454	0.92			
Homicide	X85-Y09, Y871	31	0.15	4	0.02	35	0.08			
External events of undetermined intent	Y10-Y34, Y872	16	0.06	8	0.03	24	0.05			
Sequelae of other external causes	Y86, Y89	7	0.02	-	-	7	0.01			
TOTAL		1,091	4.33	578	1.77	1,669	3.02			

TABLE 30 EXTERNAL CAUSES OF DEATH BY GENDER

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

		Motor Vehicle	Other Transport	Unintenti		Fire/	Unintentional	1			Tot	
	lealth Area	Accidents	Accidents	Poisoning	Falls	Flames	Drowning	Suicide	Homicide	Other	Deaths	ASMR
001 002	Fernie Cranbrook	2 4	-	1 1	5 2	- 1	1	3 6	- 2	- 1	12 17	7.53 5.94
002	Kimberley	4	-	1	2	-	-	-	-	-	2	5.94 2.45
004	Windermere	2	1	-	2	-	-	2	-	-	7	5.56
005	Creston	2	-	-	7	-	-	3	-	2	14	6.98
006 007	Kootenay Lake Nelson	-	-	-	- 5	-	- 1	1 4	-	-	1 10	3.13 2.80
009	Castlegar	1	1	1	3	-	1	-	-	1	8	3.82
010	Arrow Lakes	-	-	-	2	-	-	-	-	2	4	4.08
011	Trail	1	-	1	4	-	-	1	-	-	7	2.79
012 013	Grand Forks Kettle Valley	2	-	-	3	-	1	1 1	-	-	7 1	6.03 1.35
013	Southern Okanagan	1	-	-	3	-	-	3	-	1	8	3.52
015	Penticton	1	-	1	14	-	-	5	-	-	21	2.41
016 017	Keremeos Princeton	1	-	1	1	-	1	1 1	-	1	6 1	10.28 3.80
018	Golden	-	-	-	1	-	-	-	-	-	1	1.17
019	Revelstoke	-	-	-	1	-	-	2	-	-	3	2.63
020	Salmon Arm	1	1	4	8	-	2	8	-	2	26	6.60
021 022	Armstrong - Spallumcheen Vernon	- 6	-	- 5	1 6	-	-	1 9	- 1	1 2	3 30	1.54 4.05
022	Central Okanagan	0 7	- 4	5 5	15	1	- 2	9 19	-	∠ 8	30 61	4.05 2.57
024	Kamloops	12	2	12	15	-	4	12	-	2	59	4.98
025	100 Mile House	3	-	-	2	1	1	2	-	-	9	3.44
026 027	North Thompson Cariboo - Chilcotin	1 5	-	1 1	- 5	-	-	1 3	-	- 4	3 18	7.54 6.26
027	Quesnel	8	-	4	2	-	-	3	-	4	10	7.31
029	Lillooet	-	-	1	1	-	-	1	-	-	3	6.61
030	South Cariboo	-	-	- 2	-	-	-	2	-	-	2	3.21
031 032	Merritt Hope	1 2	-	2	1 2	-	- 1	3 2	1	-	8 8	5.84 7.51
033	Chilliwack	2	-	4	15	2	1	7	1	1	33	2.68
034	Abbotsford	10	1	13	13	-	2	4	2	3	48	2.97
035	Langley	4	-	9	7 15	-	-	11	-	2	33 37	2.25 3.03
037 038	Delta Richmond	5 5	-	3 5	15 20	-	1	8 11	-	5 7	37 48	3.03
040	New Westminster	6	-	4	4	-	-	4	-	1	19	2.32
041	Burnaby	3	-	12	13	2	1	18	2	4	55	1.92
042	Maple Ridge	6	-	8	4	-	-	4	1	1	24	2.12
043 044	Coquitlam North Vancouver	4	1	8	19 12	-	-	11 13	3	4	50 33	2.20
045	West Vancouver-Bowen Island	1	-	1	9	2	-	2	-	-	15	1.70
046	Sunshine Coast	1	-	1	3	-	1	6	-	-	12	3.82
047	Powell River	3	-	1	2	-	-	4	-	2	12	7.40
048 049	Howe Sound Bella Coola Valley	1	-	-	6	-	-	3	-	- 2	10 2	2.89 5.69
050	Queen Charlotte	-	-	2	-	-	-	-	-	-	2	3.61
051	Snow Country	-	-	-	-	-	-	1	-	-	1	14.33
052	Prince Rupert	1	-	1	4	-	1	2 1	-	-	9	5.15
053 054	Upper Skeena Smithers	2 1	-	1 1	-	-	-	2	-	-	4 5	7.54 3.52
055	Burns Lake	4	-	2	-	-	-	-	-	-	6	5.97
056	Nechako	1	-	1	1	-	-	3	-	1	7	4.92
057 059	Prince George Peace River South	13 6	-	3	7 3	-	-	15 2	2	3 1	43 12	4.37 4.01
060	Peace River North	7	-	-	2	-	-	2 5	-	2	12	4.01
061	Greater Victoria	12	1	18	48	1	-	32	2	6	120	3.44
062	Sooke	4	-	3	7	-	-	8	-	-	22	3.07
063 064	Saanich Gulf Islands	-	-	2	17 1	-	1 1	6 2	-	4	30 4	3.18 1.72
064	Cowichan	- 4	-	- 3	8	-	-	2 7	-	2	4 25	3.79
066	Lake Cowichan	1	-	-	-	-	-	2	-	-	3	5.22
067	Ladysmith	1	1	-	4	-	-	2	-	-	8	2.91
068 069	Nanaimo Qualicum	3	1	10 2	12 6	1	-	12 2	1	1	41 14	3.11 1.99
069	Alberni	3 1	-	2	6	-	2	4	-	-	14	4.35
071	Courtenay	2	1	2	9	-	-	9	-	3	26	3.65
072	Campbell River	3	-	6	7	1	-	11	1	-	29	6.71
075 076	Mission Agassiz - Harrison	6 3	-	6 1	3	1	-	3 1	-	1 1	20 6	4.19 8.33
076	Summerland	3	-	-	3	-	-	3	-	-	9	6.33 6.11
078	Enderby	-	-	1	4	-	-	1	-	-	6	4.89
080	Kitimat	-	-	2	1	-	-	-	-	-	3	2.21
081 083	Fort Nelson Central Coast	3	-	-	-	-	-	1	1	-	5	8.06
083	Vancouver Island West	-	-	-	-	-	-	-	-	-	-	-
085	Vancouver Island North	2	-	1	1	3	3	4	-	-	14	11.17
087	Stikine	-	-	-	-	-	-		-	-	-	-
088 092	Terrace Nisga'a	4 1	-	3	1	-	-	7	-	1	16 1	6.63 3.86
092	Telegraph Creek	-	-	-	-	-	-	- 1	-	-	2	27.36
161	Vancouver - City Centre	1	-	8	6	-	-	16	1	3	35	2.31
162	Vancouver - Downtown E.side	1	-	21	2	-	-	21	-	2	47	5.18
163 164	Vancouver - North East Vancouver - Westside	-	-	1 6	7 12	1	- 1	9 6	1	-	19 28	1.49 1.55
164	Vancouver - Westside Vancouver - Midtown	2	-	ю 1	4	1	-	6 5	-	3	28 18	1.55
166	Vancouver - South	4	-	4	15	2	-	9	3	1	38	2.05
201	Surrey	17	1	25	20	1	2	27	5	10	108	2.63
202	South Surrey/White Rock	4	-	5	18	1	-	5	3	2	38	3.13
202	PROVINCIAL TOTAL	240	17	259	493	25	34	454	35	112	1,669	3.02

Notes for table follow table 32.

EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA, British Columbia, 2010

3 Table

TABLE 32 SUICIDE DEATHS BY MONTH AND GENDER British Columbia, 2010

	M	ale	Fen	nale	Total			
Month	Number	Percent	Number	Percent	Number	Percent		
January	33	9.1	8	8.9	41	9.0		
February	32	8.8	7	7.8	39	8.6		
March	29	8.0	16	17.8	45	9.9		
April	27	7.4	9	10.0	36	7.9		
May	45	12.4	10	11.1	55	12.1		
June	26	7.1	6	6.7	32	7.0		
July	36	9.9	5	5.6	41	9.0		
August	30	8.2	7	7.8	37	8.1		
September	41	11.3	2	2.2	43	9.5		
October	29	8.0	11	12.2	40	8.8		
November	20	5.5	4	4.4	24	5.3		
December	16	4.4	5	5.6	21	4.6		
TOTAL	364	100.0	90	100.0	454	100.0		

Note: Suicide Deaths - ICD-10 codes X60-X84, Y87.0.

Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

Notes to Table 31

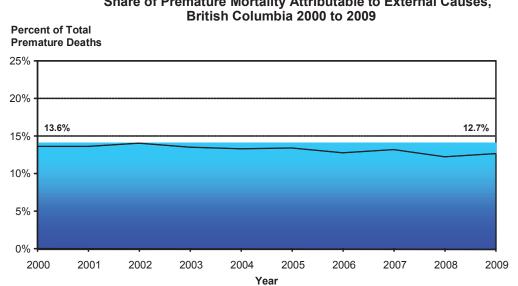
Note: Based on usual residence. ASMR – per 10,000 standard population (Canada 1991 Census). PERCENT – Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. Other is comprised of accident caused by machinery, accidental firearm discharge, all other accidents, external event of undetermined intent, and sequelae of other external causes. Total includes residents with unknown LHA.



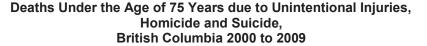
Vital Statistics Information Box

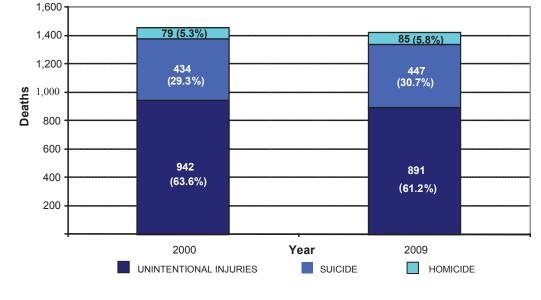
PREMATURE (<75 YEARS) EXTERNAL CAUSES OF DEATH IN BRITISH COLUMBIA, 2000 TO 2009

 ${f F}$ rom 2000 to 2009, deaths among those under the age of 75 have accounted for just 38.1 percent of all deaths; however, 78.2 percent of deaths from external causes were in this age group. The share of premature deaths attributable to external causes has fallen from 13.6 percent in 2000 to 12.7 percent in 2009. Unintentional injuries account for the vast majority (61.2 percent in 2009) of deaths from external causes among those under the age of 75.



Share of Premature Mortality Attributable to External Causes,





Mortality Due to All Causes of Death

Table 33 shows the number of deaths from all causes in each LHA for 2010 and the previous five-year period. The Standardized Mortality Ratio (SMR) columns compare the actual number of deaths in the LHA (observed) with the number that would be expected if the LHA had the same age-specific death rates as the whole province.

Table 33 also shows 95 percent confidence intervals for the SMR, which provides a measure of its variability. Near half (44) of LHAs had statistically significant ratios in 2010 (30 high and 14 low), 60 LHAs had statistically significant ratios (45 high and 15 low) in the period of 2005-2009, and 39 LHAs had statistically significant ratios (27 high and 12 low) in both 2010 and the previous five-year period.

In 2010, the LHAs with the five highest statistically significant SMRs were Central Coast (2.12), Telegraph Creek (1.77), Vancouver Island North (1.76), Fort Nelson (1.75), and Snow Country (1.62).

Figure 38 shows the SMRs grouped into colour-coded quintiles. The map provides a graphical view of the provincial variation of SMRs. Lower ratios were more frequently observed in the south and higher ratios in central and northern BC.

Vital Statistics Information Box

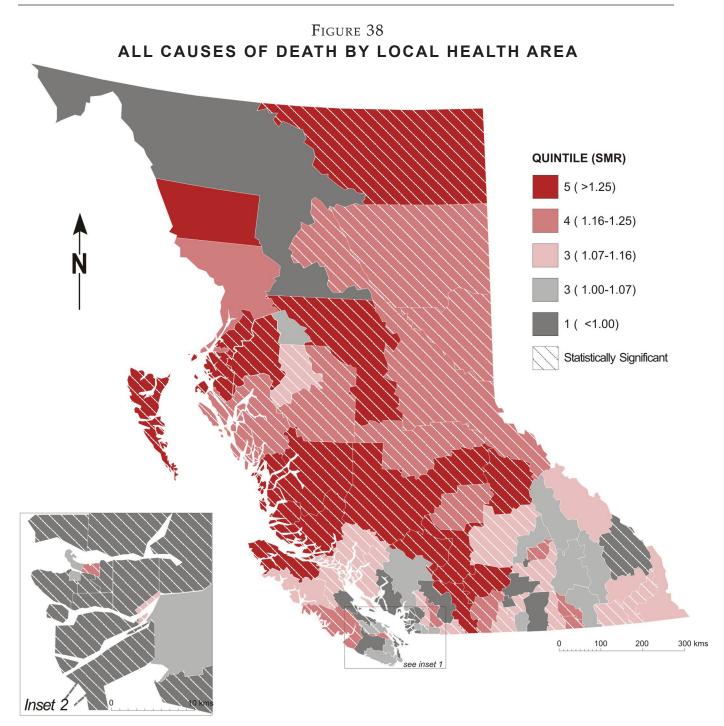
DEATHS AGED 65+ BY GENDER AND HEALTH SERVICE DELIVERY AREA

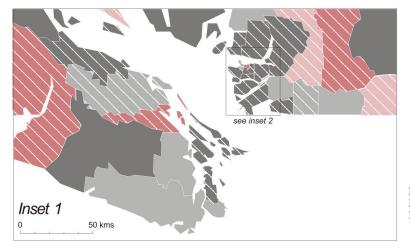
British Columbia, 2010

Haalth Comice Delivery Arres	Condor	05.00	70.74	75 70		at Death	00.04	05.00	4001	Tatel	%											
Health Service Delivery Area	Gender	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+	Total	65+											
11 East Kootenay	M	23	44	48	54	44	28	6	1		77.5%											
	F	10	24	31	52	60	48	15	2		81.8%											
12 Kootenay Boundary	M	27	34	48	61	67	28	9	2		72.1%											
	F	18	36	43	56	78	59	33	4		83.6%											
13 Okanagan	M	116	165	243	301	285	168	69	9	'	80.2%											
	F	95	122	157	260	378	263	139	15	-	87.5%											
14 Thompson Cariboo Shuswap	M	93	133	148	159	125	47	22	2		71.5%											
	F	65	95	94	122	138	88	41	8		80.5%											
21 Fraser East	M	88	97	141	158	152	80	38	3	'	75.0%											
	F	76	95	120	153	186	164	67	15		85.0%											
22 Fraser North	M	124	181	215	251	279	164	48	6		74.4%											
	F	99	130	185	256	332	292	110	28	,	82.4%											
23 Fraser South	M	190	184	279	331	320	216	62	12	,	72.3%											
	F	121	156	208	331	435	357	139	25	,	84.1%											
31 Richmond	M	38	48	67	71	76	41	9	0		77.8%											
	F	30	29	52	68	93	80	36	12		83.5%											
32 Vancouver	M	139	169	248	270	263	175	73	12	,	72.4%											
	F	82	106	165	243	325	290	169	58	,	84.3%											
33 North Shore/Coast Garibaldi	М	69	82	126	139	149	94	41	4		78.6%											
	F	40	49	75	136	194	159	87	18		83.7%											
41 South Vancouver Island	M	103	110	191	244	287	192	66	12	,	78.1%											
	F	84	85	162	234	385	316	175	30		87.7%											
42 Central Vancouver Island	M	114	134	169	203	206	132	30	8	'	75.9%											
	F	79	86	136	185	264	175	87	16	,	84.2%											
43 North Vancouver Island	М	38	61	69	81	65	34	16	1		70.5%											
	F	32	50	49	60	94	60	27	5		79.2%											
51 Northwest	M	26	28	33	41	29	12	2	1		66.9%											
	F	17	26	18	32	16	14	9	1		67.5%											
52 Northern Interior	M	56	62	59	70	42	29	5	1		64.7%											
	F	39	40	44	59	49	39	16	4		69.4%											
53 Northeast	M	15	21	27	30	15	12	6	0		58.1%											
	F	13	10	24	13	30	14	4	3		70.7%											
Provincial Total	М	1,260	1,554	2,112	2,464	2,404	1,453	502	74	15,900												
	F	901	1,139	1,563	2,260	3,057	2,418	1,154	244	15,243	83.6%											
Note: %65+ is the percentage of Provincial Total inclu	0				o resident	s of the sp	ecified are	a by gende	r.		Note: %65+ is the percentage of deaths aged 65 or older out of all deaths to residents of the specified area by gender.											

