

## Asthma Indicators for LHIN 4: Hamilton Niagara

Indicator	Asthma Indicators for LHIN 4: Hamilton Niagara																						
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017*	2018*
1. PFT used for diagnosis (% of incident asthma) <sup>†</sup>	54.15	54.23	51.53	50.10	51.91	50.89	51.20	49.30	50.53	51.53	54.35	55.58	57.59	57.61	58.56	57.84	59.13	60.45	61.53	61.79	64.29	65.79	65.67
2. PFT used for monitoring (% of prevalent asthma) <sup>†</sup>	17.59	16.06	15.32	13.91	12.97	11.99	11.09	10.35	9.47	9.20	9.17	8.88	8.63	9.01	9.25	8.74	8.58	8.15	7.88	7.84	7.85	7.99	8.06
3. ≥1 ICS prescription (% of prevalent asthma) <sup>‡</sup>	63.83	61.69	59.61	58.48	57.50	56.54	55.06	52.72	53.32	53.27	51.96	51.34	50.79	50.48	50.23	52.06	51.61	51.55	50.54	50.99	49.76	46.88	44.55
4. ≥1 β2-agonist prescription (% of prevalent asthma) <sup>‡</sup>	63.54	61.18	59.36	57.97	56.64	54.55	51.93	48.54	47.03	45.47	43.75	42.61	39.74	38.35	38.49	38.88	38.00	38.01	35.94	26.72	26.06	24.90	24.52
5. ≥1 asthma ED visit (% of prevalent asthma)	4.47	3.82	3.59	3.35	3.33	2.87	2.84	2.34	2.32	2.26	2.08	1.88	1.63	1.52	1.36	1.27	1.15	1.17	1.00	1.07	1.01	0.92	0.94
6. ≥1 asthma physician office visit (% of prevalent asthma)	35.23	31.50	28.84	27.09	25.28	24.09	21.73	20.07	19.03	18.49	17.87	16.69	15.43	14.62	14.43	13.54	12.77	12.64	12.05	12.08	11.92	11.71	11.64
7. β2-agonist use (% of prevalent asthma) <sup>‡</sup>																							
0	36.46	38.82	40.64	42.03	43.36	45.45	48.07	51.46	52.97	54.53	56.25	57.39	60.26	61.65	61.51	61.12	62.00	61.99	64.06	73.28	73.94	75.10	75.48
1-2	18.34	18.85	18.65	18.65	18.53	18.68	18.69	17.70	17.68	18.09	17.95	17.85	17.92	17.81	17.81	18.57	18.32	18.77	17.81	13.36	12.37	12.02	11.96
≥3	45.20	42.32	40.72	39.32	38.11	35.87	33.24	30.83	29.35	27.37	25.80	24.76	21.82	20.55	20.68	20.31	19.68	19.24	18.13	13.37	13.69	12.88	12.56

\*Reporting period is from April 1996 to March 2019. Data for 2017 and 2018 may be incomplete due to the 2-year algorithm to identify asthma, and numbers are subject to change.

PFT = pulmonary function test; ICS = inhaled corticosteroid; ED = emergency department; ODB = Ontario Drug Benefit; OHIP = Ontario Health Insurance Plan; LHIN = Local Health Integration Network; HSU = health services use

<sup>†</sup>PFT data refers to individuals aged 7-99 years in the asthma prevalent population.

<sup>‡</sup>Drug use data refers to individuals aged 66-99 years with complete year ODB coverage in the asthma prevalent population.

### Technical notes:

<sup>a</sup>OHIP data was up to December 2019 when the tables were created.

<sup>b</sup>For asthma incidence from July 2017 to March 2019, PFT data for 2.5-year post asthma incidence are not complete as latest data were available up to December 2019 when the tables were created.

<sup>c</sup>Individuals with missing LHIN, rurality, or without OHIP coverage were excluded.

<sup>d</sup>Asthma incidence of the year were excluded from this table, except for indicator 1.

<sup>e</sup>Index date is defined as the first service date of asthma HSU, or any HSU if there was no asthma HSU, or April 1 if there was no HSU during the year.

### Asthma indicators - detailed description:

1. Percent of asthma incidence aged 7 years and above with a PFT in one year prior to or 2.5 years after incidence date<sup>a-c</sup>

2. Percent of asthma prevalence aged 7 years and above with a PFT in one year prior to the index date<sup>a,c-e</sup>

3. Percent of asthma prevalence 66 years and above with at least one prescription of ICS in one year prior to the index date<sup>c-e</sup>

4. Percent of asthma prevalence aged 66 years and above with at least one prescription of β2-agonist in one year prior to the index date<sup>c-e</sup>

5. Percent of asthma prevalence with at least one ED visit in one year prior to the index date<sup>c-e</sup>

6. Percent of asthma prevalence with at least one physician office visit in one year prior to the index date<sup>c-e</sup>

7. Distribution of the three categories of β2-agonist use for asthma prevalence aged 66 years and above<sup>c,d</sup>

Source: This table uses statistics reported by the Ontario Asthma Surveillance Information System (OASIS) and data provided by ICES, Ontario.