

## LHIN 4 – Hamilton Niagara Haldimand Brant Profile: Adult Health and Disease

Indicators	Ontario			Toronto Central LHIN			Hamilton Niagara Haldimand Brant			
	Males	Females	Both sexes	Males	Females	Both sexes	Males (95% CI)	Females (95% CI)	Both sexes (95% CI)	Rate Ratio**
<b>Demographics</b>										
Total Population Age 20-44 <sup>a</sup>	2,003,902	2,063,163	4,067,065	233,721	248,287	482,008	216,481	214,080	430,561	
Total Population Age 45-64 <sup>a</sup>	1,711,881	1,764,790	3,476,671	155,933	155,262	311,195	192,620	197,623	390,243	
Total Population Age 65+ <sup>a</sup>	823,469	1,012,925	1,836,394	66,459	87,258	153,717	101,174	126,720	227,894	
<b>Chronic Illness (2012)</b>										
<b>Diabetes <sup>±</sup></b>										
# of people With diabetes	58,573	64,464	123,037	5,653	5,746	11,399	6,077	6,231	12,308	
% With diabetes	2.9	3.1	3.0	2.4	2.3	2.4	2.8	2.9	2.9	0.97 L
Age 20-44							(2.7-2.9)	(2.8-3.0)	(2.8-2.9)	
# of people With diabetes	286,120	231,412	517,532	22,241	18,167	40,408	31,167	24,201	55,368	
% With diabetes	16.7	13.1	14.9	14.3	11.7	13.0	16.2	12.2	14.2	0.95 L
Age 45-64							(16.0-16.4)	(12.1-12.4)	(14.1-14.3)	
# of people With diabetes	321,981	328,453	650,434	24,775	28,413	53,188	39,126	39,417	78,543	
% With diabetes	39.1	32.4	35.4	37.3	32.6	34.6	38.7	31.1	34.5	0.97 L
Age 65+							(38.3-39.1)	(30.8-31.4)	(34.2-34.7)	
# of people With diabetes 20+	666,674	624,329	1,291,003	52,669	52,326	104,995	76,370	69,849	146,219	
% With diabetes	11.6	11.1	11.4	10.4	10.2	10.3	11.3	10.4	10.9	0.96 L
Age-Standardized †							(11.3-11.4)	(10.4-10.5)	(10.8-10.9)	
<b>Asthma <sup>±</sup></b>										
# of people With asthma	288,225	319,724	607,949	29,041	31,984	61,025	31,713	35,538	67,251	
% With asthma	14.4	15.5	14.9	12.4	12.9	12.7	14.6	16.6	15.6	1.05 H
Age 20-44							(14.5-14.8)	(16.4-16.8)	(15.5-15.7)	
# of people With asthma	148,406	244,378	392,784	14,701	21,776	36,477	14,988	25,458	40,446	
% With asthma	8.7	13.8	11.3	9.4	14.0	11.7	7.8	12.9	10.4	0.92 L
Age 45-64							(7.7-7.9)	(12.7-13.0)	(10.3-10.5)	
# of people With asthma	84,652	145,365	230,017	8,177	14,174	22,351	9,352	16,511	25,863	
% With asthma	10.3	14.4	12.5	12.3	16.2	14.5	9.2	13.0	11.3	0.90 L
Age 65+							(9.1-9.4)	(12.8-13.2)	(11.2-11.5)	
# of people With asthma 20+	521,283	709,467	1,230,750	51,919	67,934	119,853	56,053	77,507	133,560	
% With asthma	12.2	15.1	13.7	11.6	13.8	12.7	12.0	15.0	13.5	0.99 L
Age-Standardized †							(11.9-12.1)	(14.9-15.1)	(13.5-13.6)	
<b>High Blood Pressure <sup>±</sup></b>										
# of people With HBP	123,789	101,977	225,766	11,829	8,985	20,814	13,407	10,989	24,396	
% With high blood pressure	6.2	4.9	5.6	5.1	3.6	4.3	6.2	5.1	5.7	1.02 NS
Age 20-44							(6.1-6.3)	(5.0-5.2)	(5.6-5.7)	
# of people With HBP	567,467	533,514	1,100,981	44,230	40,916	85,146	64,488	59,505	123,993	
% With high blood pressure	33.1	30.2	31.7	28.4	26.4	27.4	33.5	30.1	31.8	1.00 NS
Age 45-64							(33.2-33.7)	(29.9-30.4)	(31.6-32.0)	
# of people With HBP	577,953	736,493	1,314,446	45,207	61,649	106,856	71,950	92,761	164,711	
% With high blood pressure	70.2	72.7	71.6	68.0	70.7	69.5	71.1	73.2	72.3	1.01 H
Age 65+							(70.1-72.1)	(72.3-74.1)	(71.6-72.9)	
# of people With HBP 20+	1,269,209	1,371,984	2,641,193	101,266	111,550	212,816	149,845	163,255	313,100	
% With high blood pressure	22.2	23.9	23.1	20.0	21.7	20.8	22.5	23.9	23.2	1.00 H
Age-Standardized †							(22.4-22.6)	(23.9-24.0)	(23.2-23.3)	

**CI** Confidence Interval; LL = Lower Limit; UL = Upper Limit

**H / L / NS** Chances are at least 19 in 20 that the rate is higher (H) or lower (L) than the Ontario rate ( $p < 0.05$ ). Rates marked not significantly (NS) different do not reach this level of significance.