8	I	2005	-2009				201	0			
	Health Area	Observed	OMP	(n)	Observed	Expected	OMD	(n)	95% Conf	idenc	
	Health Area	Deaths	SMR	(p)	Deaths	Deaths	SMR	(p)	Lower		Upper
001 002	Fernie Cranbrook	433 1,054	1.08 1.15	*	75 215	77.68 182.92	0.97 1.18	*	0.76 1.02	-	1.21 1.34
003	Kimberley	411	1.08		79	74.32	1.06		0.84	-	1.32
004	Windermere	253	0.76	*	68	67.18	1.01		0.79	-	1.28
005 006	Creston Kostopov Lako	747 161	1.09 1.02	*	144 37	133.57 30.19	1.08 1.23		0.91 0.86	-	1.27 1.69
000	Kootenay Lake Nelson	935	1.02		179	172.39	1.23		0.89	-	1.20
009	Castlegar	623	1.21	*	116	100.64	1.15		0.95	-	1.38
010	Arrow Lakes	231	1.06		44	41.64	1.06		0.77	-	1.42
011	Trail Grand Forks	1,093	1.20 1.13	*	252	174.53	1.44 1.32	*	1.27 1.10	-	1.63 1.59
012 013	Kettle Valley	515 126	0.87		118 28	89.15 30.60	0.92		0.61	-	1.39
014	Southern Okanagan	1,300	1.05		238	242.71	0.98		0.86	-	1.11
015	Penticton	2,663	1.07	*	496	477.22	1.04		0.95	-	1.13
016	Keremeos	344	1.15	*	69 65	56.17	1.23	*	0.96	-	1.55
017 018	Princeton Golden	296 208	1.20 1.09		35	49.79 37.40	1.31 0.94		1.01 0.65	-	1.66 1.30
019	Revelstoke	259	1.02		51	50.17	1.02		0.76	-	1.34
020	Salmon Arm	1,632	1.01		368	317.65	1.16	*	1.04	-	1.28
021	Armstrong - Spallumcheen	392	0.97	*	101	82.71	1.22		0.99	-	1.48
022 023	Vernon Central Okanagan	3,108 7,414	1.08 0.98	Â	617 1,528	574.52 1,510.95	1.07 1.01		0.99 0.96	-	1.16 1.06
023	Kamloops	4,129	1.12	*	829	758.55	1.09	*	1.02	-	1.17
025	100 Mile House	649	1.17	*	125	111.04	1.13		0.94	-	1.34
026	North Thompson	193	1.37	*	40	27.33	1.46	*	1.05	-	1.99
027 028	Cariboo - Chilcotin Quesnel	923 881	1.26 1.21	*	197 200	151.74 150.66	1.30 1.33	*	1.12 1.15	-	1.49 1.52
028	Lillooet	211	1.49	*	32	27.33	1.33		0.80	-	1.65
030	South Cariboo	357	1.27	*	71	57.55	1.23		0.96	-	1.56
031	Merritt	550	1.35	*	116	78.96	1.47	*	1.21	-	1.76
032 033	Hope Chilliwack	527 3,530	1.45 1.14	*	110 678	70.09 635.06	1.57 1.07	*	1.29 0.99	-	1.89 1.15
034	Abbotsford	4,626	1.01		916	898.58	1.07		0.95	-	1.09
035	Langley	4,461	1.05	*	946	942.58	1.00		0.94	-	1.07
037	Delta	3,133	0.95	*	644	735.51	0.88	*	0.81	-	0.95
038 040	Richmond New Westminster	4,479 2,544	0.73 1.15	*	929 489	1,199.76 423.90	0.77 1.15	*	0.73 1.05	-	0.83 1.26
040	Burnaby	2,544 6,890	0.93	*	1,321	1,420.10	0.93	*	0.88	-	0.98
042	Maple Ridge	2,839	1.13	*	648	516.59	1.25	*	1.16	-	1.35
043	Coquitlam	4,760	0.91	*	983	1,087.27	0.90	*	0.85	-	0.96
044	North Vancouver	4,145	0.90	*	751	924.11	0.81	*	0.76	-	0.87
045 046	West Vancouver-Bowen Island Sunshine Coast	2,351 1,350	0.83 0.97	Â	426 273	540.11 276.67	0.79 0.99	^	0.72 0.87	-	0.87 1.11
047	Powell River	996	1.09	*	217	180.44	1.20	*	1.05	-	1.37
048	Howe Sound	607	1.03		103	125.37	0.82	*	0.67	-	1.00
049	Bella Coola Valley	103	1.26	*	20	15.94	1.25		0.77	-	1.94
050 051	Queen Charlotte Snow Country	168 16	1.42 1.20	^	32 4	21.95 2.47	1.46 1.62		1.00 0.44	-	2.06 4.15
052	Prince Rupert	474	1.20	*	88	75.43	1.02		0.94	-	1.44
053	Upper Skeena	128	1.05		30	23.32	1.29		0.87	-	1.84
054	Smithers	451	1.16	*	72	82.28	0.88		0.68	-	1.10
055 056	Burns Lake Nechako	280 536	1.23 1.41	*	55 99	44.53 79.85	1.23 1.24	*	0.93 1.01	-	1.61 1.51
057	Prince George	2,770	1.23	*	565	462.56	1.22	*	1.12	-	1.33
059	Peace River South	828	1.21	*	184	137.94	1.33	*	1.15	-	1.54
060	Peace River North	732	1.19	*	162	123.78	1.31	*	1.12	-	1.53
061 062	Greater Victoria Sooke	10,785 1,711	1.01 1.00		2,075 357	1,969.55 361.64	1.05 0.99		1.01 0.89	-	1.10 1.10
062	Saanich	3,246	0.84	*	641	753.36	0.99	*	0.79	-	0.92
064	Gulf Islands	682	0.78	*	146	170.17	0.86		0.72	-	1.01
065	Cowichan	2,295	1.01		461	460.25	1.00	*	0.91	-	1.10
066 067	Lake Cowichan	212 1,108	0.98 1.21	*	61 224	43.12 179.66	1.41 1.25	*	1.08 1.09	-	1.82 1.42
067	Ladysmith Nanaimo	4,495	1.21	*	976	851.16	1.25	*	1.09	-	1.42
069	Qualicum	2,564	0.95	*	503	546.45	0.92		0.84	-	1.00
070	Alberni	1,424	1.21	*	308	233.75	1.32	*	1.17	-	1.47
071	Courtenay	2,565	0.99	*	535 352	539.15	0.99	*	0.91	-	1.08
072 075	Campbell River Mission	1,531 1,430	1.16 1.24	*	262	277.51 228.04	1.27 1.15	*	1.14 1.01	-	1.41 1.30
075	Agassiz - Harrison	337	0.94		73	66.35	1.10		0.86	-	1.30
077	Summerland	683	0.93		131	141.05	0.93		0.78	-	1.10
078	Enderby	393	1.22	*	79	65.49	1.21		0.95	-	1.50
080 081	Kitimat Fort Nelson	306 106	1.21 1.48	*	66 28	53.54 15.96	1.23 1.75	*	0.95 1.17	-	1.57 2.54
083	Central Coast	62	2.05	*	12	5.67	2.12	*	1.09	-	2.54 3.70
084	Vancouver Island West	67	1.07		10	10.49	0.95		0.46	-	1.75
085	Vancouver Island North	415	1.60	*	97	55.01	1.76	*	1.43	-	2.15
087	Stikine	22 670	0.87	*	5 144	4.83	1.03	*	0.33	-	2.41
088 092	Terrace Nisga'a	670 73	1.35 1.93	*	144	104.10 7.68	1.38 1.04		1.17 0.45	-	1.63 2.05
092	Telegraph Creek	20	1.32		5	2.82	1.04		0.45	-	4.14
161	Vancouver - City Centre	3,150	1.02		615	603.78	1.02		0.94	-	1.10
162	Vancouver - Downtown E.side	2,514	1.21	*	446	384.42	1.16	*	1.05	-	1.27
163	Vancouver - North East Vancouver - Westside	2,893 3,727	0.86 0.80	*	563 738	674.74 875.17	0.83 0.84	*	0.77 0.78	-	0.91 0.91
	valicouver - VVESISIUE			*		494.24		*	0.78	-	0.91
164	Vancouver - Midtown	2.283	0.91		408	434.24	U.O.3				
164 165 166	Vancouver - Midtown Vancouver - South	2,283 4,218	0.91 0.85	*	408 800	946.81	0.83 0.84	*	0.79	-	0.91
164 165								* *			

Note: SMR - Standardized Mortality Ratio. *Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). Total includes residents with unknown LHA. Observed deaths include unknown gender.





Notes to Table 33 SMR - Standardized Mortality Ratio. *Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). Total includes residents with unknown LHA. Observed deaths include unknown gender.

Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of LHAs.

Potential Years of Life Lost

Potential Years of Life Lost (PYLL) gives an indication of "premature" death by totalling the number of years British Columbians "lost" prior to age 75 years. For example, an infant death at the age of 6 months would have lost 74.5 years of life. The upper limit of 75 is used for both genders. PYLL indicates the importance of the various causes of premature death by giving more weight to deaths that occurred at younger ages than those that occurred later in life. Bear in mind that the PYLL is weighted according to age. Thus a death at a younger age contributes more to total PYLL than a death at an older age.

The tables and figures in this section portray the impact of premature mortality. The Glossary further defines PYLL. The precise calculation methods for the various indicators derived from PYLL are referenced in the tables in this section and are shown in the Methodology section.

Table 34 shows several PYLL based indicators for deaths of those under 75 years of age contrasted with total deaths and ASMR for all ages for various causes of death. The No. of Deaths column shows the number of persons under 75 years of age who have died due to each cause group. The Percent of PYLL column shows each disease category's proportion of the total PYLL for all causes. The Average PYLL column is the disease category's Total PYLL divided by number of deaths. The PYLLSR column is the rate of PYLL per 1,000 standard population. See PYLL Standardized Rate in the Glossary and the Methodology section for computation details.

Because PYLL focuses on premature mortality rather than on the simple fact of death, it is useful in assessing causes of death in terms of the extent to which each contributes to reduction in lifespan. In Table 34, the column labelled Average PYLL is helpful in exploring this effect.

Motor vehicle accidents (MVAs), which claim many young lives, have a high value for average PYLL at 33.5 years. Malignant neoplasms, on the other hand, although claiming many lives (4,660 under the age of 75) have a relatively low average PYLL at 12.6 years since Malignant neoplasms tend to afflict older individuals more frequently.

Figure 39 compares the profiles of PYLLSR and ASMR contrasting several major causes of death. The graph shows that there are significant differences in the impact of the various causes of death on PYLL and overall death rate. The clearest contrast is for external causes of death: a relatively moderate ASMR but very high PYLLSR. This clearly shows the contribution of "external causes" to premature mortality.

In Table 35, causes of death in 2010 have been ranked according to the Total PYLL for all genders in four age groups. The central portion of the table indicates the number of deaths and number of years lost for males, females, and both genders. The PYLL column shows all the years lost in the age group due to each cause category. The PYLL % column indicates the percent of all PYLL in the age group due to each cause.

Most of the PYLL under 15 years were due to conditions originating in the perinatal period around birth (see Table 35). The majority of those deaths occurred less than 7 days after birth (see Table 27) and were more frequent among females than males (see Table 21).

Suicide had the highest PYLL in the age group of 15 to 24 year olds. Most of these deaths were to males and therefore the majority of the PYLL in this age group was attributable to males as shown in Table 35.

In the age group of 25 to 44 years, for females malignant neoplasms were responsible for a higher PYLL than the sum of all other major causes combined. Among males in this age group, suicide accounted for the largest PYLL, although PYLL due to MVA and malignant neoplasms were high as well.

Malignant neoplasms accounted for the largest share of PYLL for both genders in the 45-74 year age group (see Table 35).

Figure 40 presents the PYLLSR values from Table 35 contrasting the gender differences.

Males in the last three age groups have a higher PYLL than females, although the standardized PYLL rates due to malignant neoplasms were similar in the two adult age groups.

External causes have been covered in a previous section, but Table 36 presents their geographic distribution (by LHA) in terms of PYLL index. These causes in general are considered to be more preventable than 'natural' causes of death and therefore attract attention because of the greater potential for their reduction.

The table also displays PYLL and the observed number of years of lost life in each LHA for both the period 2005 to 2009 and the year 2010. For 2010, the expected PYLL is also reported. This calculation is based on the age distribution in the LHA adjusted to the provincial age and gender specific rate.

During the period, more than half (45) of the LHAs had PYLL Indices that indicated significant differences compared to BC as a whole. Of these, 32 were higher than expected.

