

Asthma Emergency Department Visit Crude Rates

		Asthma Emergency Department Visits Crude Rates (per 100 Active Asthma)															
Sex	Age Group	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017*	2018*
All	All	14.24	14.51	14.39	13.77	12.52	12.22	11.41	11.09	10.79	10.97	10.04	10.62	10.10	9.77	10.13	10.01
	0-4	22.51	23.24	24.01	22.12	19.36	19.18	15.76	15.20	13.96	14.66	12.84	14.01	12.74	13.03	14.27	15.91
	5-9	14.15	14.85	16.23	15.10	13.80	12.74	12.50	11.44	11.63	11.52	10.76	12.24	10.54	10.28	10.33	10.17
	10-14	12.03	11.63	12.28	11.68	11.03	10.42	10.24	9.87	10.24	9.76	9.28	10.29	9.31	8.64	8.77	8.13
	15-19	17.64	17.03	17.17	16.16	14.95	14.84	13.98	13.71	12.94	14.27	12.99	13.78	13.42	13.70	12.69	13.41
	20-29	20.50	19.92	19.38	18.71	17.06	17.12	16.19	15.82	15.64	15.70	14.68	15.10	15.23	14.50	15.15	14.68
	30-39	14.12	14.41	14.00	14.37	13.28	13.06	12.78	12.70	12.59	12.50	11.69	12.25	11.87	10.81	11.68	11.95
	40-49	11.61	12.57	11.26	11.54	10.59	10.53	10.03	9.94	10.15	10.41	9.47	9.71	9.53	9.12	9.80	9.07
	50-59	9.94	10.41	9.68	9.53	8.87	8.39	8.47	8.24	7.84	8.42	7.75	7.85	7.81	7.64	8.29	7.61
	60-69	8.07	8.26	7.15	7.39	6.69	6.89	6.30	6.40	6.22	6.49	6.01	6.27	6.35	6.01	6.25	6.14
	70-79	6.73	7.33	6.64	5.90	6.01	5.82	5.27	5.69	5.37	5.79	5.64	5.43	5.68	5.69	5.48	5.27
80-89	6.91	7.42	7.11	6.53	5.85	6.30	5.52	6.24	5.66	5.78	5.35	6.30	6.29	6.66	6.46	6.49	
90-99	8.62	7.95	6.19	5.97	6.66	6.73	6.35	6.77	5.21	6.83	6.50	6.91	6.74	8.62	8.34	8.52	
Female	All	13.81	14.03	13.63	13.01	12.09	11.77	11.10	10.96	10.72	10.88	9.99	10.56	10.12	9.83	10.14	10.07
	0-4	19.37	20.07	20.61	18.96	16.97	15.97	13.18	13.00	12.03	12.48	10.77	11.40	10.58	11.18	11.94	13.98
	5-9	12.78	13.12	14.38	12.88	12.01	11.58	11.03	10.12	10.56	10.48	9.34	10.79	9.22	9.29	8.93	9.27
	10-14	12.27	11.82	12.11	11.60	10.56	10.56	10.05	9.95	10.25	9.76	9.38	11.16	9.30	9.05	8.95	8.05
	15-19	19.13	19.04	19.17	18.05	16.80	16.09	15.17	15.47	14.28	15.15	14.12	15.55	15.12	15.15	14.25	15.35
	20-29	20.24	19.23	19.29	18.62	17.11	16.80	16.30	15.61	15.80	15.72	14.94	15.66	15.59	15.06	15.89	15.63
	30-39	14.94	15.30	14.89	14.44	13.90	13.71	13.38	13.37	13.13	13.43	12.09	13.04	12.78	11.62	12.45	12.82
	40-49	12.39	13.26	11.46	11.98	11.40	11.24	10.77	10.47	10.95	11.21	10.36	10.71	10.23	9.90	10.59	9.73
	50-59	10.77	11.34	10.39	9.77	9.26	8.84	8.87	9.07	8.70	9.09	8.52	8.51	8.64	8.19	9.02	8.17
	60-69	8.61	9.04	7.74	8.02	7.32	7.57	6.94	7.18	7.05	7.27	6.71	6.84	6.88	6.72	6.90	6.81
	70-79	7.32	8.13	7.39	6.42	6.91	6.76	6.00	6.59	6.20	6.65	6.46	6.37	6.42	6.39	6.20	6.18
80-89	7.90	7.98	7.91	7.48	6.47	6.86	6.51	7.41	6.21	6.75	6.23	7.19	7.30	7.80	7.46	7.80	
90-99	9.28	8.92	5.86	6.58	6.77	7.06	6.53	8.10	5.42	6.77	7.33	7.38	7.59	8.78	9.17	10.00	
Male	All	14.73	15.05	15.25	14.62	13.00	12.73	11.75	11.23	10.87	11.08	10.09	10.69	10.09	9.69	10.12	9.93
	0-4	24.38	25.18	26.06	24.03	20.80	21.12	17.32	16.57	15.17	16.01	14.12	15.63	14.10	14.21	15.75	17.15
	5-9	15.00	15.94	17.37	16.51	14.90	13.46	13.41	12.24	12.30	12.17	11.64	13.13	11.37	10.89	11.20	10.75
	10-14	11.86	11.50	12.40	11.73	11.36	10.33	10.37	9.83	10.23	9.75	9.21	9.68	9.32	8.36	8.64	8.19
	15-19	15.97	14.77	14.96	14.11	12.97	13.56	12.77	11.88	11.58	13.39	11.84	11.97	11.68	12.22	11.11	11.48
	20-29	20.89	20.88	19.51	18.84	17.00	17.54	16.03	16.10	15.43	15.67	14.35	14.40	14.79	13.84	14.27	13.57
	30-39	12.83	13.04	12.64	14.27	12.38	12.11	11.88	11.68	11.79	11.13	11.12	11.11	10.59	9.69	10.61	10.80
	40-49	10.28	11.42	10.92	10.83	9.28	9.41	8.82	9.10	8.87	9.13	8.05	8.11	8.42	7.84	8.54	8.00
	50-59	8.45	8.75	8.43	9.12	8.17	7.62	7.76	6.85	6.41	7.32	6.52	6.81	6.50	6.77	7.18	6.76
	60-69	7.21	7.01	6.19	6.36	5.64	5.73	5.22	5.05	4.80	5.14	4.80	5.28	5.45	4.79	5.18	5.06
	70-79	5.84	6.14	5.47	5.12	4.64	4.39	4.15	4.29	4.06	4.41	4.31	3.89	4.49	4.53	4.26	3.70
80-89	5.18	6.39	5.74	4.89	4.81	5.32	3.81	4.26	4.72	4.07	3.88	4.84	4.59	4.75	4.72	4.19	
90-99	7.01	5.41	7.10	4.53	6.38	5.88	5.95	3.63	4.67	7.00	4.35	5.81	4.78	8.21	6.36	4.89	

