

Table 1.19:

Bronchitis, emphysema, asthma deaths (ICD-9 490-493), age-standardized rate per 100,000 population and confidence interval, by sex, Canada, provinces, territories and health regions, 1996

Code Health Region Name	Total		Male		Female	
	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval
0 Canada	6.1	6.0, 6.3	8.7	8.4, 9.0	4.5	4.4, 4.7
10 Newfoundland	4.0	3.0, 4.9	5.8	4.1, 7.6	2.6	1.5, 3.6
1001 Health and Community Services St John's Region	4.6	2.8, 6.4	7.0	3.5, 10.4	3.2	1.2, 5.1
1002 Health and Community Services Eastern Region	3.9	1.9, 6.0	5.3	1.8, 8.8	3.0	0.6, 5.5
1003 Health and Community Services Central Region	1.1	0.0, 2.2	--	--	--	--
1004 Health and Community Services Western Region	6.2	3.2, 9.3	9.4	3.8, 15.0	3.6	0.4, 6.7
1005 Grenfell Regional Health Services Board	--	--	--	--	0.0	...
1006 Health Labrador Corporation	--	--	--	--	--	--
11 Prince Edward Island	7.1	4.7, 9.4	11.4	6.7, 16.1	4.7	2.0, 7.4
1101 Urban Health Region	8.1	4.5, 11.7	14.4	6.5, 22.3	4.7	1.0, 8.3
1102 Rural Health Region	6.2	3.1, 9.2	8.8	3.4, 14.3	4.7	0.9, 8.6
12 Nova Scotia	5.7	4.9, 6.5	9.0	7.3, 10.6	3.7	2.8, 4.6
1201 Zone 1	5.0	3.1, 6.9	9.0	5.0, 13.0	2.6	0.7, 4.5
1202 Zone 2	6.2	3.4, 8.9	11.6	5.7, 17.5	2.8	0.2, 5.3
1203 Zone 3	5.3	3.1, 7.5	8.0	3.8, 12.1	3.5	1.2, 5.9
1204 Zone 4	5.3	3.0, 7.5	8.6	4.0, 13.1	3.3	0.8, 5.7
1205 Zone 5	9.2	6.6, 11.9	14.2	8.9, 19.4	6.0	3.3, 8.7
1206 Zone 6	4.3	3.0, 5.6	5.9	3.4, 8.4	3.4	2.0, 4.9
13 New Brunswick	5.5	4.6, 6.4	8.2	6.4, 10.0	3.9	2.9, 4.9
1301 Region 1	5.0	3.3, 6.7	4.9	2.2, 7.6	5.0	2.8, 7.1
1302 Region 2	5.7	3.8, 7.6	9.3	5.5, 13.2	3.6	1.5, 5.7
1303 Region 3	5.7	3.6, 7.7	8.3	4.3, 12.3	4.3	2.0, 6.7
1304 Region 4	7.2	3.3, 11.2	12.3	4.2, 20.3	3.8	0.0, 7.5
1305 Region 5	3.6	0.1, 7.0	--	--	--	--
1306 Region 6	6.6	3.6, 9.6	12.0	5.7, 18.3	2.9	0.3, 5.5
1307 Region 7	4.3	1.1, 7.5	7.4	0.8, 14.1	--	--
24 Quebec	8.2	7.8, 8.6	12.6	11.8, 13.4	5.7	5.3, 6.1
2401 Région du Bas-Saint-Laurent	8.8	6.7, 10.9	14.5	10.2, 18.9	5.0	3.0, 7.1
2402 Région du Saguenay - Lac-Saint-Jean	12.2	9.6, 14.8	18.2	12.9, 23.5	8.7	6.0, 11.5
2403 Région de Québec	9.2	7.9, 10.5	14.6	11.6, 17.7	7.0	5.6, 8.4
2404 Région de la Mauricie et Centre-du-Québec	5.7	4.6, 6.8	10.2	7.7, 12.7	3.0	2.0, 4.0
2405 Région de l'Estrie	6.6	5.0, 8.2	8.8	5.8, 11.8	5.3	3.4, 7.2
2406 Région de Montréal-Centre	8.2	7.5, 8.8	12.1	10.7, 13.4	6.1	5.3, 6.8
2407 Région de l'Outaouais	5.7	4.0, 7.4	6.8	3.8, 9.7	4.9	2.8, 7.0
2408 Région de l'Abitibi-Témiscamingue	11.6	8.1, 15.1	16.7	10.4, 23.0	7.5	3.8, 11.2
2409 Région de la Côte-Nord	10.7	6.0, 15.5	17.2	7.3, 27.2	6.6	1.9, 11.3
2410 Région du Nord-du-Québec	--	--	0.0	...	--	--
2411 Région de la Gaspésie-Îles-de-la-Madeleine	8.3	5.3, 11.2	15.2	9.1, 21.4	3.1	0.8, 5.3
2412 Région de la Chaudière-Appalaches	11.3	9.5, 13.2	19.5	15.5, 23.6	6.3	4.5, 8.1
2413 Région de Laval	5.7	4.2, 7.2	7.6	4.5, 10.7	4.8	3.0, 6.5