Vital Statistics Information Box

				A	GE AT				_		Mal 91-20		d Fen	IALE						
Gender	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Male	105	111	111	109	108	108	106	109	108	109	104	104	107	106	107	105	107	106	105	105
Female	113	107	110	110	108	109	111	113	108	111	113	111	107	108	110	109	110	110	109	108

TABLE 34

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

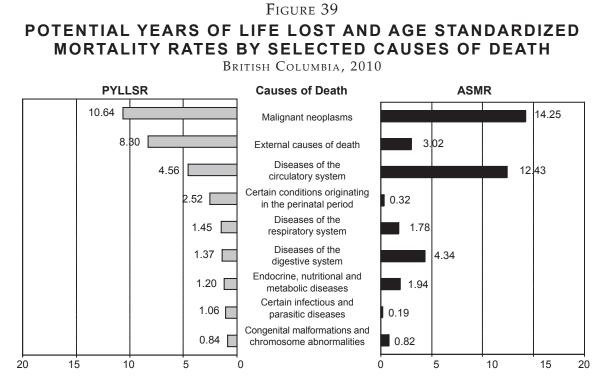
British Columbia, 2	0	1	0	ļ
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		PYLL (Age Under 75 Years)					Mor	Mortality (All Ages)			
		No. of	Total	Percent	Average		No. of	Percent			
Cause of Death	ICD-10 Code(s)	Deaths	PYLL	of PYLL	PYLL	PYLLSR	Deaths	of Deaths	ASMR		
Certain infectious and parasitic diseases	A00-B99,G14	249	4,353.5	2.3	17.5	0.84	553	1.8	0.82		
- HIV disease	B20-B24	53	1,367.5	0.7	25.8	0.27	55	0.2	0.10		
Malignant neoplasms	C00-C97	4,660	58,747.5	31.7	12.6	10.64	9,097	29.2	14.25		
 Malignant neoplasm of trachea and lung 	C33-C34	1,287	14,257.0	7.7	11.1	2.42	2,351	7.5	3.75		
 Malignant neoplasm of female breast 	C500-C509	374	5,665.0	3.1	15.1	2.01	600	1.9	1.77		
 Malignant neoplasm of colon and rectum 	C18-C21	499	6,117.5	3.3	12.3	1.09	1,004	3.2	1.56		
Endocrine nutritional and metabolic diseases	E00-E89	451	5,885.0	3.2	13.0	1.20	1,309	4.2	1.94		
- Diabetes mellitus	E10-E14	348	3,810.0	2.1	10.9	0.70	1,048	3.4	1.54		
Diseases of the circulatory system	100-199	2,125	25,157.5	13.6	11.8	4.56	9,084	29.2	12.43		
- Ischemic heart diseases	120-125	1,177	13,592.5	7.3	11.5	2.38	4,120	13.2	5.74		
- Cerebrovascular diseases	160-169	407	4,637.5	2.5	11.4	0.84	2,226	7.1	2.99		
Diseases of the respiratory system	J00-J98	710	7,369.0	4.0	10.4	1.37	3,132	10.1	4.34		
 Pneumonia/Influenza (excluding hypostatic) 	J09-J181, J188, J189	153	2,284.5	1.2	14.9	0.44	1,060	3.4	1.36		
- Chronic Pulmonary Disease	J40-J44	395	3,027.5	1.6	7.7	0.53	1,415	4.5	2.06		
Diseases of the digestive system	K00-K93	519	7,762.0	4.2	15.0	1.45	1,206	3.9	1.78		
- Chronic liver disease/cirrhosis	K70, K73-74, K760-K761	281	4,777.5	2.6	17.0	0.88	353	1.1	0.58		
Congenital malformations and chromosome abnormalities	Q00-Q99	67	3,377.5	1.8	50.4	1.06	77	0.2	0.19		
Certain conditions originating in the perinatal period	P00-P96	99	7,373.0	4.0	74.5	2.52	99	0.3	0.32		
External causes of death	V01-Y98	1,122	34,443.0	18.6	30.7	8.30	1,669	5.4	3.02		
- Motor vehicle accidents V12-V14, V190-V196, V20- V820-V821, V823-V890, V	, ,	211	7,072.0	3.8	33.5	1.74	240	0.8	0.49		
- Suicide	X60-X84, Y870	408	12,945.0	7.0	31.7	3.11	454	1.5	0.92		
Other causes ¹		1,436	30,897.5	16.7	21.5	7.18	4,917	15.8	7.13		
All causes		11,438	185,365.5	100.0	16.2	39.12	31,143	100.0	46.23		

Note: PYLL - denotes the total number of years of life lost from an established life expectancy (75 years).

PYLL - denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR - per 1,000 standard population (Canada 1991 Census).
ASMR - per 10,000 standard population (Canada 1991 Census).
¹Other causes includes undetermined and pending.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such established are provide and perturbative or such as the pumpered to the pumpered to the pumpered.

categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.



Note: PYLLSR - Potential Years of Life Lost Standardized Rate (age under 75 years) per 1,000 standard population. ASMR - Age Standardized Mortality Rate per 10,000 standard population.



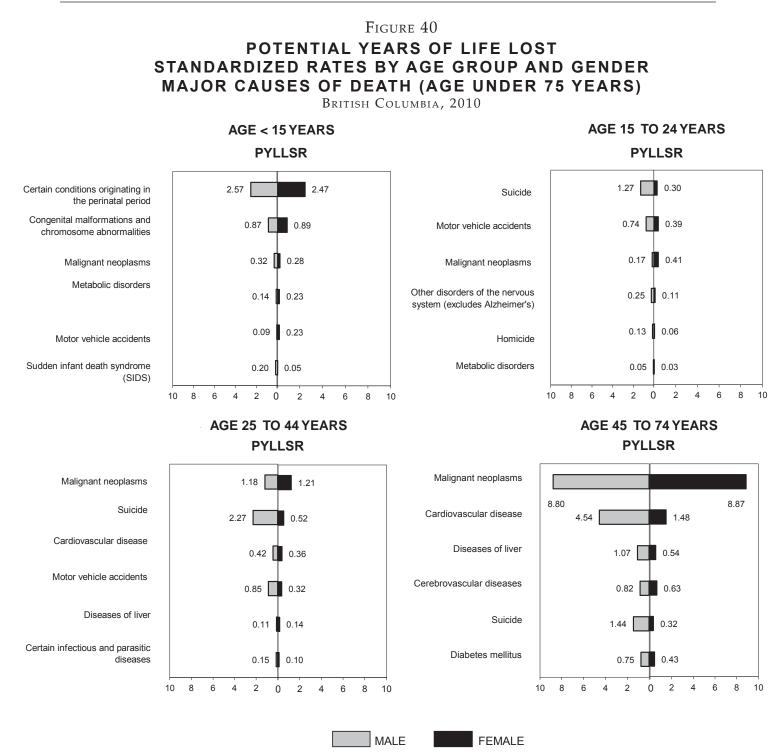
TABLE 35

POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

British Columbia, 2010

		Male					Fema	ale		Total			
Cause of Death	ICD-10 Code(s)	Death	s PYLL	PYLL %	PYLLSR	Deaths	PYLL P	YLL %	PYLLSR	Deaths	PYLL P	7LL % F	YLLSR
Under 15 Years Old													
Certain conditions originat	ting P00-P96	51	3,799.5	41.2	2.57	48	3,573.5	48.2	2.47	99	7,373.0	44.3	2.52
in the perinatal period													
Congenital malformations	Q00-Q99	18	1,312.5	14.2	0.87	18	1,312.5	17.7	0.89	36	2625.0	15.8	0.88
and chromosome abnorm	alities												
Malignant neoplasms	C00-C97	8	529.0	5.7	0.32	6	423.5	5.7	0.28	14	952.5	5.7	0.30
Metabolic disorders	E70-E89	3	218.5	2.4	0.14	5	349.0	4.7	0.23	8	567.5	3.4	0.19
Motor vehicle accidents V12-V14, V190-V196, V20	V02-V04, V09, 0-V79, V803-V805,	2	144.0	1.6	0.09	5	353.0	4.8	0.23	7	497.0	3.0	0.16
V820-V821, V823-V890, \	/892, V899, Y850												
Sudden infant death	R95	4	298.0	3.2	0.20	1	74.5	1.0	0.05	5	372.5	2.2	0.13
syndrome (SIDS)													
Other causes ¹		42	2,923.0	31.7	1.88	19	1,330.0	17.9	0.88	61	4,253.0	25.6	1.38
All causes		128	9,224.5	100.0	6.08	102	7,416.0	100.0	5.04	230	16,640.5	100.0	5.57
15-24 Years Old													
Suicide	X60-X84, Y870	48	2,620.0	27.8	1.27	11	597.5	11.6	0.30	59	3,217.5	22.1	0.79
Motor vehicle accidents V12-V14, V190-V196, V20		28	1,525.0	16.2	0.74	14	780.0	15.2	0.39	42	2,305.0	15.68	0.57
V820-V821, V823-V890, \	C00-C97	6	335.0	3.6	0.17	15	812.5	15.8	0.41	21	1.147.5	7.9	0.28
Malignant neoplasms Other disorders of the G00		9	502.5	5.0 5.3	0.17	4	220.0	4.3	0.41	13	722.5	7.9 5.0	0.20
nervous system (excludes	Alzheimer's)												
Homicide	X85-Y09, Y871	5	272.5	2.9	0.13	2	110.0	2.1	0.06	7	382.5	2.6	0.09
Metabolic disorders	E70-E89	2	110.0	1.2	0.05	1	52.5	1.0	0.03	3	162.5	1.1	0.04
Other causes ¹		75	4,067.5	43.1	1.97	47	2,567.5	50.0	1.29	122	6,635.0	45.5	1.63
All causes		173	9,432.5	100.0	4.58	94	5,140.0	100.0	2.58	267	14,572.5	100.0	3.59
25-44 Years Old	000 007			10.0		400	. =	~		101			1.00
Malignant neoplasms	C00-C97	92	3,400.0	12.8	1.18	102	3,700.0	27.7	1.21	194	7,100.0	17.8	1.20
Suicide	X60-X84, Y870	117	4,647.5	17.5	2.27	27	1,097.5	8.2	0.52	144	5,745.0	14.4	1.39
Cardiovascular disease	100-151	53	1,852.5	7.0	0.42	23	882.5	6.6	0.36	76	2,735.0	6.9	0.39
Motor vehicle accidents	V02-V04, V09,	47	1,867.5	7.0	0.85	18	705.0	5.3	0.32	65	2,572.5	6.4	0.58
V12-V14, V190-V196, V20 V820-V821, V823-V890, V													
Diseases of liver	K70-K76	19	657.5	2.5	0.11	13	457.5	3.4	0.14	32	1,115.5	2.8	0.12
Certain infectious and	A00-B99, G14	17	607.5	2.3	0.11	8	295.0	2.2	0.14	25	902.5	2.3	0.12
parasitic diseases	A00-D00, O14	''	007.0	2.0	0.15	0	200.0	2.2	0.10	20	302.5	2.0	0.15
Other causes ¹		347	13.547.5	51.0	6.13	162	6.205.0	46.5	2.56	509	19,752.5	49.5	4.33
All causes		-	26,580.0		11.11		13,342.5	100.0		1,045	39,922.5		8.13
45-74 Years Old		002	20,00010				10,012.0	10010	0.20	1,010	00,012.0	10010	0.10
Malignant neoplasms	C00-C97	2,308	25,065.0	36.2	8.80	2,123	24,482.5	54.4	8.87	4 431	49,547.5	43.4	8.85
Cardiovascular disease	100-151		12,415.0	17.9	4.54	416	3,885.0	8.6	1.48		16,300.0	43.4 14.3	3.03
Diseases of liver	K70-K76	184	2,640.0	3.8	1.07	93	1,302.5	2.9	0.54	277	3,942.5	3.5	0.80
Cerebrovascular diseases		217	2,262.5	3.3	0.82	170	1,610.0	3.6	0.63	387	3,872.5	3.4	0.73
Suicide	X60-X84, Y870	164	3,090.0	4.5	1.44	38	705.0	1.6	0.32	202	3,795.0	3.3	0.88
Diabetes mellitus	E10-E14	225	2,157.5	3.1	0.75	107	1,062.5	2.4	0.43	332	3,3220.0	2.8	0.59
Other causes ¹			21,615.0	31.2	8.71	1,051	11,937.5	26.5		2,735	33,352.5	29.4	6.82
All causes			69,245.0		26.41		44,985.0				114,230.0		

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years). PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census). ¹Other causes includes undetermined and pending. Causes of death are ordered by total PYLL in the age group. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.



Note: Causes of death are ordered by total deaths (Table 35).

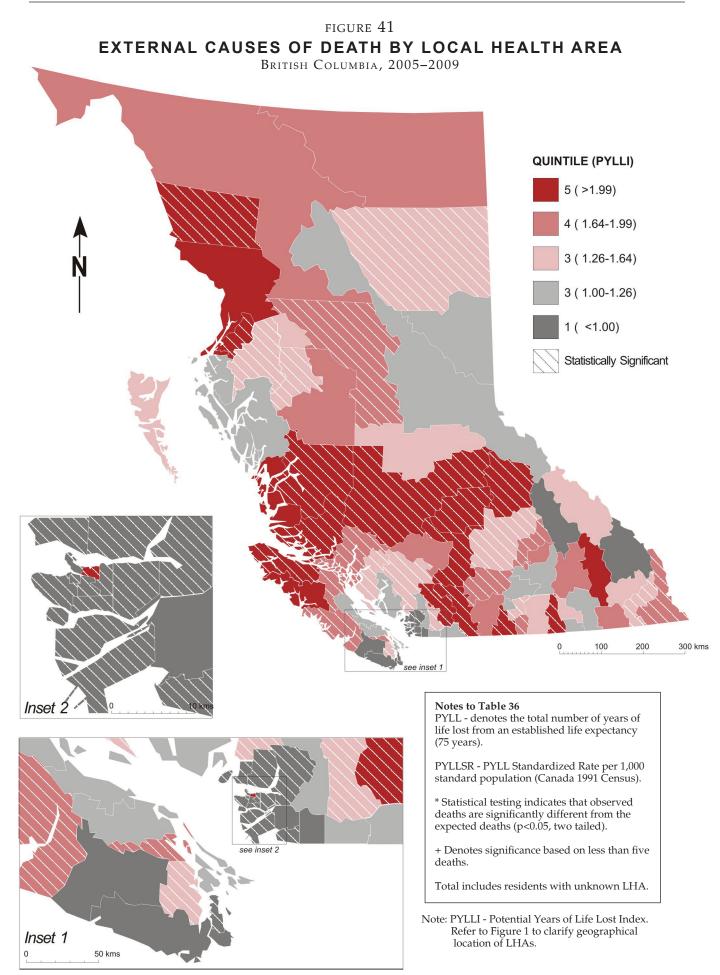
PYLLSR-PYLL Standardized Rate per 1,000 population.

'The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation.

Table		
	ND 2010	
	009 AI	
A	A, 2005-2009	
ARE.		
ALTH	Colum	
L HE), British Columbi	
LOCA	(S), BF	
ТΒΥ	YEAR	
EARS OF LIFE LOST BY LOCAL HEALTH AREA	H (AGE UNDER 75 YEARS)	
F LIF	IUND	
RS O	(AGE	
L YEA	H	
NTIA	OF DEA	
POTEN'	SES C	
	CAU	
	FRNAL CAUSES	
	EXTE	