Asthma Emergency Department Visit Crude Rates (cont'd)

	Asthma Emergency Department Visits Crude Rates (per 100 Active Asthma)															
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017*	2018*
<b>Deprivation Quintile<sup>†</sup></b>																
Q1 (least marginalized)	9.66	11.06	10.84	10.18	8.89	8.57	9.15	8.83	8.55	9.09	7.78	7.70	7.26	7.12	7.55	7.41
Q2	12.15	12.54	12.31	11.83	10.48	10.27	10.24	10.05	9.77	9.86	8.94	8.94	8.39	8.17	8.45	8.56
Q3	14.08	13.85	14.03	13.10	11.91	11.81	11.38	11.32	10.74	10.96	10.00	10.39	9.87	9.58	9.72	9.68
Q4	16.71	16.03	15.96	15.40	14.03	13.95	11.49	11.25	10.86	10.71	9.84	12.00	11.40	11.03	11.41	11.07
Q5 (most marginalized)	18.01	17.79	17.77	17.50	16.63	15.94	13.30	12.68	12.57	12.87	12.15	13.55	13.08	12.61	13.22	13.05
<b>Rurality<sup>‡</sup></b>																
Urban	12.71	13.00	12.79	12.18	11.11	10.82	10.05	9.76	9.48	9.77	8.92	9.46	9.04	8.81	9.15	9.08
Rural	26.93	28.17	29.31	29.29	26.97	26.90	26.29	25.82	25.65	25.13	23.54	26.01	24.48	22.96	23.30	22.46
<b>Local Health Integration Network</b>																
1. Erie St. Clair	14.25	12.55	12.37	11.96	11.42	11.33	10.22	9.74	9.39	9.68	8.77	9.14	8.65	7.75	6.89	7.55
2. South West	24.22	23.14	24.77	23.57	21.96	21.63	19.73	18.32	17.70	17.08	15.73	16.66	15.99	16.16	17.65	16.85
3. Waterloo Wellington	17.64	17.30	16.23	15.18	14.94	13.71	13.46	12.72	12.71	13.28	12.00	13.27	12.04	11.54	11.76	11.74
4. Hamilton Niagara Haldimand Brant	15.56	15.81	15.13	14.40	13.27	13.04	12.01	11.56	11.15	11.47	10.41	10.91	10.56	9.81	9.83	9.79
5. Central West	10.11	10.33	10.13	9.66	8.63	8.44	7.91	7.37	7.20	7.76	6.60	7.87	7.62	7.46	9.02	8.61
6. Mississauga Halton	9.59	9.69	10.17	9.38	8.25	7.78	7.23	7.63	6.78	6.70	6.37	6.68	6.17	6.08	6.57	6.19
7. Toronto Central	10.71	11.33	11.60	11.52	10.66	10.11	9.29	9.20	9.08	9.30	8.66	8.96	8.18	7.74	8.20	7.92
8. Central	8.45	9.32	8.89	8.23	7.30	7.30	6.75	6.90	6.68	6.86	6.66	6.70	6.53	6.56	6.63	6.57
9. Central East	12.93	13.84	13.30	12.83	12.02	11.51	11.25	10.84	10.96	11.02	10.24	10.67	10.13	9.45	9.49	9.45
10. South East	20.04	21.26	21.84	23.90	20.98	21.29	18.19	18.38	18.82	18.96	17.48	17.85	18.38	17.19	19.22	17.26
11. Champlain	15.21	15.89	15.91	14.14	12.24	12.21	11.84	11.82	11.42	12.01	10.65	11.52	10.55	10.81	11.00	11.66
12. North Simcoe Muskoka	20.73	19.81	19.91	19.89	18.05	18.09	16.92	15.66	15.83	15.40	15.23	15.81	14.86	14.63	13.83	14.39
13. North East	23.05	24.61	24.52	24.36	22.95	23.60	22.89	22.83	21.57	21.81	20.10	21.58	22.12	21.59	22.06	21.14
14. North West	27.75	28.07	29.49	32.05	30.14	28.75	27.96	26.24	27.08	28.39	25.13	26.05	24.63	24.04	23.35	22.85