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Code Health Region Name	Total		Male		Female	
	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval
2414 Région de Lanaudière	10.2	8.1, 12.3	17.3	12.6, 21.9	5.7	3.7, 7.8
2415 Région des Laurentides	8.7	6.9, 10.5	11.9	8.5, 15.2	6.7	4.7, 8.7
2416 Région de la Montérégie	7.3	6.4, 8.2	11.0	9.1, 12.8	5.0	4.0, 6.0
2417 Région du Nunavik	--	--	--	--	--	--
2418 Région des Terres-Cries-de-la-Baie-James	--	--	--	--	0.0	...
35 Ontario	4.8	4.6, 5.1	6.4	6.0, 6.8	3.9	3.6, 4.1
3501 Champlain District Health Council	5.4	4.6, 6.2	8.2	6.5, 9.8	3.8	2.9, 4.6
3502 Quinte-Kingston and Rideau DHC	3.8	2.9, 4.7	5.4	3.7, 7.1	3.0	1.9, 4.1
3503 Durham-Haliburton-Kawartha and Pine Ridge DHC	5.1	4.2, 6.0	6.3	4.7, 7.8	4.4	3.2, 5.5
3504 Toronto District Health Council	4.0	3.5, 4.4	4.7	3.9, 5.4	3.5	3.0, 4.0
3505 Simcoe-York District Health Council	5.0	4.2, 5.9	6.7	5.0, 8.4	4.2	3.1, 5.2
3506 Halton-Peel District Health Council	3.9	3.1, 4.6	5.0	3.5, 6.4	3.3	2.4, 4.2
3507 Waterloo-Wellington-Dufferin DHC	4.8	3.8, 5.8	6.1	4.3, 8.0	4.0	2.8, 5.2
3508 Hamilton-Wentworth DHC	4.6	3.6, 5.7	5.2	3.5, 6.9	4.1	2.8, 5.3
3509 Niagara District Health Council	7.1	5.8, 8.4	10.7	8.2, 13.2	4.8	3.4, 6.2
3510 Grand River DHC	7.5	5.7, 9.3	9.1	5.8, 12.5	6.5	4.3, 8.7
3511 Thames Valley DHC	4.6	3.6, 5.6	6.1	4.4, 7.9	3.4	2.3, 4.5
3512 Essex-Kent and Lambton DHC	5.6	4.6, 6.6	8.9	6.8, 11.0	3.9	2.8, 5.1
3513 Grey-Bruce-Huron and Perth DHC	4.7	3.5, 5.9	6.6	4.4, 8.8	3.6	2.1, 5.1
3514 Muskoka-Nipissing and Parry Sound DHC	5.0	3.5, 6.4	6.6	4.0, 9.3	3.8	2.1, 5.6
3515 Algoma-Cochrane-Manitoulin and Sudbury DHC	7.3	5.8, 8.8	9.3	6.6, 12.0	6.3	4.5, 8.1
3516 Northwestern Ontario DHC	4.3	2.9, 5.8	5.6	3.1, 8.2	3.2	1.6, 4.9
3526 Algoma Public Health Unit	8.8	6.0, 11.7	11.7	6.4, 17.0	7.2	3.9, 10.6
3527 Brant Public Health Unit	11.0	7.9, 14.1	13.3	7.8, 18.9	9.5	5.9, 13.2
3530 Durham Public Health Unit	4.9	3.6, 6.2	5.1	3.1, 7.1	4.7	3.0, 6.4
3531 Elgin-St Thomas Public Health Unit	5.8	3.0, 8.5	7.4	2.6, 12.2	4.4	1.2, 7.5
3533 Bruce-Grey-Owen Sound Public Health Unit	5.6	3.8, 7.3	6.1	3.2, 9.0	5.5	3.1, 8.0
3534 Haldimand-Norfolk Public Health Unit	3.5	1.6, 5.3	4.6	1.2, 8.1	2.9	0.7, 5.0
3535 Haliburton-Kawartha-Pine Ridge Public Health Unit	4.6	3.0, 6.1	7.8	4.5, 11.0	2.6	1.0, 4.2
3536 Halton Public Health Unit	3.4	2.2, 4.5	4.7	2.4, 6.9	2.7	1.4, 4.0
3537 Hamilton-Wentworth Public Health Unit	4.6	3.6, 5.7	5.2	3.5, 6.9	4.1	2.8, 5.3
3538 Hastings and Prince Edward Public Health Unit	4.7	3.0, 6.4	6.6	3.6, 9.7	3.5	1.5, 5.5
3539 Huron Public Health Unit	3.2	1.1, 5.3	5.6	1.5, 9.8	--	--
3540 Kent-Chatham Public Health Unit	4.4	2.3, 6.5	8.2	3.7, 12.8	2.1	0.2, 4.1
3541 Kingston-Frontenac-Lennox and Addington Public Health Unit	2.1	1.0, 3.3	2.7	0.7, 4.7	1.9	0.5, 3.4
3542 Lambton Public Health Unit	7.4	5.0, 9.8	11.8	6.8, 16.7	4.8	2.2, 7.5
3543 Leeds-Grenville-Lanark Public Health Unit	4.5	2.8, 6.2	6.8	3.3, 10.2	3.7	1.5, 5.8