96		I	2005–2009		1		20	10		1
		Observed	Observed	PYLL	Observed	Observed	Expected	PYLL	95% Confider	nce Limit
Local H	ealth Area	Deaths	PYLL	Index (p)	Deaths	PYLL	PYLL	Index (p)	Lower	Upper
001	Fernie	43	1,392.5	1.71 *	7	222.5	118.73	1.87	0.32 -	3.43
002 003	Cranbrook Kimberley	69 20	2,042.5 535.0	1.60 * 1.34	14	425.0 65.0	185.51 59.42	2.29 1.09	0.95 - 0.00 -	3.64 2.63
004	Windermere	16	390.0	0.75	4	120.0	81.90	1.47	0.00 -	2.98
005 006	Creston Kootenay Lake	31 14	857.5 380.0	1.66 2.18	8	225.0 57.5	79.56 26.25	2.83 2.19	0.56 - 0.00 -	5.10 6.48
007	Nelson	52	1,560.0	1.21	5	157.5	188.96	0.83	0.03 -	1.64
009 010	Castlegar Arrow Lakes	28 11	937.0 357.5	1.40 1.69	5	132.5 47.5	100.47 31.65	1.32 1.50	0.00 - 0.00 -	2.69 3.33
010	Trail	40	1,035.0	1.10	4	110.0	134.07	0.82	0.00 -	1.68
012 013	Grand Forks Kettle Valley	29 10	827.5 220.0	2.08 * 1.34	4	105.0 22.5	56.50 24.13	1.86 0.93	0.00 - 0.00 -	3.77 2.76
013	Southern Okanagan	47	1,357.5	1.74 *	4	150.0	114.78	1.31	0.00 -	2.68
015	Penticton	89	2,762.5	1.47 * 2.70 *	75	187.5	273.02	0.69	0.11 - 0.00 -	1.26
016 017	Keremeos Princeton	18 13	560.0 407.5	2.79 * 1.90) 5 1	142.0 52.5	29.99 32.45	4.73 1.62	0.00 - 0.00 -	10.22 4.79
018	Golden	15	552.5	1.32	2	-	60.96	-	0.00 -	-
019 020	Revelstoke Salmon Arm	12 88	310.0 3,020.0	0.71 1.95 *	18	45.0 535.0	60.93 231.74	0.74 2.31 *	0.00 - 1.08 -	1.79 3.54
021	Armstrong - Spallumcheen	26	910.0	1.99 *	1	17.5	65.70	0.27 +	0.00 -	0.79
022 023	Vernon Central Okanagan	128 314	3,830.0 9,509.5	1.24 1.06	24 39	679.5 1,094.5	452.58 1,357.16	1.50 0.81	0.80 - 0.51 -	2.20 1.10
024	Kamloops	265	7,717.5	1.35 *	44	1,459.0	825.99	1.77 *	1.17 -	2.36
025 026	100 Mile House North Thompson	50 14	1,400.0 535.0	2.02 * 2.54 *	8	105.0 67.5	102.34 29.91	1.03 2.26	0.17 - 0.00 -	1.88 5.27
027	Cariboo - Chilcotin	113	3,597.5	2.51 *	14	510.0	203.05	2.51 *	1.05 -	3.97
028 029	Quesnel Lillooet	54 14	1,610.0 405.0	1.33 1.80	17 2	527.5 35.0	174.39 32.83	3.02 * 1.07	1.37 - 0.00 -	4.68 3.01
030	South Cariboo	22	685.0	2.00 *	2	90.0	50.99	1.77	0.00 -	4.30
031 032	Merritt Hope	40 27	1,010.0 847.5	1.75 * 2.23 *	7 5	177.5 112.5	82.26 55.95	2.16 2.01	0.29 - 0.00 -	4.03 4.02
032	Chilliwack	154	4,875.0	1.18	15	412.5	620.41	0.66	0.28 -	1.02
034 035	Abbotsford	216 183	7,721.5 6,092.5	1.06 0.90	34 23	1,045.0 722.5	1,073.68 970.59	0.97 0.74	0.61 - 0.40 -	1.33 1.08
035	Langley Delta	105	6,092.5 3,479.0	0.90	19	722.5 522.5	970.59 723.64	0.74 0.72	0.40 - 0.36 -	1.08
038	Richmond	141	4,589.5	0.44 *	22	710.0	1,556.82	0.46 *	0.24 -	0.67
040 041	New Westminster Burnaby	113 254	3,357.5 7,510.0	0.94 0.61 *	16 37	460.0 977.5	550.56 1,844.66	0.84 0.53 *	0.37 - 0.33 -	1.30 0.73
042	Maple Ŕidge	154	4,985.0	1.01	18	610.0	734.26	0.83	0.40 -	1.26
043 044	Coquitlam North Vancouver	234 140	7,299.5 4,416.5	0.61 * 0.60 *	33 20	1,172.5 665.0	1,782.42 1,082.58	0.66 * 0.61 *	0.41 - 0.32 -	0.90 0.91
045	West Vancouver-Bowen Island	44	1,329.5	0.57 *	4	160.0	347.63	0.46 +	0.00 -	0.94
046 047	Sunshine Coast Powell River	50 48	1,424.5 1,395.0	1.10 1.52 *	9	242.5 337.5	192.28 135.34	1.26 2.49	0.37 - 0.82 -	2.15 4.17
048	Howe Sound	85	2,952.5	1.41 *	8	310.0	313.76	0.99	0.28 -	1.70
049 050	Bella Coola Valley Queen Charlotte	15 13	582.5 332.5	3.80 * 1.28	1 2	2.5 75.0	21.45 35.09	0.12 + 2.14	0.00 - 0.00 -	0.35 5.33
051	Snow Country	2	100.0	3.52	1	32.5	3.93	8.26	0.00 -	24.45
052 053	Prince Rupert Upper Skeena	32 12	915.0 475.0	1.19 1.63	8	180.0 130.0	107.69 41.87	1.67 3.10	0.24 - 0.00 -	3.10 6.57
054	Smithers	42	1,355.0	1.56 *	4	130.0	123.18	1.06	0.00 -	2.14
055 056	Burns Lake Nechako	21 43	697.5 1,402.5	1.66 1.73 *	6	145.0 205.0	60.92 111.00	2.38 1.85	0.40 - 0.09 -	4.36 3.60
057	Prince George	196	6,336.5	1.17	35	1,252.0	765.09	1.64 *	1.03 -	2.24
059 060	Peace River South Peace River North	52 82	1,640.0 3,179.0	1.13 1.59 *	9 15	342.5 487.5	215.23 291.68	1.59 1.67	0.43 - 0.71 -	2.75 2.63
061	Greater Victoria	367	10,869.5	0.91	59	1,707.5	1,707.14	1.00	0.71 -	1.29
062	Sooke	91	2,862.5	0.82 0.79 *	14 8	490.0	543.31	0.90	0.38 - 0.18 -	1.43
063 064	Saanich Gulf Islands	74 24	2,240.0 660.0	0.79 * 1.03	2	270.0 55.0	405.60 97.70	0.67 0.56	0.18 - 0.00 -	1.15 1.34
065	Cowichan	116	3,854.5	1.40 *	19	452.5	404.16	1.12	0.50 -	1.74
066 067	Lake Cowichan Ladysmith	10 39	305.0 1,392.5	0.97 1.71 *	35	142.0 142.5	47.04 119.63	3.02 1.19	0.00 - 0.00 -	6.80 2.56
068	Nanaimo	163	5,286.5	1.03	27	817.5	751.64	1.09	0.64 -	1.53
069 070	Qualicum Alberni	67 97	2,112.5 2,987.0	1.17 1.88 *	6 10	150.0 325.0	267.94 226.57	0.56 1.43	0.01 - 0.49 -	1.11 2.38
071	Courtenay	110	3,140.0	1.05	17	532.5	437.29	1.22	0.54 -	1.89
072 075	Campbell River Mission	120 93	3,460.0 3,097.5	1.63 * 1.34 *	22	650.0 602.5	304.42 340.58	2.14 * 1.77	1.16 - 0.85 -	3.11 2.69
076	Agassiz - Harrison	24	940.0	2.19 *	6	210.0	63.45	3.31	0.36 -	6.25
077 078	Summerland Enderby	17 20	572.5 625.0	1.16 1.73	6	130.0 77.5	70.05 51.56	1.86 1.50	0.15 - 0.00 -	3.57 3.61
080	Kitimat	27	672.5	1.17	2	50.0	78.81	0.63	0.00 -	1.52
081 083	Fort Nelson Central Coast	18 6	690.0 220.0	1.76 2.59	5	257.5	54.14 11.60	4.76	0.51 -	9.00
084	Vancouver Island West	11	337.5	2.76	-	-	17.83	-		-
085 087	Vancouver Island North Stikine	51 4	1,769.5 100.0	2.62 * 1.89	13	482.0	93.84 7.00	5.14 *	2.04 -	8.23
088	Terrace	47	1,644.5	1.54 *	14	420.0	155.01	- 2.71 *	1.20 -	4.22
092 094	Nisga'a Telegraph Creek	13 6	547.5 290.0	5.12 * 7.24 *	1 2	57.5 35.0	14.76 5.71	3.89 6.13	0.00 - 0.00 -	11.53 14.96
161	Telegraph Creek Vancouver - City Centre	207	290.0 5,992.5	0.75 *	30	35.0 970.0	5.71 1,155.19	0.13	0.52 -	14.96
162	Vancouver - Downtown Eastside Vancouver - North East	312	8,955.0	2.39 * 0.70 *	46 13	1,199.5	624.75	1.92 * 0.53 *	1.31 -	2.53 0.85
163 164	Vancouver - Westside	119 121	4,047.5 3,464.5	0.46 *	13	442.5 422.5	838.12 1,101.20	0.38 *	0.17 -	0.85
165	Vancouver - Midtown	114	3,492.0	0.69 *	11	322.5	755.95	0.43 *	0.14 -	0.71
166 201	Vancouver - South Surrey	123 598	4,214.0 19,635.0	0.57 * 0.95	18 86	645.0 2,725.0	1,052.60 3,067.82	0.61 * 0.89	0.31 - 0.68 -	0.92 1.09
202	South Surrey/White Rock	86	3,009.5	0.80 *	18	465.0	540.68	0.86	0.41 -	1.31
	PROVINCIAL TOTAL Notes for this table follow the	-	234,243.5	1.00	1,122	34,443.0	34,443.00	1.00	0.93 -	1.07

Notes for this table follow the map.



Medically Treatable Diseases

A list of causes has been identified where death could potentially have been avoided through appropriate and timely medical intervention and treatment. It should be noted that the causes are considered to have been amenable to medical treatment only if the death occurred to persons within specific age ranges. Please see the footnote on Table 37 for a list of the causes and ages included in this category.

There were only 142 deaths due to medically treatable diseases in 2010, which represents about 0.5 percent of all deaths in the province.

Table 37 indicates the number and percent of all Medically Treatable Disease (MTD) deaths by cause for 2010 and the five-year period 2005-2009. Bacterial Infections accounted for most of the deaths due to MTDs in 2010 and the previous five years. In 2010, two cause categories, Hypertension and Hypertensive Diseases, and Pneumonia and Unqualified Bronchitis, accounted for 30.3 percent male deaths due to MTDs and for females, 46.6 percent.

Table 38 shows the count of deaths due to MTDs organized by the LHA in which the decedent lived. For the current year (2010) the table shows the actual number of deaths observed in the LHA and the expected deaths (calculated using the 2010 age-specific death rates for MTD).

There were 12 LHAs that had no deaths due to these conditions in 2005-2009 and 44 in 2010 as shown in Table 38. Further, there were only 7 LHAs in 2005-2009 that showed differences between observed and expected deaths that were statistically significant based on five or more deaths, and only 2 LHAs with five or more deaths had statistically significant and high ratios in 2010.

Figure 42 shows the province divided up into its eighty-nine LHAs, with each area indicated as to whether its SMR for deaths due to MTDs was high or low on a quintile scale: dark red indicates the highest SMRs and dark grey indicates the lowest. As might be expected from a table containing such low counts, this map shows no obvious geographic pattern of location of the quintiles.

TABLE 37

DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER

British Columbia, 2005-2009 and 2010

				2010					
		2005-	-2009	Ma	ıle	Ferr	nale	To	tal
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Bacterial Infections	A00-A05,, M871	269	31.9	24	31.6	12	18.2	36	25.4
Pneumonia and unqualified bronchitis	J12-J181, J188, J189, J40	187	22.2	15	19.7	12	18.2	27	19.0
Hypertension and hypertensive diseases	110-115	139	16.5	22	28.9	6	9.1	28	19.7
Malignant neoplasm of cervix	C53	123	14.6	-	-	25	37.9	25	17.6
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	K35-K37, K40-K46, K80, K81	38	4.5	11	14.5	3	4.5	14	9.9
Asthma	J45-J46	28	3.3	1	1.3	3	4.5	4	2.8
Acute respiratory infections and influenza	J00-J06, J09-J11, J20-J22	24	2.9	-	-	-	-	-	-
Tuberculosis	A15-A19, B90	21	2.5	1	1.3	2	3.0	3	2.1
Hodgkin's disease	C81	7	0.8	2	2.6	-	-	2	1.4
Chronic rheumatic heart disease	105-109	6	0.7	-	-	3	4.5	3	2.1
Nutritional anemias	D50-D53	-	-	-	-	-	-	-	-
TOTAL		842	100.0	76	100.0	66	100.0	142	100.0

Note: Medically Treatable Diseases (MTDs) based on Charlton's definition (see Glossary).

*ICD-10 codes A00-A05, A20-A49, B95-B96, G00, H66, H70, H95.0-H95.1, I00-I01, I02.0, I02.9, L01-L08, M00, M02.8-M02.9, M46.2, M86, M87.1.

Deaths due to MTDs exclude all deaths less than age 5 years old.

Deaths due to MTDs also exclude

- deaths aged 65 or more from hypertensive disease.

- deaths aged 50 or more from pneumonia and unqualified bronchitis.

- deaths aged 65 or more from cervical cancer.

- deaths aged 65 or more from tuberculosis.

- deaths aged 50 or more from asthma.

- deaths aged 45 or more from chronic rheumatic heart disease.

- deaths aged 50 or more from acute respiratory infections and influenza.

- deaths aged 65 or more from bacterial infections.

- deaths aged 35 or more from Hodgkin's disease.

- deaths aged 65 or more from abdominal hernias, cholecystitis and cholelithiasis, appendicitis.

- deaths aged 65 or more from deficiency nutritional anemias.

Total percentage may not add up to 100 due to rounding.

The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as

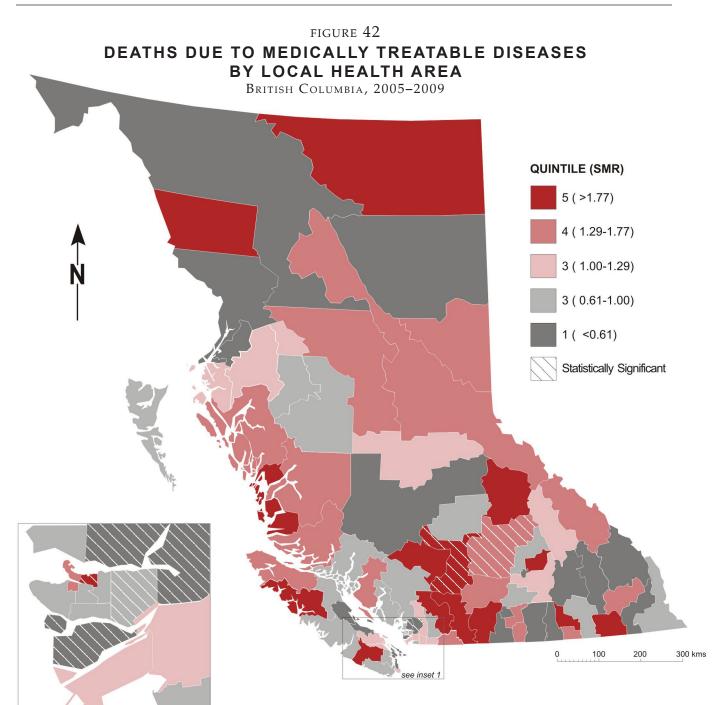
pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

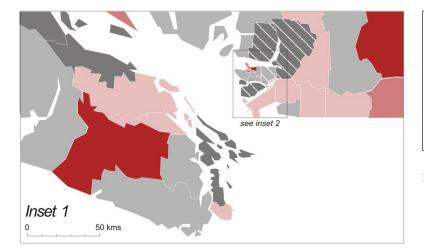
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STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA DEATHS DUE TO MEDICALLY TREATABLE DISEASES, BRITISH COLUMBIA, 2005-2009 AND 2010