**<sup>a</sup>** Denominator: Ontario Ministry of Health and Long-Term Care Registered Persons Database (RPDB), population with at least one health claim in the previous five years.

**<sup>±</sup>** Numerator: derived from validated, disease registries maintained by the Institute for Clinical Evaluative Sciences (ICES)  
Diabetes derived from the Ontario Diabetes Database (ODD) maintained by the Institute for Clinical Evaluative Sciences (ICES)

**\*** Rates based on fewer than 20 events are likely to be unstable.

**\*\*** Rate ratios for both sexes were created by dividing the local area rate by the Ontario aggregate rate.

**†** Rates are age-standardized using the direct method and the 1991 Canada population as the standard population.

## LHIN 4 – Hamilton Niagara Haldimand Brant Profile: Adult Health and Disease

Indicators	Ontario			Toronto Central LHIN			Hamilton Niagara Haldimand Brant			
	Males	Females	Both sexes	Males	Females	Both sexes	Males (95% CI)	Females (95% CI)	Both sexes (95% CI)	Rate Ratio**
<b>Demographics</b>										
Total Population Age 20-44 <sup>a</sup>	2,003,902	2,063,163	4,067,065	233,721	248,287	482,008	216,481	214,080	430,561	
Total Population Age 35-64 <sup>a</sup>	2,514,902	2,601,478	5,116,380	252,970	251,777	504,747	279,091	284,194	563,285	
Total Population Age 45-64 <sup>a</sup>	823,469	1,012,925	1,836,394	155,933	155,262	311,195	192,620	197,623	390,243	
Total Population Age 65+ <sup>a</sup>	1,711,881	1,764,790	3,476,671	66,459	87,258	153,717	101,174	126,720	227,894	
<b>Chronic Illness (2012)</b>										
<b>Mental Health <sup>±</sup></b>										
# of people With MHV	131,740	197,989	329,729	15,648	20,742	36,390	15,603	23,257	38,860	
% With mental health visits	6.6	9.6	8.1	6.7	8.4	7.5	7.2	10.9	9.0	1.11 H
Age 20-44							(7.1-7.3)	(10.7-11.0)	(8.9-9.1)	
# of people With MHV	125,023	185,051	310,074	13,663	16,998	30,661	14,210	21,455	35,665	
% With mental health visits	7.3	10.5	8.9	8.8	10.9	9.9	7.4	10.9	9.1	1.02 H
Age 45-64							(7.3-7.5)	(10.7-11.0)	(9.0-9.2)	
# of people With MHV	53,081	86,857	139,938	5,150	8,558	13,708	6,240	10,724	16,964	
% With mental health visits	6.4	8.6	7.6	7.7	9.8	8.9	6.2	8.5	7.4	0.97 NS
Age 65+							(6.0-6.3)	(8.3-8.6)	(7.3-7.6)	
# of people With MHV 20+	309,844	469,897	779,741	34,461	46,298	80,759	36,053	55,436	91,489	
% With mental health visits	6.7	9.8	8.3	7.4	9.3	8.4	7.1	10.4	8.8	1.06 H
Age-Standardized <sup>†</sup>							(7.0-7.2)	(10.3-10.5)	(8.7-8.9)	
<b>Chronic Obstructive Pulmonary Disease (COPD) <sup>±</sup></b>										
# of people With COPD	197,573	194,622	392,195	17,840	14,344	32,184	24,303	25,237	49,540	
% With COPD	7.9	7.5	7.7	7.1	5.7	6.4	8.7	8.9	8.8	1.14 H
Age 35-64							(8.6-8.8)	(8.8-9.0)	(8.7-8.9)	
# of people With COPD	196,467	210,627	407,094	16,147	16,337	32,484	24,246	27,000	51,246	
% With COPD	23.9	20.8	22.2	24.3	18.7	21.1	24.0	21.3	22.5	1.01 H
Age 65+							(23.7-24.3)	(21.1-21.6)	(22.3-22.7)	
# of people With COPD 35+	394,040	405,249	799,289	33,987	30,681	64,668	48,549	52,237	100,786	
% With COPD	11.6	11.7	11.7	10.7	9.3	10.0	12.0	12.3	12.1	1.03 H
Age-Standardized <sup>†</sup>							(11.9-12.1)	(12.2-12.4)	(12.1-12.2)	

**CI** Confidence Interval; LL = Lower Limit; UL = Upper Limit

**H / L / NS** Chances are at least 19 in 20 that the rate is higher (H) or lower (L) than the Ontario rate ( $p < 0.05$ ). Rates marked not significantly (NS) different do not reach this level of significance.

**<sup>a</sup>** Denominator: Ontario Ministry of Health and Long-Term Care Registered Persons Database (RPDB), population with at least one health claim in the previous five years.

**<sup>±</sup>** Numerator: derived from validated, disease registries maintained by the Institute for Clinical Evaluative Sciences (ICES) Mental health conditions are defined by the occurrence of a doctor's visit for a symptom related to mental health. Non-OHIP (Ontario Health Insurance Plan) claims are not available.

**\*\*** Rate ratios for both sexes were created by dividing the local area rate by the Ontario aggregate rate.

**†** Rates are age-standardized using the direct method and the 1991 Canada population as the standard population.

For information about definitions, data quality & limitations, and selection & preparation of variables, please go to: <http://www.torontohealthprofiles.ca/aboutTheData.php>