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	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval	Rate per 100,000	95% confidence interval
3544 Middlesex-London Public Health Unit	3.7	2.7, 4.8	5.4	3.4, 7.3	2.5	1.3, 3.6
3545 Muskoka-Parry Sound Public Health Unit	4.4	2.3, 6.6	3.5	0.7, 6.3	5.0	1.9, 8.2
3546 Niagara Public Health Unit	7.1	5.8, 8.4	10.7	8.2, 13.2	4.8	3.4, 6.2
3547 North Bay Public Health Unit	5.6	3.1, 8.1	11.5	5.6, 17.4	1.9	0.0, 3.8
3549 Northwestern Public Health Unit	5.7	2.7, 8.7	7.3	2.2, 12.4	4.3	0.8, 7.8
3551 Ottawa Carleton Public Health Unit	4.9	4.0, 5.8	6.8	5.0, 8.6	3.8	2.7, 4.8
3552 Oxford Public Health Unit	6.8	4.1, 9.5	7.7	3.3, 12.1	6.2	2.7, 9.7
3553 Peel Public Health Unit	4.2	3.2, 5.2	5.2	3.3, 7.1	3.6	2.4, 4.8
3554 Perth Public Health Unit	4.3	1.8, 6.8	8.7	3.3, 14.1	--	--
3555 Peterborough Public Health Unit	5.5	3.6, 7.4	5.6	2.6, 8.5	5.3	2.8, 7.8
3556 Porcupine Public Health Unit	6.0	3.0, 8.9	7.9	2.3, 13.4	5.0	1.5, 8.5
3557 Renfrew Public Health Unit	7.1	4.4, 9.8	12.1	6.4, 17.8	4.3	1.5, 7.2
3558 Eastern Ontario Public Health Unit	5.9	4.1, 7.7	9.8	6.0, 13.6	3.2	1.5, 5.0
3560 Simcoe Public Health Unit	5.4	4.0, 6.8	7.6	4.9, 10.2	4.3	2.6, 5.9
3561 Sudbury Public Health Unit	6.5	4.6, 8.5	7.4	4.2, 10.6	5.9	3.4, 8.5
3562 Thunder Bay Public Health Unit	3.7	2.1, 5.3	4.9	2.0, 7.9	2.8	1.0, 4.7
3563 Timiskaming Public Health Unit	5.0	1.5, 8.5	--	--	5.5	0.6, 10.5
3565 Waterloo Public Health Unit	4.4	3.2, 5.6	4.6	2.5, 6.7	4.5	2.9, 6.1
3566 Wellington-Dufferin-Guelph Public Health Unit	5.5	3.7, 7.2	8.7	5.2, 12.2	3.2	1.4, 4.9
3568 Windsor-Essex Public Health Unit	5.2	3.9, 6.5	8.0	5.4, 10.7	4.1	2.6, 5.7
3570 York Public Health Unit	4.9	3.7, 6.1	6.1	3.9, 8.3	4.2	2.7, 5.7
3595 City of Toronto Public Health Unit	4.0	3.5, 4.4	4.7	3.9, 5.4	3.5	3.0, 4.0
46 Manitoba	4.0	3.4, 4.6	6.1	4.9, 7.3	2.6	1.9, 3.3
4610 Winnipeg	3.2	2.4, 3.9	5.2	3.7, 6.7	2.0	1.2, 2.7
4615 Brandon	7.4	3.3, 11.6	12.3	4.6, 20.0	--	--
4620 North Eastman	4.0	0.5, 7.5	--	--	--	--
4625 South Eastman	5.9	2.0, 9.7	12.2	3.8, 20.7	--	--
4630 Interlake	4.5	2.0, 7.1	4.2	0.5, 7.8	4.9	1.2, 8.6
4640 Central	5.3	2.9, 7.8	6.1	2.3, 10.0	4.9	1.6, 8.2
4650 Marquette	2.5	0.5, 4.4	--	--	--	--
4655 South Westman	7.3	3.0, 11.5	13.8	5.2, 22.4	--	--
4660 Parkland	5.9	2.6, 9.2	8.6	2.9, 14.2	--	--
4670 Norman	--	--	--	--	0.0	...
4680 Burntwood/Churchill	--	--	0.0	...	--	--
47 Saskatchewan	6.8	6.0, 7.6	10.5	8.9, 12.0	4.3	3.4, 5.1
4701 Weyburn (A) Service Area	6.0	3.1, 8.9	9.1	3.6, 14.5	3.1	0.7, 5.5
4702 Moose Jaw (B) Service Area	5.3	2.5, 8.2	9.1	3.7, 14.5	--	--
4703 Swift Current (C) Service Area	5.7	2.7, 8.8	10.6	4.3, 16.9	--	--
4704 Regina (D) Service Area	6.4	4.7, 8.1	10.4	7.0, 13.7	3.7	2.0, 5.4
4705 Yorkton (E) Service Area	9.5	6.0, 13.0	11.8	6.1, 17.5	8.0	3.5, 12.4
4706 Saskatoon (F) Service Area	7.5	5.8, 9.3	12.4	8.9, 15.8	4.2	2.5, 6.0
4707 Rosetown (G) Service Area	5.5	2.4, 8.7	7.4	1.9, 12.9	4.3	0.4, 8.2
4708 Melfort (H) Service Area	7.4	3.8, 10.9	11.4	4.8, 17.9	4.2	0.7, 7.7
4709 Prince Albert (I) Service Area	5.0	2.5, 7.5	8.1	3.3, 12.9	2.5	0.3, 4.8
4710 North Battleford (J) Service Area	8.9	5.0, 12.8	10.9	4.7, 17.1	7.7	2.5, 13