		2005	-2009			2010		
1	Lealth Assa	Observed	0145 ()	Observed	Expected		95% Confide	
	lealth Area	Deaths	SMR (p)	Deaths	Deaths	SMR (p)	Lower	Upper
001 002	Fernie Cranbrook	2 3	0.65 0.60	2	0.52 0.83	- 2.41	0.27	
003	Kimberley	3	1.72	1	0.29	3.44		- 19.13
004 005	Windermere Creston	- 5	- 2.11	-	0.37 0.38	-	-	
005	Kootenay Lake	- 5	-	-	0.38	-	-	
007	Nelson	5	0.99	-	0.85	-	-	
009	Castlegar	6	2.28	-	0.44	-	-	
010 011	Arrow Lakes Trail	- 6	1.56	-	0.17 0.65	-	-	
012	Grand Forks	-	-	1	0.28	3.53	0.05	- 19.64
013	Kettle Valley	-	-	-	0.14	-	-	
014 015	Southern Okanagan Penticton	5 11	1.31 1.42	- 5	0.60 1.30	- 3.85 *	- 1.24	- 8.98
016	Keremeos	-	-	-	0.17	-		
017	Princeton	2	1.78	-	0.20	-	-	
018 019	Golden Revelstoke	2 2	1.37 1.24	-	0.25 0.27	-	-	
019	Salmon Arm	6	0.87	1	1.15	0.87	0.01	- 4.83
021	Armstrong - Spallumcheen	-	-	-	0.30	-	-	
022 023	Vernon	16 33	1.27 0.99	3 4	2.10 5.77	1.43		- 4.17 - 1.77
023	Central Okanagan Kamloops	32	1.49 *	4 3	3.53	0.69 0.85		- 1.77 - 2.48
025	100 Mile House	2	0.62	-	0.51	-		
026	North Thompson	2	2.20	-	0.14	-	-	
027 028	Cariboo - Chilcotin Quesnel	3 5	0.56 1.06	2 2	0.87 0.78	2.29 2.57	0.20	- 8.25 - 9.26
029	Lillooet	3	3.46	-	0.14	-	-	
030	South Cariboo	5	3.32 *	1	0.24	4.14	0.05	- 23.02
031 032	Merritt Hope	4	1.75 2.45	- 4	0.36 0.26	- 15.44 +	- 4.16	- 39.54
032	Chilliwack	20	1.37	2	2.47	0.81		- 39.54 - 2.92
034	Abbotsford	23	1.00	2	3.86	0.52		- 1.87
035 037	Langley Delta	27 23	1.14 1.14	4 3	3.84 3.11	1.04 0.96	0.20	- 2.66 - 2.82
037	Richmond	16	0.43 *	5	6.25	0.80		- 2.02 - 1.87
040	New Westminster	13	1.04	2	2.17	0.92	0.10	- 3.33
041	Burnaby Manla Didae	26	0.64 *	9	7.04	1.28	0.00	- 2.43
042 043	Maple Ridge Coquitlam	19 24	1.10 0.58 *	3 6	2.95 7.29	1.02 0.82		- 2.97 - 1.79
044	North Vancouver	16	0.59 *	1	4.70	0.21		- 1.18
045	West Vancouver-Bowen Island	8	0.78	1	1.73	0.58	0.01	- 3.22
046 047	Sunshine Coast Powell River	5 6	0.79 1.44	2 1	1.09 0.68	1.83 1.48	0.21	- 6.60 - 8.22
047	Howe Sound	5	0.80	-	1.11	-		- 0.22
049	Bella Coola Valley	1	1.74	-	0.09	-	-	
050	Queen Charlotte	1	0.98	-	0.16	-	-	
051 052	Snow Country Prince Rupert	- 3	1.05	-	0.02 0.46	-	-	
053	Upper Skeena	1	1.01	-	0.16	-	-	
054	Smithers	2	0.65	1	0.50	1.98	0.03	- 11.03
055 056	Burns Lake Nechako	1	0.66	-	0.25 0.45	-	-	
057	Prince George	28	1.49	6	3.12	1.93	0.70	- 4.19
059	Peace River South	8	1.57	-	0.86	-	-	
060 061	Peace River North Greater Victoria	3 43	0.52	- 6	0.98 7.00	0.86		- 1.87
062	Sooke	12	0.93	5	2.26	2.21	0.71	- 5.15
063	Saanich	6	0.46	-	2.13	-		
064 065	Gulf Islands Cowichan	- 7	- 0.64	- 1	0.61 1.84	- 0.54	- 0.01	
065	Lake Cowichan	4	3.04	-	0.23	-	-	
067	Ladysmith	4	1.04	-	0.66	-	-	
068 069	Nanaimo Qualicum	23 5	1.16 0.53	6	3.37 1.54	1.78	0.65	- 3.87
069	Alberni	5 6	0.53	- 3	1.54	2.96	0.59	- 8.64
071	Courtenay	7	0.55	1	2.16	0.46		- 2.58
072	Campbell River	6	0.69	-	1.42	-	-	
075 076	Mission Agassiz - Harrison	6 3	0.77 1.78	2 2	1.33 0.28	1.51 7.25		- 5.45 - 26.16
070	Summerland	-	-	-	0.28	-		- 20.10
078	Enderby	3	1.99	-	0.25	-		
080 081	Kitimat Fort Nelson	3 3	1.39 2.68	1	0.35 0.19	2.83	0.04	- 15.73
081	Central Coast	3	2.68 7.90	-	0.19	-	-	
084	Vancouver Island West	1	1.84	-	0.09	-	-	
085	Vancouver Island North	4	1.54	-	0.42	-		
087 088	Stikine Terrace	- 5	1.28	- 1	0.04 0.64	- 1.57	0.02	- 8.73
092	Nisga'a	-	-	-	0.04	-		
094	Telegraph Creek	1	8.48	-	0.02	-		
161 162	Vancouver - City Centre Vancouver - Dwtn Eastside	31 53	1.37 4.33 *	2 7	3.64 2.43	0.55 2.88 *		- 1.98 - 5.93
162	Vancouver - Dwth Eastside Vancouver - North East	53 17	0.90	1	3.25	0.31		- 5.93 - 1.71
164	Vancouver - Westside	18	0.72	1	4.11	0.24	0.00	- 1.36
165	Vancouver - Midtown	12	0.74	4	2.88	1.39		- 3.55
166 201	Vancouver - South Surrey	17 75	0.68 1.13	2 14	4.26 11.14	0.47 1.26		- 1.70 - 2.11
202	South Surrey/White Rock	13	0.80	5	2.62	1.91	0.62	- 4.45
	PROVINCIAL TOTAL	842	1.00	142	142.00	1.00	0.84	- 1.18
	Notes for this table follow	the man						

Notes for this table follow the map.





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Notes to Table 38

Medically Treatable Diseases based on Charlton's definition (see glossary -Medically Treatable Diseases). *Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). +Denotes significance based on less than five deaths. SMR - Standardized Mortality Ratio. Total includes residents with unknown LHA.

Note: Refer to Figure 1 to clarify geographical location of LHAs.

Alcohol-Related Deaths

Alcohol-related deaths provide information on deaths due to alcohol (directly related) as well as those where alcohol was a contributing factor (indirectly related). Alcohol-related and drug overdose deaths are the only cause of death categories in this publication that are not based entirely upon the underlying causes of death. See the Glossary for a further explanation of alcohol-related deaths and Table 39 for the list of causes used for deaths directly due to alcohol.

Table 39 shows the number and percent of deaths that were directly and indirectly related to alcohol in 2010 and in the five preceding years, while Figure 43 graphically shows the pattern of alcohol-related deaths by cause. About 22.4 percent of the 1,832 deaths related to alcohol in 2010 were directly attributable to alcohol (410 deaths). Alcohol was a contributing factor in the remaining 77.6 percent of these deaths. The table indicates that most of the deaths directly attributable to alcohol were caused by liver disease (15.5 percent) in 2010.

Table 40 shows numbers and percentages of alcohol-related deaths by age group for males, females, and the total population. All alcohol-related deaths, whether directly or indirectly related to alcohol, are included in this table.

Alcohol-related deaths constitute 5.9 percent of all deaths in 2010 and 8.8 percent of all male deaths. Males died of such causes 3.3 times more frequently than women in 2010.

Alcohol-related deaths for seniors (65 or older) accounted for 45.5 percent of deaths; 39.0 percent were people between the ages of 45 and 64.

The numbers of deaths directly and indirectly related to alcohol are shown for the LHAs in Table 41.

There were 23 LHAs with at least five deaths where the observed values were statistically significant and above the expected values in both 2005-2009 and 2010 as shown in Table 41. There were 15 LHAs with SMRs that were statistically significant and low in both time periods. The map in Figure 44 shows the SMR quintiles and statistical significance patterns in each LHA during 2005-2009.

Many alcohol related deaths are referred to the BC Coroner Service for investigation. As with external causes of death, the medical coding will be incomplete until the coroner closes the investigation. For this reason the counts are often lower in the current year and are adjusted upwards in later annual reports.

TABLE 39 ALCOHOL-RELATED DEATHS BY CAUSE

British Columbia, 2005–2009 and 2010

			Year of De		
		2005-	-2009	20	
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent
Directly Related to Alcohol					
Alcohol intoxication	F100	140	1.4	18	1.0
Alcoholic psychoses and dependence	F101-F109	507	5.0	71	3.9
Alcoholic neurological disorders	G312, G621, G721	-	-	1	0.1
Alcoholic cardiomyopathy	1426	90	0.9	13	0.7
Alcoholic gastritis	K292	14	0.1	1	0.1
Alcoholic liver disease	K70	1,222	12.1	284	15.5
Alcohol induced chronic pancreatitis	K860	7	0.1	1	0.1
Alcohol poisoning	X45, X65	107	1.1	21	1.1
Other alcohol causes	E244, O354, O993, P043, Q860, R780, T510-T512, T519	-	-	-	-
Subtotal		2,087	20.7	410	22.4
Indirectly Related to Alcohol ¹					
Certain infectious and parasitic diseases	A00-B99,G14	313	3.1	48	2.6
Neoplasms	C00-D48	1,201	11.9	252	13.8
Endocrine/Nutritional/Metabolic	E00-E243, E248-E89	274	2.7	55	3.0
Mental disorders	F00-F09, F11-F99	129	1.3	21	1.1
Neurological diseases G620, G622-G720, G722-G99	G00-G311, G318-	112	1.1	25	1.4
Circulatory	100-1425, 1427-199	1,963	19.5	336	18.3
Diseases of the respiratory system	J00-J98	706	7.0	116	6.3
Digestive system diseases	K00-K291, K293-K69,	519	5.1	80	4.4
Urinary system diseases	N00-N39, N990, N991, N995	93	0.9	12	0.7
Unintentional injury	V01-X44, X46-X59, Y40-Y86, Y88	1,624	16.1	237	12.9
Suicide	X60-X64, X66-X84, Y87	505	5.0	105	5.7
Homicide	X85-Y09, Y871	52	0.5	-	-
All other causes		504	5.0	135	7.4
Subtotal		7,995	79.3	1,422	77.6
TOTAL		10,082	100.0	1,832	100.0

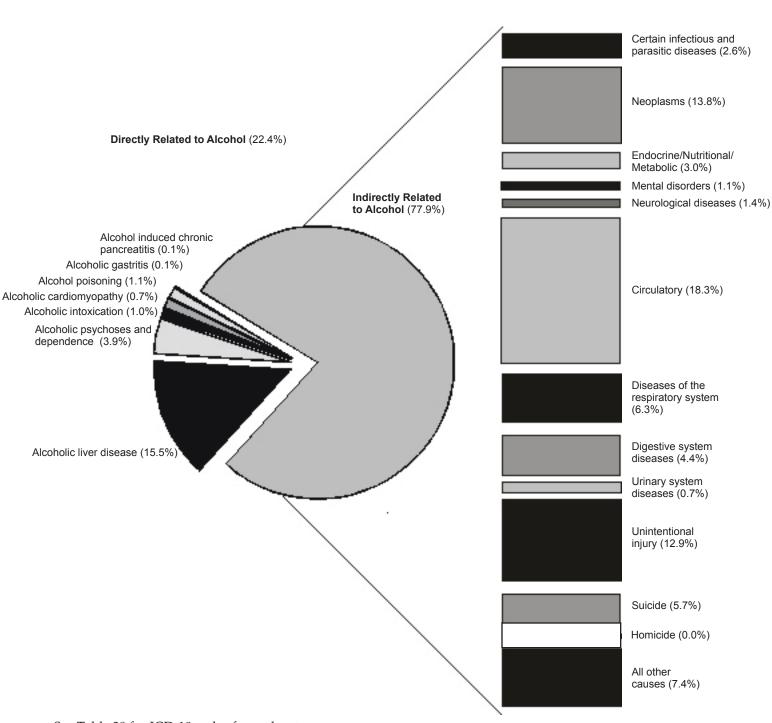
Note: ¹ICD-10 codes for indirectly related to alcohol exclude the codes for directly related to alcohol and will not match the list of codes used for these categories in other tables.

Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

In 2008, the BC Coroners Service and BC Vital Statistics Agency engaged in a retrospective review of death registrations of alcoholrelated fatalities. As a result of the project, a number of registrations were amended and are reflected in this report.

FIGURE 43 ALCOHOL-RELATED DEATHS BY CAUSE BRITISH COLUMBIA, 2010



See Table 39 for ICD-10 codes for each category.

TABLE 40 ALCOHOL-RELATED DEATHS BY AGE AND GENDER BRITISH COLUMBIA, 2010

	M	Male		nale	Total		
Age	Number	Percent	Number	Percent	Number	Percent	
<15	1	0.1	-	-	1	0.1	
15-19	7	0.5	8	1.9	15	0.8	
20-24	28	2.0	10	2.3	38	2.1	
25-44	174	12.4	55	12.8	229	12.5	
45-64	573	40.9	142	32.9	715	39.0	
65-84	539	38.5	161	37.4	700	38.2	
85+	79	5.6	55	12.8	134	7.3	
TOTAL	1,401	100.0	431	100.0	1,832	100.0	

Note: Alcohol-related deaths - see Table 39 for ICD-10 codes and Glossary for more details.

Total percentage may not add up to 100 due to rounding. Non-residents are excluded. Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available.

Currently produced data should not be used in combination with data produced prior to 2000.

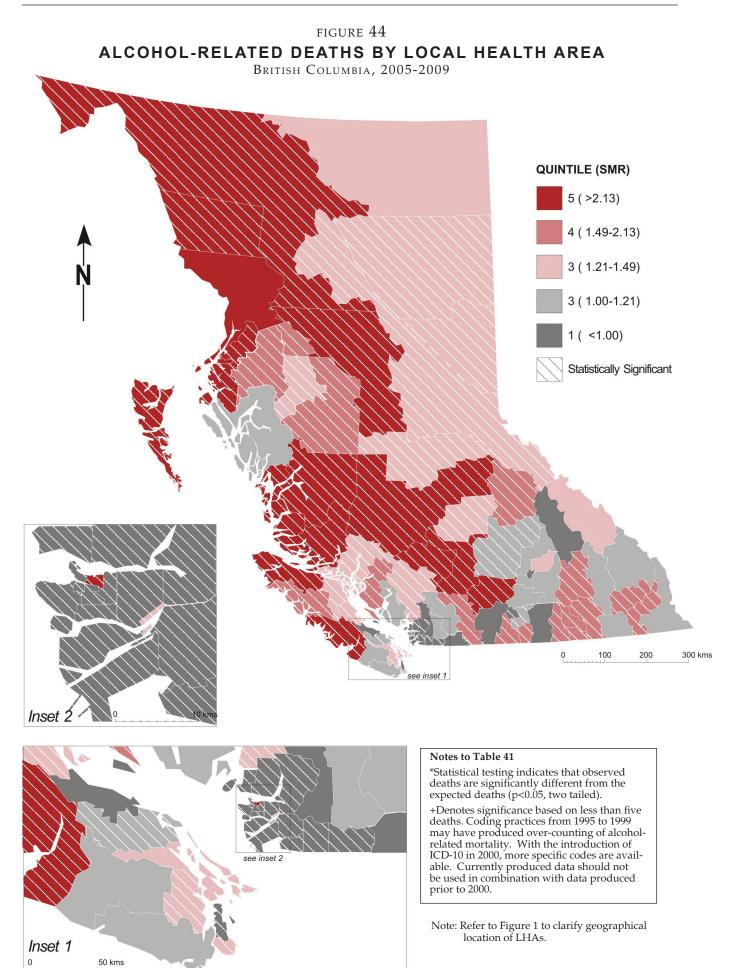


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STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA ALCOHOL-RELATED DEATHS, BRITISH COLUMBIA, 2005-2009 AND 2010