Asthma Emergency Department Visit Crude Rates (cont'd)

	Asthma Emergency Department Visits Crude Rates (per 100 Active Asthma)															
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017*	2018*
<b>Public Health Unit</b>																
Algoma	34.59	34.14	32.76	31.81	28.77	29.27	26.68	27.88	23.83	23.15	22.04	22.70	20.73	21.83	25.86	25.28
Brant	13.51	13.15	12.78	13.34	12.61	12.75	13.37	12.75	14.29	14.59	15.70	16.95	17.93	15.24	16.86	16.67
Durham	10.97	11.75	10.98	10.78	9.76	9.57	9.78	8.87	9.22	9.69	8.51	8.49	8.40	7.97	8.34	8.16
Elgin-St Thomas	17.50	17.40	18.29	18.80	14.14	16.15	17.06	15.10	14.32	14.49	13.61	16.34	15.46	15.30	15.38	17.28
Grey-Bruce	42.54	38.68	39.75	39.81	40.82	40.52	39.38	35.48	38.64	38.23	37.97	38.37	35.45	35.33	39.80	36.65
Haldimand-Norfolk	18.05	17.61	17.70	16.76	16.10	17.04	14.77	16.53	14.92	17.80	17.10	15.99	18.03	14.77	14.99	14.26
Haliburton Kawartha, Pine Ridge	22.82	22.91	23.69	22.31	21.11	20.64	19.58	20.25	19.73	19.94	19.57	20.97	19.04	17.23	16.23	15.62
Halton	11.10	11.09	11.22	10.76	9.53	8.83	7.44	7.79	7.05	6.78	5.95	6.73	5.91	5.54	5.80	5.97
Hamilton	14.94	15.36	15.25	13.55	12.96	12.52	11.07	10.92	11.36	11.34	10.53	10.93	9.95	9.63	10.27	10.31
Hastings Prince Edward	26.63	27.61	27.99	28.20	24.97	24.37	20.90	21.40	20.32	23.07	19.38	19.31	19.42	20.74	20.69	19.21
Huron	37.05	39.39	38.14	44.54	45.50	46.10	42.88	44.75	42.40	36.06	36.78	38.33	33.21	30.51	35.24	32.09
Chatham-Kent	23.06	22.78	22.93	21.07	19.61	20.46	17.84	17.72	18.58	17.76	16.98	16.85	18.73	16.96	14.73	14.34
Kingston Frontenac, and Lennox and Addington	14.93	15.91	16.45	20.11	17.13	18.90	14.69	15.66	16.53	15.19	15.57	16.84	18.16	16.10	19.00	16.64
Lambton	20.30	17.65	20.80	18.01	18.82	18.21	16.65	15.58	15.76	15.53	14.10	18.68	18.10	15.33	13.65	17.21
Leeds, Grenville, Lanark	24.67	27.41	26.18	27.99	25.63	23.85	23.20	22.77	23.07	21.68	19.02	19.23	17.97	17.33	19.08	18.19
Middlesex-London	15.26	15.21	17.76	16.27	15.37	14.54	12.53	11.18	10.47	10.34	8.73	9.75	9.55	10.28	11.01	10.86
Niagara	18.30	18.83	17.66	16.85	14.97	14.41	14.12	12.75	11.64	12.15	10.30	10.90	10.45	10.05	9.10	9.16
North Bay Parry Sound	25.53	29.08	30.03	30.82	26.74	25.69	24.50	24.89	23.61	22.96	20.26	24.25	23.10	21.99	18.51	19.50
Northwestern	36.34	40.04	43.70	53.97	48.83	47.58	48.59	45.36	47.78	44.72	39.13	44.05	45.00	43.09	40.91	41.50
Ottawa	11.73	11.86	11.76	10.03	8.56	8.45	8.18	8.61	8.29	9.01	7.54	8.56	8.10	8.32	8.90	9.51
Oxford	30.15	29.16	29.92	28.30	25.63	25.19	26.98	24.94	23.75	24.77	22.53	20.33	25.36	22.63	25.00	23.80