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4711 Northern Health Services Branch (K) Service Area	--	--	--	--	--	--
48 Alberta	6.6	6.0, 7.2	8.9	7.9, 10.0	5.1	4.4, 5.8
4801 Chinook Regional Health Authority	9.3	6.6, 12.0	12.9	8.0, 17.7	7.1	3.8, 10.4
4802 Palliser Health Authority	6.4	3.6, 9.2	10.0	4.8, 15.3	3.7	0.7, 6.8
4803 Headwaters Health Authority	5.4	2.0, 8.7	7.3	1.4, 13.2	4.0	0.0, 7.9
4804 Calgary Regional Health Authority	6.0	4.9, 7.1	7.7	5.7, 9.8	5.0	3.7, 6.3
4805 Health Authority #5	6.3	2.4, 10.3	9.6	2.5, 16.7	--	--
4806 David Thompson Regional Health Authority	4.9	3.0, 6.8	6.8	3.4, 10.3	3.6	1.4, 5.9
4807 East Central Health Authority	5.0	2.9, 7.2	6.4	2.9, 9.9	4.2	1.5, 7.0
4808 WestView Regional Health Authority	2.9	0.6, 5.3	--	--	--	--
4809 Crossroads Regional Health Authority	--	--	--	--	--	--
4810 Capital Health Authority	6.9	5.8, 8.1	8.4	6.4, 10.3	5.9	4.6, 7.3
4811 Aspen Regional Health Authority	10.9	6.9, 14.8	18.2	10.5, 25.8	4.5	1.1, 7.9
4812 Lakeland Regional Health Authority	7.5	4.5, 10.5	9.8	4.7, 14.9	6.2	2.3, 10.0
4813 Mistahia Regional Health Authority	7.3	3.3, 11.3	12.2	4.5, 19.8	--	--
4814 Peace Regional Health Authority	18.9	5.7, 32.2	32.0	6.1, 58.0	--	--
4815 Keeweenaw Regional Health Authority	--	--	--	--	--	--
4816 Northern Lights Regional Health Authority	--	--	--	--	--	--
4817 Northwestern Regional Health Authority	--	--	--	--	0.0	...
59 British Columbia	6.6	6.2, 7.1	8.8	8.0, 9.6	5.3	4.7, 5.8
5901 East Kootenay	5.6	2.7, 8.5	7.4	1.8, 13.1	5.2	1.3, 9.1
5902 West Kootenay-Boundary	7.6	4.6, 10.7	14.6	8.1, 21.1	3.0	0.3, 5.7
5903 North Okanagan	6.9	4.5, 9.3	9.8	5.4, 14.2	5.3	2.4, 8.2
5904 South Okanagan Similkameen	5.6	4.2, 7.0	8.5	5.9, 11.2	3.4	2.0, 4.9
5905 Thompson	12.5	8.8, 16.1	15.3	9.0, 21.6	10.6	6.0, 15.1
5906 Fraser Valley	7.6	5.7, 9.5	6.3	3.7, 8.8	8.3	5.7, 10.9
5907 South Fraser Valley	6.4	5.1, 7.6	8.1	5.9, 10.4	5.2	3.7, 6.7