06		2005	-2009	<u> </u>		2010		
		Observed		Observed	Expected		95% Confide	
	Health Area	Deaths	SMR (p)	Deaths	Deaths	SMR (p)	Lower	Upper
001 002	Fernie	37 93	1.12 1.51 *	5 16	5.98 11.10	0.84 1.44	0.27 - 0.82 -	
002	Cranbrook Kimberley	35	1.49 *	8	4.18	1.91	0.82 - 0.82 -	
003	Windermere	29	1.17	4	4.49	0.89	0.24 -	
005	Creston	41	1.08	3	6.65	0.45	0.09 -	
006	Kootenay Lake	12	1.10	3	1.94	1.55	0.31 -	4.51
007	Nelson	92	1.54 *	12	10.69	1.12	0.58 -	
009	Castlegar	50	1.50 *	8	6.04	1.32	0.57 -	
010	Arrow Lakes	26	1.82 *	2	2.52	0.79	0.09 -	2.01
011	Trail	100	1.92 * 1.57 *	17	9.13	1.86 *	1.08 -	
012 013	Grand Forks	43 11	1.57 * 0.99	3 2	4.81 2.02	0.62 0.99	0.13 - 0.11 -	
013	Kettle Valley Southern Okanagan	115	1.71 *	10	11.72	0.85	0.11 - 0.41 -	
014	Penticton	146	1.19 *	24	21.43	1.12	0.72 -	
016	Keremeos	31	1.76 *	8	3.10	2.58 *	1.11 -	
017	Princeton	15	0.89	1	3.11	0.32	0.00 -	
018	Golden	19	1.22	5	2.79	1.79	0.58 -	4.18
019	Revelstoke	18	0.98	2	3.25	0.61	0.07 -	
020	Salmon Arm	111	1.13	19	17.67	1.08	0.65 -	
021	Armstrong - Spallumcheen	19	0.76	3	4.57	0.66	0.13 -	
022	Vernon	174	1.02	30	30.63	0.98	0.66 -	
023	Central Okanagan	457	1.02 1.20 *	80 56	81.27	0.98	0.78 -	
024 025	Kamloops 100 Mile House	314 57	1.20 * 1.34 *	56 11	47.02 7.61	1.19 1.44	0.90 - 0.72 -	1.55 2.59
025	North Thompson	23	2.09 *	3	1.97	1.52	0.31 -	
020	Cariboo - Chilcotin	140	2.34 *	22	10.79	2.04 *	1.28 -	
028	Quesnel	81	1.46 *	22	10.00	2.20 *	1.38 -	
029	Lillooet	34	3.23 *	7	1.89	3.71 *	1.49 -	
030	South Cariboo	52	2.54 *	10	3.68	2.72 *	1.30 -	0.00
031	Merritt	64	2.23 *	4	5.03	0.79	0.21 -	
032	Hope	46	1.96 *	10	4.12	2.43 *	1.16 -	
033	Chilliwack	171	0.90	25	34.92	0.72	0.46 -	
034	Abbotsford	215	0.77 * 0.85 *	25	49.88	0.50 * 0.68 *	0.32 -	••••
035 037	Langley Delta	232 157	0.85 * 0.68 *	36 29	52.58 43.56	0.68 *	0.48 - 0.45 -	
038	Richmond	159	0.38 *	28	73.78	0.38 *	0.45 -	
040	New Westminster	197	1.42 *	20	25.17	0.83	0.52 -	
041	Burnaby	343	0.72 *	57	84.88	0.67 *	0.51 -	
042	Maple Ridge	157	0.86	36	33.49	1.07	0.75 -	1.49
043	Coquitlam	256	0.61 *	35	77.55	0.45 *	0.31 -	0.63
044	North Vancouver	166	0.54 *	38	55.47	0.69 *	0.48 -	
045	West Vancouver-Bowen Is.	74	0.50 *	14	25.46	0.55 *	0.30 -	
046	Sunshine Coast	85	0.99	18	15.76	1.14	0.68 -	
047	Powell River	92	1.62 *	19	10.15	1.87 *	1.13 -	
048 049	Howe Sound Bella Coola Valley	78 33	1.33 * 5.00 *	13 2	11.16 1.16	1.16 1.73	0.62 - 0.19 -	
049	Queen Charlotte	40	3.80 *	7	1.83	3.83 *	1.53 -	
051	Snow Country	3	2.20	-	0.23	-		
052	Prince Rupert	71	2.32 *	12	5.40	2.22 *	1.15 -	3.88
053	Upper Skeena	19	1.76 *	7	1.89	3.71 *	1.49 -	
054	Smithers	47	1.44 *	5	5.97	0.84	0.27 -	
055	Burns Lake	34	1.93 *	7	3.09	2.27	0.91 -	
056	Nechako	71	2.24 *	12	5.65	2.13 *	1.10 -	•
057	Prince George	281	1.43 * 1.44 *	65	35.38	1.04	1.42 -	2.34
059 060	Peace River South Peace River North	81 81	1.44 * 1.44 *	21 19	10.01 10.25	2.10 * 1.85 *	1.30 - 1.12 -	0.21
060	Greater Victoria	675	1.44	135	93.78	1.44 *	1.12 -	
062	Sooke	137	1.03	27	25.35	1.06	0.70 -	
063	Saanich	143	0.73 *	21	34.51	0.61 *	0.38 -	
064	Gulf Islands	64	1.25	10	9.19	1.09	0.52 -	2.00
065	Cowichan	180	1.26 *	50	25.85	1.93 *	1.44 -	
066	Lake Cowichan	18	1.10	9	2.96	3.04 *	1.39 -	
067	Ladysmith	68	1.27 1 14 *	12	9.87	1.22	0.63 -	
068 069	Nanaimo Qualicum	296 144	1.14 * 0.94	73 32	47.17 27.81	1.55 * 1.15	1.21 - 0.79 -	
070	Alberni	175	2.18 *	35	14.29	2.45 *	1.71 -	
071	Courtenay	228	1.37 *	31	30.78	1.01	0.68 -	
072	Campbell River	146	1.46 *	31	18.34	1.69 *	1.15 -	
075	Mission	89	1.05	13	15.30	0.85	0.45 -	
076	Agassiz - Harrison	26	1.11	6	4.09	1.47	0.54 -	3.19
077	Summerland	24	0.66 *	9	6.30	1.43	0.65 -	
078	Enderby	29	1.40	4	3.79	1.06	0.28 -	
080	Kitimat	28	1.20	7	4.13	1.70	0.68 -	
081 083	Fort Nelson Central Coast	14 20	1.49 7.33 *	5 1	1.68 0.48	2.98 2.07	0.96 - 0.03 -	
083	Vancouver Island West	12	7.33 * 1.99 *		0.48 1.04	2.07	0.03 -	11.54
085	Vancouver Island North	77	2.90 *	19	4.77	3.98 *	2.40 -	6.22
087	Stikine	11	4.46 *	-	0.42	-		
088	Terrace	84	1.98 *	17	7.68	2.21 *	1.29 -	3.54
092	Nisga'a	14	3.79 *	-	0.67	-		-
094	Telegraph Creek	6	4.77 *	3	0.22	13.74 +	2.76 -	
161	Vancouver - City Centre	180	0.77 *	27	41.91	0.64 *	0.42 -	0.0 .
162	Vancouver - Downtown E.side		2.32 *	52	27.76	1.87 *	1.40 -	
163	Vancouver - North East	116	0.51 *	23	39.89	0.58 *	0.37 -	
164	Vancouver - Westside	124	0.44 *	24	48.25	0.50 * 0.41 *	0.32 -	
165 166	Vancouver - Midtown Vancouver - South	130 148	0.74 * 0.49 *	13 26	31.98 52.20	0.41 * 0.50 *	0.22 - 0.33 -	
201	Surrey	565	0.49 *	123	138.31	0.89	0.33 -	
202	South Surrey/White Rock	136	0.58 *	28	45.36	0.62 *	0.41 -	
							** * *	

Notes for this table follow the map (Figure 44).



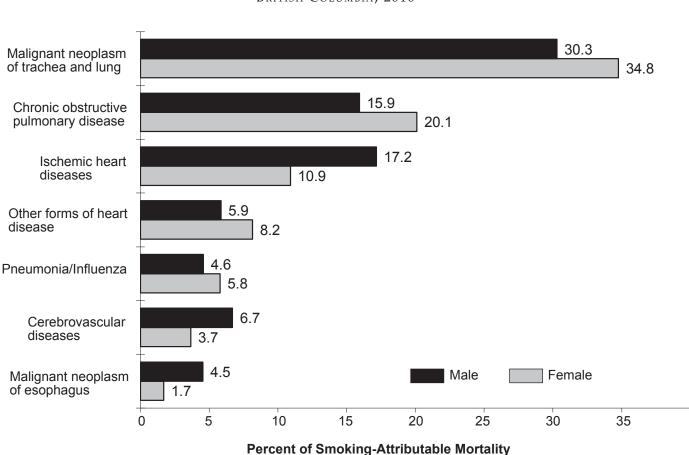
Smoking-Attributable Deaths

Table 42 and Figure 45 portray the number and percent of deaths in 2010 that were attributable to smoking for those aged 35 years and older. The age restriction relates to the fact that smoking-attributable conditions generally become apparent over time and after several years of tobacco use. Because the decedent's smoking history is usually not available on the death record, the link between smoking and mortality is estimated indirectly. Research-derived proportions of deaths from certain diseases (like lung cancer) that are due to smoking are used to estimate the number of smoking-attributable deaths due to those diseases. See the Glossary entry on Smoking-Attributable Mortality (SAM) for details and the Methodology section for the calculation formulae for these indicators.

Figure 45 shows the smoking-attributable portion of each of seven cause-of-death categories selected according to highest SAM number from Table 42.

Table 42 shows the number of deaths by causes and the count and percentage of those deaths that are attributed to smoking. Also shown is the percentage of total SAM by cause category.

In 2010, there were 6,071 deaths attributed to smoking as shown in Table 42. By far the largest disease category was malignant neoplasms of trachea and lung (32.1 percent) followed by chronic obstructive pulmonary disease (17.7 percent) and ischemic heart disease (14.6 percent).



BY SELECTED CAUSES AND GENDER BRITISH COLUMBIA, 2010

FIGURE 45 SMOKING-ATTRIBUTABLE MORTALITY

Note: Ischemic heart disease includes 35-64 years and 65+ years. Cerebrovascular disease includes 35-64 years and 65+ years.

TABLE 42 SMOKING-ATTRIBUTABLE MORTALITY

BRITISH COLUMBIA, 2010

			Ma	ale			Fen	nale			Total	
				SA				SA			SA SA	
Cause of Death	ICD-10 Code(s)	Deaths	SAM (%)	Number	Percent	Deaths	SAM (%)	Number	Percent	Deaths	Number	Percent
Malignant Neoplasms												
Malignant neoplasms of lip oral cavity and pharynx	o, C00-C14	94	91.2	86	2.4	44	59.9	26	1.0	138	112	1.8
Malignant neoplasm of esophagus	C15	207	78.2	162	4.5	60	71.0	43	1.7	267	204	3.4
Malignant neoplasm of pancreas	C25	281	21.7	61	1.7	252	33.9	85	3.4	533	146	2.4
Malignant neoplasm of larynx	C32	27	79.7	22	0.6	7	87.2	6	0.2	34	28	0.5
Malignant neoplasm of trachea and lung	C33-C34	1,207	89.3	1,078	30.3	1,142	76.5	874	34.8	2,349	1,951	32.1
Malignant neoplasms of cervix, uterus	C53-C55	-	-	-	-	171	33.9	58	2.3	171	58	1.0
Malignant neoplasm of bladder	C67	204	44.8	91	2.6	77	37.6	29	1.2	281	120	2.0
Malignant neoplasm of kidney and other unspecified urinary orga	C64-C66, C68	134	46.8	63	1.8	72	12.4	9	0.4	206	72	1.2
SUBTOTAL		2,154		1,562	43.9	1,825		1,130	45.0	3,979	2,692	44.3
Circulatory System Diseas	ses			,		,		,		-,	,	
Hypertension Ischemic heart diseases :	10- 13 20- 25	146	24.6	36	1.0	240	16.4	39	1.6	386	75	1
35-64 years		490	43.2	212	5.9	96	36.5	35	1.4	586	247	4.1
65+ years		1,891	21.1	399	11.2	1,639	14.6	239	9.5	3,530	638	10.5
Other forms of heart disease Cerebrovascular diseases	101-109, 127 130-152 : 160-169	, 787	26.5	209	5.9	1,057	19.4	205	8.2	1,844	414	6.8
35-64 years		106	44.8	47	1.3	67	49.3	33	1.3	173	81	1.3
65+ years		816	23.4	191	5.4	1,230	4.8	59	2.3	2,046	250	4.1
Atherosclerosis	170	21	55.5	12	0.3	54	31.7	17	0.7	75	29	0.5
Aortic aneurysm	171	102	55.5	57	1.6	66	31.7	21	0.8	168	78	1.3
Other arterial diseases	126, 128, 172-178	92	55.5	51	1.4	113	31.7	36	1.4	205	87	1.4
SUBTOTAL		4,451		1,213	34.1	4,562		685	27.2	9,013	1,898	31.3
Respiratory System Disea		400	007	100	4.0	554	00.0	4.40	5.0	4 050	000	F 4
Pneumonia/Influenza	J09-J181, J188, J189	499	32.7	163	4.6	554	26.3	146	5.8	1,053	309	5.1
Bronchitis, emphysema	J40-J43	56	84.7	47	1.3	52	79.2	41	1.6	108	89	1.5
Chronic obstructive pulmonary disease	J44	669	84.7	567	15.9	638	79.2	505	20.1	1,307	1,072	17.7
Other respiratory diseases	A15-A19, J45-J46	18	32.7	6	0.2	23	26.3	6	0.2	41	12	0.2
SUBTOTAL TOTAL		1,242 7,847		783 3,558	22.0 100.0	1,267 7,654		698 2,513		2,509 15,501	1,481 6,071	24.4 100.0

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category. SAM – Smoking-Attributable Mortality, derived by multiplying the SAM(%) by the number of deaths in each category. See glossary under Smoking-Attributable Mortality Percent for a definition of the formula for SAM(%). Total SAM Number may not add up to the sum of Male SAM Number and Female SAM Number due to rounding.

Non-residents are excluded.

The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of

certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

Drug-Induced Deaths

Drug-induced deaths are all deaths directly due to drug use, including use of illicit, prescribed, and over-thecounter drugs. This category excludes causes indirectly related to drug use and also excludes those deaths due to alcohol or smoking. See Table 44 for a list of the drug induced death categories.

Table 43 shows that more males (223) died of drug-induced causes than females (116). Among individuals aged 25 to 64 years, there were 289 drug-induced deaths (85.3 percent), and 155 drug-induced deaths (45.7 percent) in the 45 to 64 year age-group.

Table 44 presents drug-induced deaths by cause for 2005-2009 and 2010. In 2010, 69.3 percent of drug-induced deaths were the result of accidental poisoning by drugs compared to 68.1 percent in the previous five years. Of the 454 suicide deaths in BC in 2010, 16.3 percent were drug-induced.

Figure 46 is a graphic presentation of the results from Table 44. In 2010, almost all drug induced deaths were unintentional poisoning or suicide.

Table 45 shows the number of observed and expected drug-induced deaths and the ratio of observed to expected deaths (SMR) in each LHA in 2010 and in the previous five years. In 2010, 22 LHAs had no drug-induced deaths and 5 had no drug-induced deaths in 2005-2009.

Vancouver - Downtown Eastside was the only LHA where the observed number of deaths was more than 5 and statistically significantly higher than the expected numbers in 2010 as well as the previous five years.

Figure 47 maps the variation of SMRs in the LHAs divided into quintiles for 2005-2009.