Peel	9.05	9.36	9.40	8.58	7.48	7.38	7.08	6.98	6.52	6.73	6.14	6.78	6.56	6.47	7.80	7.28
Perth	33.35	29.97	33.98	29.76	29.09	28.70	21.56	22.38	21.05	19.12	20.29	22.97	18.48	18.92	21.58	20.59
Peterborough	17.57	19.38	18.67	19.88	17.41	20.32	16.37	16.15	17.23	17.11	16.04	18.10	16.37	14.67	14.55	13.05
Porcupine	39.86	40.51	37.41	35.64	31.40	32.70	36.61	33.71	37.51	38.34	35.53	37.63	42.61	36.25	36.89	37.77
Renfrew	30.19	28.43	34.44	30.96	29.85	32.37	32.80	27.91	26.79	25.46	26.08	25.98	23.00	24.79	21.95	20.31
Eastern Ontario	19.02	21.87	21.62	20.45	17.35	17.91	17.42	16.79	17.09	18.85	18.04	17.78	15.80	15.20	14.73	16.03
Simcoe Muskoka	20.00	19.41	19.18	19.05	17.18	17.34	16.51	15.28	15.26	14.84	14.68	14.65	14.30	14.11	13.29	13.62
Sudbury	11.90	13.32	13.98	12.09	13.06	14.28	12.34	12.95	12.45	13.08	11.97	12.89	13.21	14.08	14.26	12.89
Thunder Bay	24.31	22.84	23.82	23.73	22.94	21.78	20.17	20.13	20.70	23.38	20.42	20.38	18.27	18.32	18.14	16.93
Timiskaming	28.52	30.29	31.42	51.06	52.89	49.64	49.76	48.02	41.78	43.36	44.20	43.60	46.41	46.06	45.54	37.56
Waterloo	16.40	16.32	14.68	13.81	13.35	12.67	12.64	11.92	11.03	11.38	10.23	11.33	9.68	10.29	10.36	10.10
Wellington-Dufferin-Guelph	19.16	18.54	18.35	18.03	17.11	16.05	14.85	13.94	15.35	16.01	13.83	15.97	14.59	13.28	12.93	13.15
Windsor-Essex	9.73	8.07	7.18	7.82	7.38	7.32	6.72	6.44	5.86	6.55	5.95	5.56	4.98	4.55	4.16	4.45
York Region	7.30	8.45	7.82	7.15	6.17	5.83	5.20	5.44	5.13	5.36	5.00	5.21	4.85	4.89	5.24	5.20
Toronto	10.37	11.08	11.16	10.89	10.31	9.82	9.29	9.26	9.07	9.21	8.72	9.05	8.59	8.25	8.37	8.28
<b>Canadian Triage and Acuity Scale (CTAS) Score</b>																
1	0.08	0.08	0.10	0.10	0.14	0.14	0.15	0.17	0.17	0.18	0.18	0.21	0.20	0.22	0.23	0.38
2	2.44	3.05	3.44	3.22	3.16	3.25	3.03	3.12	3.09	3.21	3.07	3.44	3.23	3.24	3.42	3.29
3	7.40	7.40	7.18	6.79	6.06	5.85	5.53	5.35	5.25	5.36	4.88	5.05	4.86	4.64	4.73	4.70
4	3.53	3.30	3.04	3.04	2.64	2.56	2.36	2.12	2.00	1.99	1.70	1.76	1.65	1.53	1.53	1.37
5	0.72	0.63	0.58	0.57	0.45	0.38	0.27	0.26	0.22	0.21	0.18	0.14	0.14	0.12	0.19	0.25

\* Reporting period is from April 2003 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.

† Ontario Marginalization Index expressed in quintiles used as a proxy measure of socioeconomic status.

‡ Rural communities defined as those with fewer than 10,000 people.

Note: Asthma incidence and prevalence with missing LHIN, rurality, or PHU were excluded from the report

Asthma ED were captured from the main problem diagnosis code in NACRS

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