5908 Simon Fraser	7.0	5.1, 8.9	9.2	5.7, 12.7	5.8	3.6, 8.0
5909 Coast Garibaldi	4.2	1.4, 7.0	6.0	0.5, 11.5	3.5	0.1, 6.9
5910 Central Vancouver Island	9.0	7.0, 10.9	11.4	7.9, 14.9	7.3	5.0, 9.7
5911 Upper Island / Central Coast	2.5	0.8, 4.2	3.7	0.4, 6.9	--	--
5912 Cariboo	8.0	3.4, 12.5	10.6	3.4, 17.7	4.7	0.0, 9.4
5913 North West	8.3	3.1, 13.5	10.1	2.0, 18.3	6.3	0.1, 12.5
5914 Peace Liard	5.8	1.4, 10.3	--	--	7.3	0.1, 14.5
5915 Northern Interior	4.5	1.5, 7.5	5.5	0.3, 10.6	--	--
5916 Vancouver	4.8	3.8, 5.8	7.7	5.7, 9.7	2.7	1.8, 3.6
5917 Burnaby	6.9	4.9, 8.9	8.7	5.2, 12.3	5.9	3.4, 8.3
5918 North Shore	4.4	2.8, 6.0	5.3	2.4, 8.2	3.9	1.9, 5.9
5919 Richmond	5.9	3.7, 8.2	4.3	1.3, 7.3	6.7	3.6, 9.7
5920 Capital	8.8	7.3, 10.3	12.3	9.6, 15.0	6.8	5.1, 8.5
5921 Vancouver/Richmond	5.0	4.1, 5.9	7.1	5.3, 8.8	3.4	2.4, 4.3
5922 Simon Fraser/Burnaby	6.9	5.5, 8.3	8.9	6.4, 11.4	5.8	4.2, 7.4

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60 Yukon Territory	--	--	--	--	0.0	...
6001 Yukon Territory	--	--	--	--	0.0	...
61 Northwest Territories	--	--	--	--	--	--
6101 Northwest Territories	--	--	--	--	--	--
62 Nunavut	--	--	--	--	0.0	...
6201 Nunavut	--	--	--	--	0.0	...

-- Suppressed due to both small numbers and extremely high variability

... Not applicable

Confidence intervals illustrate the degree of variability associated with the rate. See Technical Notes.

These rates are created by average of three years of data (1995, 1996, 1997) over the 1996 population estimates; age-standardized to the 1991 Canadian population age structure.

Rates for Ontario are presented for both **District Health Councils (DHC)** and **Public Health Units (PHU)**. DHCs are more relevant for health system analysis while PHUs are more relevant for health status measures.

Source: Canadian Vital Statistics Database, Statistics Canada



Statistique Canada
Statistics Canada



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