	М	ale	Fem	ale	Tot	al
Age	Number	Percent	Number	Percent	Number	Percent
<15	-	-	1	0.9	1	0.3
15-19	3	1.3	2	1.7	5	1.5
20-24	11	4.9	4	3.4	15	4.4
25-44	90	40.4	44	37.9	134	39.5
45-64	102	45.7	53	45.7	155	45.7
65-84	15	6.7	6	5.2	21	6.2
85+	2	0.9	6	5.2	8	2.4
TOTAL	223	100.0	116	100.0	339	100.0

TABLE 43 DRUG-INDUCED DEATHS BY AGE AND GENDER

BRITISH COLUMBIA, 2010

Note: Excludes tobacco and alcohol

Drug-induced deaths – see Table 44 for ICD-10 codes and Glossary for more details. Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

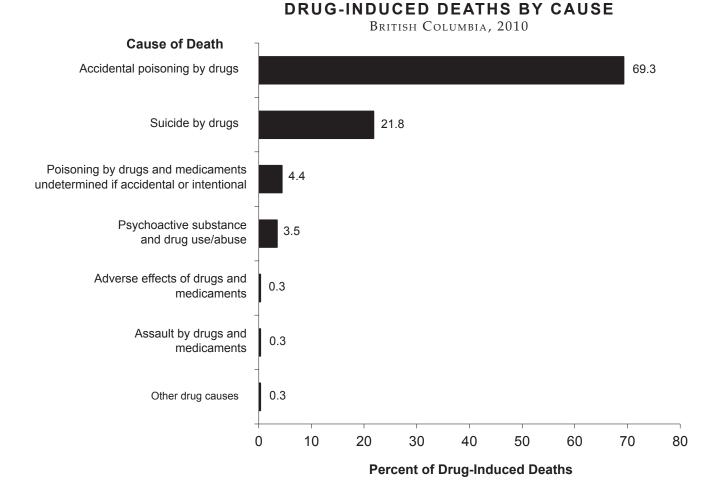
TABLE 44 DRUG-INDUCED DEATHS BY CAUSE

British Columbia, 2005–2009 and 2010

			Year o	f Death	
		2005	-2009	20	10
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent
Psychoactive substance and drug use/abuse	F11-F16, F19	123	5.7	12	3.5
Accidental poisoning by drugs	X40-X44	1,481	68.1	235	69.3
Suicide by drugs	X60-X64	460	21.1	74	21.8
Assault by drugs and medicaments	X85	-	-	1	0.3
Poisoning by drugs and medicaments undetermined if accidental or intention	Y10-Y14 al	83	3.8	15	4.4
Adverse effects of drugs and medicaments	Y40-Y574, Y577-Y579, Y598, Y880	26	1.2	1	0.3
Other drug causes*		2	0.1	1	0.3
TOTAL		2,175	100.0	339	100.0

Note: Excludes tobacco and alcohol. Total percentage may not add to 100 due to rounding. Non-residents are excluded. *ICD-10 codes D521, D590, D592, D611, D642, E032, E064, E231, E242, E273, F55, F551, G210, G211, G240, G251, G254, G256, G444, G620, G720, H263, I427, I952, J702, J703, J704, L105, L233, L244, L251, L270, L271, L432, L560, L561, L640, M022, M102, M320, M804, M814, M835, M871, N140, N141, N142, O355, P040, P041, P044, P584, P961, P962, R781, R782, R783, R784, R785, R786, R825.

FIGURE 46

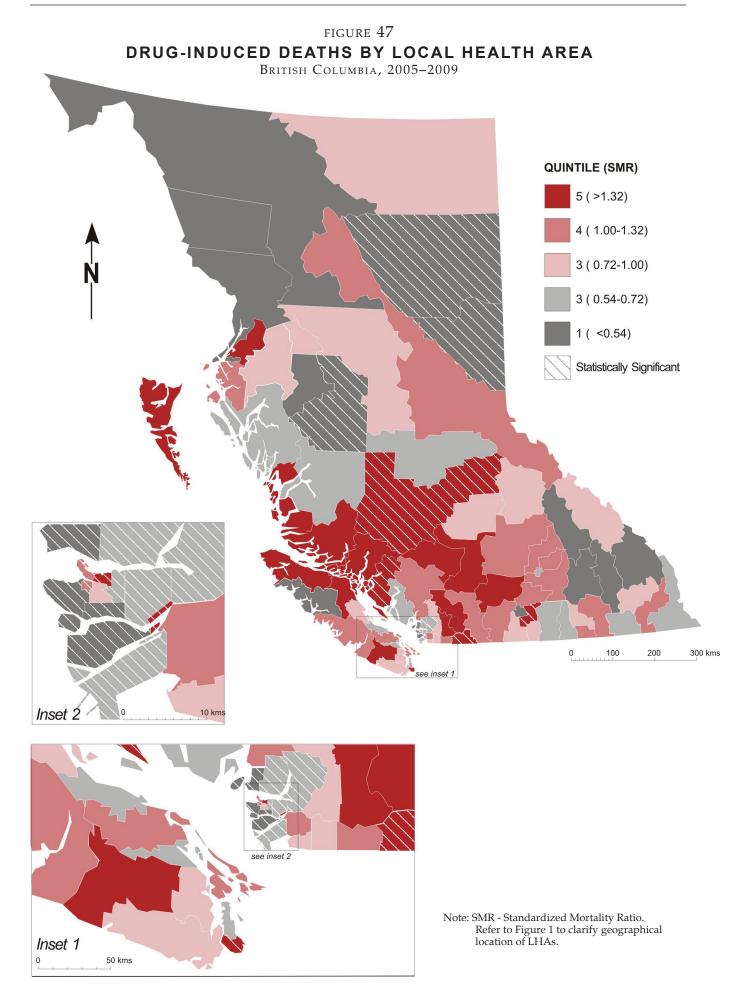


112		2005-	-2009			2010		
		Observed		Observed	Expected		95% Confiden	
Local	Health Area	Deaths	SMR (p)	Deaths	Deaths	SMR (p)	Lower	Upper
001	Fernie	5	0.65	1	1.16	0.86	0.01 -	4.78
002 003	Cranbrook Kimberlev	15 3	1.23 0.72	1 1	1.87 0.65	0.54 1.55	0.01 - 0.02 -	2.98 8.62
004	Windermere	2	0.40	-	0.82	-		-
005 006	Creston Kootenay Lake	3 1	0.54 0.53	1	0.87 0.29	1.15	0.02 -	6.41
007	Nelson	13 6	1.04	-	1.92	-	0.01 -	-
009 010	Castlegar Arrow Lakes	1	0.92 0.43	-	1.02 0.35	0.98	0.01 -	5.48
011 012	Trail Grand Forks	11 3	1.15 0.71	2	1.42 0.63	1.41	0.16 -	5.08
013	Kettle Valley	1	0.55	-	0.28	-		-
014 015	Southern Okanagan Penticton	7 36	0.79 1.84 *	1 2	1.38 3.03	0.73 0.66	0.01 - 0.07 -	4.04 2.39
016	Keremeos	2	0.85	1	0.37	2.72	0.04 -	15.15
017 018	Princeton Golden	3 3	1.22 0.79	-	0.40 0.58	-		-
019 020	Revelstoke Salmon Arm	1 19	0.24 1.17	1 5	0.61 2.53	1.64 1.98	0.02 - 0.64 -	9.13 4.61
021	Armstrong - Spallumcheen	3	0.66	-	0.69	-		4.01
022 023	Vernon Central Okanagan	39 102	1.27 1.20	5 11	4.77 13.70	1.05 0.80	0.34 - 0.40 -	2.44 1.44
024	Kamloops	63	1.18	12	8.19	1.47	0.76 -	2.56
025 026	100 Mile House North Thompson	7 2	0.96 0.94	- 1	1.10 0.31	3.23	0.04 -	17.97
027	Cariboo - Chilcotin	23	1.74 *	1	1.97	0.51	0.01 -	2.82
028 029	Quesnel Lillooet	7 4	0.61 1.85	4 1	1.73 0.32	2.31 3.09	0.62 - 0.04 -	5.91 17.22
030	South Cariboo	8 10	2.28	- 2	0.53	-	0.27 -	-
031 032	Merritt Hope	5	1.79 1.27	2	0.82 0.59	2.44 1.70	0.27 - 0.02 -	8.80 9.43
033 034	Chilliwack Abbotsford	53 67	1.40 * 1.07	4 14	6.06 9.86	0.66 1.42	0.18 - 0.78 -	1.69 2.38
035	Langley	48	0.78	11	9.38	1.17	0.58 -	2.10
037 038	Delta Richmond	31 36	0.63 * 0.38 *	4 9	7.19 14.89	0.56 0.60	0.15 - 0.28 -	1.42 1.15
040	New Westminster	48	1.42 *	4	5.39	0.74	0.20 -	1.90
041 042	Burnaby Maple Ridge	79 38	0.71 * 0.84	15 7	17.57 7.10	0.85 0.99	0.48 - 0.39 -	1.41 2.03
043	Coquitlam	65	0.61 *	10	16.85	0.59	0.28 -	1.09
044 045	North Vancouver West Vancouver-Bowen Is.	45 11	0.65 * 0.46 *	5 2	10.78 3.72	0.46 0.54	0.15 - 0.06 -	1.08 1.94
046 047	Sunshine Coast Powell River	10 19	0.70 1.96 *	2 1	2.24 1.46	0.89 0.68	0.10 - 0.01 -	3.22 3.80
048	Howe Sound	18	1.01	-	2.88	- 0.08		- 3.60
049 050	Bella Coola Valley Queen Charlotte	1 4	0.69 1.63	- 2	0.21 0.34	- 5.80	0.65 -	20.94
051	Snow Country	-	-	1	0.04	23.62	0.31 -	131.43
052 053	Prince Rupert Upper Skeena	8 2	1.13 0.79	1 -	1.03 0.38	0.97	0.01 -	5.42
054	Smithers	4	0.51	2	1.15	1.74	0.20 -	6.27
055 056	Burns Lake Nechako	- 7	0.97	1	0.57 1.05	3.50 0.95	0.39 - 0.01 -	12.64 5.31
057 059	Prince George Peace River South	49 5	1.02 0.39 *	4 2	7.21 2.00	0.55 1.00	0.15 - 0.11 -	1.42 3.60
060	Peace River North	6	0.37 *	1	2.52	0.40	0.01 -	2.21
061 062	Greater Victoria Sooke	160 29	1.43 * 0.89	24 4	17.06 5.34	1.41 0.75	0.90 - 0.20 -	2.09 1.92
063	Saanich	21	0.69	4	4.62	0.87	0.23 -	2.22
064 065	Gulf Islands Cowichan	8 25	1.06 0.93	- 3	1.21 4.16	- 0.72	0.14 -	- 2.11
066	Lake Cowichan	5 5	1.59	1	0.49	2.05	0.03 -	11.38
067 068	Ladysmith Nanaimo	51	0.57 1.03	13	1.39 7.71	1.69	0.90 -	2.89
069 070	Qualicum Alberni	13 17	0.62 1.10	2 2	3.29 2.30	0.61 0.87	0.07 - 0.10 -	2.20 3.14
071	Courtenay	27	0.88	3	4.77	0.63	0.13 -	1.84
072 075	Campbell River Mission	29 28	1.40 1.36	9 7	3.11 3.21	2.90 * 2.18	1.32 - 0.87 -	5.50 4.49
076	Agassiz - Harrison	8	1.93	1	0.64	1.57	0.02 -	8.73
077 078	Summerland Enderby	1 4	0.18 1.11	1 1	0.82 0.55	1.22 1.83	0.02 - 0.02 -	6.76 10.17
080 081	Kitimat	3	0.56 0.94	2	0.77	2.58	0.29 -	9.33
083	Fort Nelson Central Coast	3	0.94 1.43	-	0.47 0.10	-		-
084 085	Vancouver Island West Vancouver Island North	- 11	- 1.75	- 2	0.19 0.91	- 2.21	0.25 -	- 7.97
087	Stikine	-	-	-	0.08	-		-
088 092	Terrace Nisga'a	9 2	0.93 2.17	3	1.45 0.14	2.07	0.42 -	6.05
094	Telegraph Creek	-	-	-	0.05	-		-
161 162	Vancouver - City Centre Vancouver - Downtown E.side	89 200	1.29 * 5.64 *	14 28	10.72 6.33	1.31 4.43 *	0.71 - 2.94 -	2.19 6.40
163 164	Vancouver - North East Vancouver - Westside	36 34	0.69 * 0.51 *	2	8.18 10.24	0.24 + 0.59	0.03 -	0.88
165	Vancouver - Midtown	40	0.87	6 1	7.42	0.13 +	0.00 -	1.28 0.75
166 201	Vancouver - South Surrey	29 190	0.43 * 1.07	8 31	10.29 28.15	0.78 1.10	0.33 - 0.75 -	1.53 1.56
201	South Surrey/White Rock	29	0.74	6	6.09	0.99	0.36 -	2.15
	PROVINCIAL TOTAL	2,175	1.00	339	339.00	1.00	0.90 -	1.11

Note:

*Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). +Denotes significance based on less than five deaths. SMR - Standardized Mortality Ratio. Total includes residents with unknown LHA.

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA DRUG-INDUCED DEATHS, BRITISH COLUMBIA, 2005-2009 AND 2010



Drug Overdose Deaths

This section provides information on deaths due to unintentional poisoning by illicit/illegal drugs. These deaths are a small portion of deaths due to unintentional poisoning by drugs, and exclude accidental poisoning by drugs in therapeutic use.

Data on unintentional illicit/illegal drug deaths are retrieved from the Coroners' Medical Certificate of Death. This section only considers deaths where an overdose occurred and was determined to be the underlying cause of death. Deaths due to conditions that may arise from substance abuse, such as Hepatitis 'B' and 'C' and HIV, are excluded from consideration.

Among the substances implicated in these overdoses, there are those generally referred to as "illicit drugs" – heroin, cocaine, and "psychostimulants with abuse potential" including "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxy-methamphetamine). A more precise term for these chemicals might be "illegal" drugs as there is no medically recognized, legal use for either "ecstasy" or "crystal meth". Although both heroin and cocaine have very limited therapeutic uses, in circumstances where a fatal overdose has occurred it is almost certain that these drugs would have been obtained via illegal means.

On the other hand, where morphine is implicated, it is possible that some of the deaths involved legally obtained drugs because morphine is prescribed for chronic and/or severe pain (such as that associated with advanced cancer) and if taken improperly could result in an unintentional overdose. Unfortunately, it is not always possible to differentiate whether an opiate overdose was caused by heroin or morphine, as the information received on the coroners' final reports does not consistently differentiate. Often coroners record "morphine type" overdose, hence the label "heroin/morphine type".

Although methadone is often used legally in the treatment of opiate addiction, a number of deaths are occurring as the result of unintentional methadone overdoses. Therefore, it would appear that methadone is being used in unsanctioned ways resulting in death.

Table 46 shows that deaths due to unintentional overdoses are not confined to any one area in the province. ASMRs for 2010 at the time of reporting appear to have declined in all areas. However, as with other externally caused deaths, reporting is often delayed due to the time required for coroners to complete and report their findings to the Agency. Therefore, these results should be viewed with caution.

Table 47 and Figure 48 depict a general decline in drug overdose fatalities. The ASMR has been consistently much higher for males than for females.

TABLE 46 ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY HEALTH AUTHORITY

British Columbia, 2004–2010

Health Authority	2004	2005	2006	2007	2008	2009	2009
01 Interior	0.75	0.71	0.53	0.83	0.53	0.84	0.52
02 Fraser	0.41	0.58	0.68	0.48	0.49	0.39	0.49
03 Vancouver Coastal	0.58	0.63	0.61	0.54	0.45	0.60	0.31
04 Vancouver Island	0.75	0.64	0.73	0.68	0.63	0.61	0.44
05 Northern	0.40	0.37	0.18	0.54	0.45	0.36	0.50
PROVINCIAL TOTAL	0.56	0.60	0.61	0.58	0.51	0.54	0.43

Note:

Deaths that are still under investigation may later be identified as unintentional illicit/illegal overdose deaths. ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

Table 47

ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER

BRITISH COLUMBIA, 2004-2010

Gender	2004	2005	2006	2007	2008	2009	2010
Male	0.83	0.92	0.93	0.83	0.68	0.75	0.61
Female	0.29	0.29	0.30	0.34	0.35	0.33	0.26
TOTAL	0.56	0.60	0.61	0.58	0.51	0.54	0.43

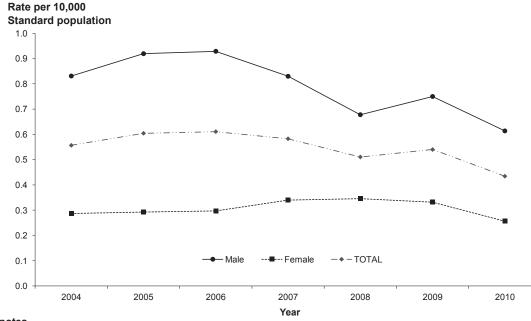
Note:

Deaths that are still under investigation may later be identified as unintentional illicit/illegal overdose deaths. ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

Figure 48

ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER

BRITISH COLUMBIA, 2004-2010



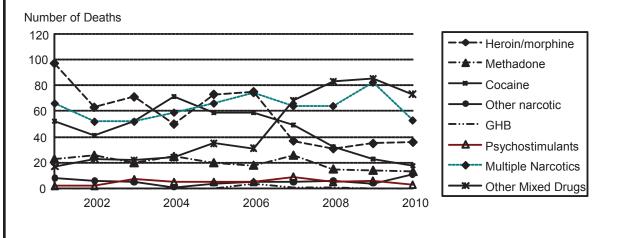
See Table 47 for notes.

Vital Statistics Information Box

UNINTENTIONAL ILLICIT/ILLEGAL DRUG DEATHS BRITISH COLUMBIA, 2001-2010

In 1993, British Columbia experienced an unprecedented "high water" mark in unintentional drug overdoses. In that year, 470 people died as the result of unintentional poisoning by drugs. Over 300 of these were determined to be the result of illicit drug use. These included heroin and other opiates, methadone, and cocaine, used alone or in various combinations or with a variety of other substances being used illicitly.

This information box provides a code-based analysis of deaths due to accidental illicit drug overdoses in British Columbia since 2000. It is important to note that numbers for 2010 (and to a certain extent previous years) may be revised upwards as final reports from investigating coroners are submitted to the Agency for processing. This analysis includes deaths where unintentional drug overdose was determined to be the "underlying cause of death" (see Glossary for the definition of this term), and where the offending substances included selected "narcotics and psychodysleptics" – heroin, morphine, methadone, and cocaine - and "psychostimulants with abuse potential", specifically so-called "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxymethamphetamine). "Mixed drug overdoses" included at least one of the above substances, as well as any other drug. A separate total for deaths in which mixed narcotics such as heroin with cocaine were implicated is also included, because multiple narcotic substances are used in combination relatively frequently.



UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY TYPE OF DRUG BRITISH COLUMBIA, 2001-2010

Vital Statistics Information Box

COUNTS OF DEATHS BY CAUSATIVE SUBSTANCES

Over the past nine years, deaths involving single heroin/morphine type drug use appear to be declining slightly. On the other hand, deaths where cocaine was the only substance implicated appear to be on the increase, along with deaths from combined narcotics.

Deaths from the combined use of illicit drugs with other drugs (other than narcotics) have risen sharply since 2007 and remain the leading cause of illicit drug overdose since then.

The use of psychostimulants is a relatively new phenomenon. Its place as the direct cause of unintentional overdose does not appear to be rising. It is interesting to note that methadone, a substance used in the treatment of heroin addiction, is apparently being used illicitly and causing overdose deaths in and of itself.

OVERDOSE	DEATHS	BY 7	YPE	OF	Drug
OVERDOSE	DEATHS	BY]	YPE	OF	DRUG

British Columbia, 2001-2010

Drug	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Heroin/morphine type only	97	63	71	50	73	75	37	31	35	36
Methadone only	23	26	20	25	20	18	26	15	14	13
Cocaine only	52	41	52	71	59	59	49	32	23	18
Other narcotic/	8	6	5	1	4	5	5	6	4	11
hallucinogen only										
GHB only	0	0	0	0	0	4	1	1	0	0
Psyschostimulants* only	2	2	7	5	5	5	9	5	6	3
Multiple narcotics	66	52	52	59	66	74	64	64	82	53
Other mixed drugs	17	23	22	24	35	31	68	83	85	73
TOTAL	265	213	229	235	262	271	259	237	249	207

Note: Deaths that were still under investigation may later be identified as unintentional illicit/illegal overdose deaths. *ICD-10 codes for psychostimulants include "crystal meth" and "ecstasy".

Unintentional illicit/illegal drug overdose deaths (X41, X42, X44) include these specified drug injury categories: 1) T40.0, T40.1, or T40.2 for heroin/morphine type.

2) T40.3 for methadone.

3) T40.5 for cocaine.

4) T40.4, T40.6, T40.9 for other narcotic/hallucinogen.

5) T41.2 for gamma hydroxybutyrate (GHB).

6) T43.6 for psychostimulant*.

Multiple Narcotic deaths involve mixed drugs from categories 1 - 4 only.

Other Mixed Drug deaths include one illicit drug from categories 1 - 6 (T40.0-T40.9, T41.2, T43.6) and one or more other drugs (T36.0-T48.6, T52.8, T53.9) and are not multiple narcotic deaths.

Non-residents are excluded.

Accidental Fall Deaths

In 2010, there were 1,669 deaths due to external causes among BC residents and of these, unintentional (accidental) deaths comprised over 69.3 percent (1,156) of non-natural deaths. Overall, falls were the leading cause of unintentional death, contributing 42.6 percent to this category in 2010 and exceeding fatal motor-vehicle incidents 493 to 240 (see Table 30).

Analysis of various causes of unintentional (accidental) mortality in 2010 shows that more females died as the result of a fall than males did. Of unintentional mortality, 34.0 percent of male deaths were the result of falls. In contrast, 55.0 percent of female unintentional mortality was the result of falls.

While fatal falls occur across the lifespan of British Columbians, the elderly are far more likely to succumb to the effects of a fall.

The data discussed so far only include events where the fall was determined to be the underlying cause of death (direct). There are additional deaths that involve accidental falls, but where the fall was considered to be only a contributing factor (indirect).

Table 48 and Figure 49 show how age specific rates compare between the two categories (direct and indirect) of fall-related deaths in BC for individuals aged 60 and older. Indirect fall-related deaths are more frequent among the over 70 age group than direct fall deaths; however, in the 60-69 age groups, direct fall deaths are more frequent.

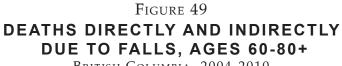
The BC Injury Research and Prevention Unit (BCIRPU) is a national leader in falls injury research and in the design and implementation of falls prevention strategies. A summary of the initiatives undertaken by the BCIRPU can be viewed at the Unit's website: http://www.injuryresearch.bc.ca/index.aspx_under "Falls Prevention" in the "Injury Topics" menu.

TABLE 48 DEATHS DIRECTLY AND INDIRECTLY DUE TO FALLS BY AGE

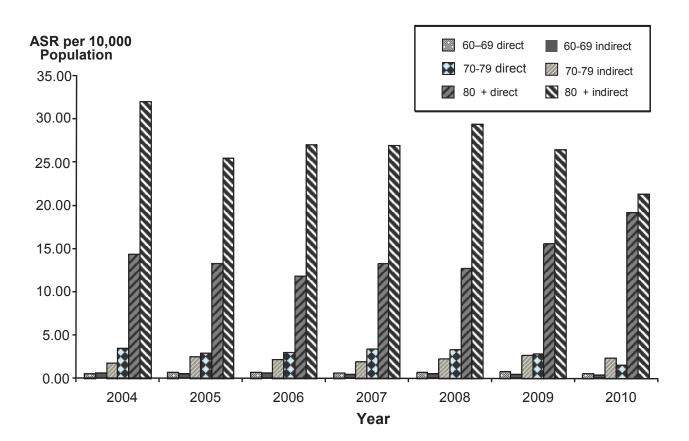
British Columbia, 2004–2010

	Age	20	04	20	05	200)6	200)7	200	08	20	09	20	010
Cause of Death	(in Years)	Counts	ASR												
Directly due to falls															
	60-69	18	0.50	24	0.65	25	0.64	23	0.56	28	0.64	36	0.78	25	0.52
	70-79	44	1.71	65	2.50	57	2.16	50	1.87	61	2.25	72	2.61	64	2.27
	80+	221	14.27	213	13.27	196	11.79	228	13.25	226	12.71	287	15.57	366	19.12
Indirectly due to falls															
	60-69	21	0.59	20	0.54	24	0.62	18	0.44	23	0.53	19	0.41	16	0.33
	70-79	89	3.45	74	2.84	77	2.92	89	3.33	90	3.31	77	2.79	42	1.49
	80+	495	31.97	408	25.42	448	26.94	462	26.85	522	29.36	486	26.36	407	21.27

Note: ASR - Age Specific Rate per 10,000 population.



British Columbia, 2004-2010



Burials and Cremations

Table 49 shows the method used to dispose of decedents' remains.

In 2010, 81.4 percent of deaths resulted in cremations (25,355) and 17.8 percent involved burials (5,535).

Since 1986, the percentage of burials has consistently decreased.

TABLE 49 METHOD OF DISPOSITION OF DECEDENT British Columbia, 1986–2010

	Burial		Crem	ation				
Year	Number	Percent	Number	Percent	Other	N.S.	Total	
1986	8,204	39.0	12,686	60.4	98	21	21,009	
1987	8,211	38.0	13,279	61.4	104	25	21,619	
1988	8,319	37.2	13,926	62.3	96	17	22,358	
1989	8,061	35.4	14,616	64.1	81	28	22,786	
1990	8,208	35.1	15,088	64.4	91	29	23,416	
1991	8,035	33.7	15,675	65.8	75	36	23,821	
1992	7,818	32.0	16,512	67.5	97	36	24,463	
1993	7,989	31.2	17,213	67.2	151	251	25,604	
1994	7,712	29.9	17,888	69.2	177	55	25,832	
1995	7,615	29.0	18,361	70.0	187	63	26,226	
1996	7,640	27.9	19,546	71.4	196	12	27,394	
1997	7,360	27.0	19,652	72.1	213	46	27,271	
1998	7,198	25.9	20,379	73.3	227	9	27,813	
1999	7,063	25.3	20,634	74.0	200	-	27,897	
2000	6,469	23.6	20,695	75.7	190	1	27,355	
2001	6,691	23.7	21,331	75.5	227	1	28,250	
2002	6,541	22.8	21,979	76.5	192	3	28,715	
2003	6,608	22.7	22,363	76.7	188	-	29,159	
2004	6,380	21.5	23,163	77.9	185	-	29,728	
2005	6,282	20.9	23,633	78.5	186	-	30,101	
2006	6,362	20.8	24,014	78.6	168	-	30,544	
2007	6,148	19.8	24,804	79.7	169	-	31,121	
2008	6,313	19.8	25,396	79.6	196	-	31,905	
2009	5,843	18.7	25,198	80.7	199	-	31,240	
2010	5,535	17.8	25,355	81.4	253	-	31,143	

Note: Percent is based on total deaths in the specified year. Other includes remains not recovered and donations as per will of deceased. N.S. – Not stated. Non-residents are excluded.

Vital Statistics Information Box

	METHOD OF	Disposition	BY DECED	ENT'S LOCAL	HEALTH AREA	OF RESID	ENCE
				Columbia, 2			
		Buri		Crema		011	
Local He 001	alth Area Fernie	Number 13	Percent 17	Number 62	Percent 83	Other	Total 75
002 003	Cranbrook Kimberley	30 7	14 9	185 72	86 91	-	215 79
004	Windermere	8	12	60	88	-	68
005 006	Creston Kootenay Lake	27 2	19 5	117 35	81 95	-	144 37
007	Nelson	38	21	138	77	3	179
009 010	Castlegar Arrow Lakes	32 8	28 18	84 36	72 82	-	116 44
011	Trail	37	15	215	85	-	252
012 013	Grand Forks Kettle Valley	27 4	23 14	91 24	77 86	-	118 28
014	Southern Okanagan	33	14	203	85	2	238
015 016	Penticton Keremeos	66 9	13 13	430 60	87 87	-	496 69
017	Princeton	5	8	60	92	-	65
018 019	Golden Revelstoke	9 8	26 16	26 43	74 84	-	35 51
020	Salmon Arm	47	13	320	87	1	368
021 022	Armstrong-Spallumcheen Vernon	12 97	12 16	89 519	88 84	-	101 617
022	Central Okanagan	256	17	1,267	83	5	1,528
024 025	Kamloops 100 Mile House	109 13	13 10	710 112	86 90	10	829 125
026	North Thompson	8	20	32	80		40
027 028	Cariboo-Chilcotin Quesnel	45 32	23 16	152 168	77 84	-	197 200
029	Lillooet	10	31	22	69	-	32
030 031	South Cariboo Merritt	11 25	15 22	59 91	83 78	1	71 116
032	Норе	17	15	93	85	-	110
033	Chilliwack	131	19 27	546	81 72	1 8	678
034 035	Abbotsford Langley	247 132	14	661 810	86	8	916 946
037	Delta	77	12	559	87	8	644
038 040	Richmond New Westminster	235 85	25 17	677 400	73 82	17 4	929 489
041	Burnaby	355	27	933	71	33	1,321
042 043	Maple Ridge Coquitlam	77 153	12 16	566 820	87 83	5 10	648 983
044	North Vancouver	104	14	636	85	11	751
045 046	West Vancouver-Bowen Is. Sunshine Coast	50 17	12 6	372 255	87 93	4	426 273
047	Powell River	21	10	188	87	8	217
048 049	Howe Sound Bella Coola Valley	19 14	18 70	84 6	82 30	-	103 20
050	Queen Charlotte	16	50	16	50	-	32
051 052	Snow Country Prince Rupert	1 23	- 26	3 65	75 74		4 88
053	Upper Skeena	19	63	11	37	-	30
054 055	Smithers Burns Lake/Eutsuk	26 21	36 38	46 34	64 62		72 55
056	Nechako	32	32	67	68	-	99
057 059	Prince George Peace River South	91 63	16 34	473 121	84 66	1	565 184
060	Peace River North	44	27	117	72	1	162
061 062	Greater Victoria Sooke	269 28	13 8	1,796 329	87 92	10	2,075 357
063	Saanich	70	11	568	89	3	641
064 065	Gulf Islands Cowichan	12 70	8 15	132 391	90 85	2	146 461
066	Lake Cowichan	3	5	57	93	1	61
067 068	Ladysmith Nanaimo	24 86	11 9	199 888	89 91	1 2	224 976
069	Qualicum	35	7	466	93	2	503
070 071	Alberni Courtenay	64 30	21 6	244 505	79 94		308 535
072	Campbell River	26	7	326	93	-	352
075 076	Mission Agassiz-Harrison	42 12	16 16	219 60	84 82	1	262 73
077	Summerland	9	7	122	93	-	131
078 080	Enderby Kitimat	12 31	15 47	67 35	85 53		79 66
081	Fort Nelson	9	32	19	68	-	28
083 084	Central Coast Vancouver Island West	10 2	83 20	2 8	17 80	-	12 10
085	Vancouver Island North	18	19	78	80	1	97
087 088	Stikine Terrace	1 40	20 28	4 104	80 72	:	5 144
092	Nisga'a	7	88	1	13		8
094 161	Telegraph Creek	4 101	80 16	1	20 83	- 6	5
161	Vancouver - City Centre Vancouver - Dwtn Eastside	101	32	508 301	83 67	6 4	615 446
163 164	Vancouver - North East	242 174	43 24	307 557	55 75	14 7	563 738
164 165	Vancouver - Westside Vancouver - Midtown	174	24 34	557 255	75 63	13	738 408
166 201	Vancouver - South	267 344	33 18	517	65 81	16 20	800
202	Surrey South Surrey/White Rock	110	13	1,507 730	86	9	1,871 849
	ICIAL TOTAL	5,535	17.8	25,355	81.4	253	31,143

Note: Total includes residents with unkown LHA.