

Asthma-Related Hospitalizations

	Asthma-Related Hospitalizations																										
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021*	2022*
Age Group																											
All	50194	52020	55441	58832	58626	60592	51709	48541	48575	46767	46862	44989	46746	48815	50377	52137	54153	55495	59268	56438	55587	56945	54828	54968	39544	46672	56082
0-4	8786	8429	8100	7741	7403	7186	6362	5974	5404	5291	5013	4065	4112	4936	4281	4732	4348	4092	4575	4207	3911	3855	3734	3689	433	2153	5268
5-9	1282	1303	1397	1472	1351	1318	1155	1034	1078	1130	864	780	767	1072	928	990	864	797	1046	881	877	863	777	855	182	262	951
10-14	598	612	643	690	732	792	551	547	576	652	549	513	486	596	554	556	514	466	644	520	528	486	432	464	216	292	474
15-19	536	490	509	596	578	604	523	523	511	483	490	532	569	625	600	556	627	641	712	603	660	602	551	535	351	407	453
20-29	1209	1164	1258	1355	1258	1323	1041	924	1014	937	880	978	1014	1107	1116	1155	1288	1472	1469	1504	1517	1763	1721	1846	1401	1568	1586
30-39	2184	2176	2357	2509	2504	2449	1883	1731	1608	1594	1531	1512	1505	1683	1652	1801	1783	1920	2048	1997	2054	2067	2262	2224	1978	2425	2424
40-49	3052	3245	3464	3922	4039	4355	3323	3161	3235	3154	3248	3141	3406	3662	3484	3526	3507	3607	3582	3473	3309	3420	3299	3303	2718	3125	2964
50-59	4512	4677	5508	6030	6138	6437	5216	4960	5246	5145	5348	5376	5664	6057	6300	6655	6988	7589	7891	7818	7534	7384	7154	7206	5618	6320	6268
60-69	8822	9392	9781	10121	9956	10109	8500	8139	8088	7629	7875	7850	8460	8615	9165	9716	10293	10667	11095	11214	11102	11403	10960	10827	8675	9754	10943
70+	19213	20532	22424	24396	24667	26019	23155	21548	21815	20752	21064	20242	20763	20462	22297	22450	23941	24244	26206	24221	24095	25102	23938	24019	17972	20366	24751
Sex																											
Female	24908	26253	28754	30811	30745	32047	26919	25550	25985	25106	25200	24242	25593	26796	28124	29116	30560	31502	34013	32173	31986	32506	31428	31272	22477	26607	31860
Male	25286	25767	26687	28021	27881	28545	24790	22991	22590	21661	21662	20747	21153	22019	22253	23021	23593	23993	25255	24265	23601	24439	23400	23696	17067	20065	24222
Material Resources Quintile[†]																											
Q1 (least marginalized)	5656	6198	6751	7243	7637	8242	6995	6505	6708	6855	6833	6973	7231	6449	6753	7041	7490	7542	9104	8903	8880	9057	8800	7849	5476	6573	8211
Q2	7829	8164	8783	9546	9442	9804	8269	7904	7903	7516	7772	7623	7875	8035	8300	8656	8794	8963	10186	9593	9381	9960	9380	9585	6786	8279	10143
Q3	9764	9866	10616	11448	11115	11523	9853	9136	9044	8618	8529	8274	8430	9112	9484	9530	10175	10088	11059	10304	10295	10484	9949	10269	7379	8746	10853
Q4	11178	11553	12584	12952	12865	12959	11249	10850	10166	9828	9658	9067	9550	10460	10695	11162	11264	12030	12552	11838	11441	11761	11184	11310	8021	9456	11138
Q5 (most marginalized)	13904	14241	14628	15429	15276	15679	13288	12149	13572	12920	13078	12156	12752	14199	14592	15218	15861	16324	15805	15269	15062	15155	14995	15552	11625	13322	15270
Income Quintile																											
Q1 (lowest)	13555	13893	14391	15717	15604	16079	13731	12738	13027	12511	12576	11605	12388	12805	12828	13614	13804	14212	16707	15966	15969	15973	15831	16325	12183	13774	16118
Q2	11141	11485	12155	13507	13260	13618	11485	10675	10695	10004	10290	9633	9956	10333	10682	10890	11442	11865	13174	12286	12089	12625	12039	12096	8684	10146	12102
Q3	9661	9989	10949	11188	11179	11345	10051	9669	9029	8975	8900	8673	8857	9429	9871	9986	10408	10561	11150	10459	10370	10705	10168	9972	7038	8567	10200
Q4	8423	8814	9361	9775	9854	10237	8646	8190	8276	8004	7936	8007	8345	8716	9104	9420	9896	10140	9762	9353	9161	9294	8880	8754	6101	7566	9405
Q5 (highest)	7130	7572	8294	8376	8434	9038	7564	7049	7273	7030	6904	6878	6957	7299	7603	7937	8272	8424	8446	8342	7971	8319	7892	7792	5524	6596	8237
Rurality[‡]																											
Urban	40874	42644	45348	48749	48589	50413	42673	40158	40770	39548	39626	38183	39902	41783	43426	44938	46948	48173	52138	49471	48689	50174	48396	48720	35287	41755	49669
Rural	9320	9376	10093	10083	10037	10179	9036	8383	7805	7219	7236	6806	6844	7032	6951	7199	7205	7322	7130	6967	6898	6771	6432	6248	4257	4917	6413
Local Health Integration Network																											
1. Erie St. Clair	3258	3137	3524	3525	3553	3902	3329	3346	3123	3033	2947	2724	2938	2933	3185	3305	3420	3780	3569	3602	3306	3233	3114	3325	2623	3030	3586
2. South West	3599	3756	3889	4148	4089	4529	3766	3567	3263	3216	3035	2893	3015	3198	3343	3300	3708	3820	4051	4079	4125	4251	4081	3912	2844	3483	4238
3. Waterloo Wellington	2592	2686	2641	3032	2859	3042	2166	2432	2376	2406	2208	2097	2084	2093	2140	2282	2286	2347	2653	2396	2339	2547	2508	2192	1548	2032	2609
4. Hamilton Niagara Haldimand Brant	6097	6481	7021	7647	8089	7837	6535	6279	6326	6206	6020	5775	5774	5932	6195	6184	6347	6440	6767	6474	6188	6481	6149	6437	4420	5004	6182
5. Central West	2202	2559	2637	2881	2603	2635	2379	2195	2205	2178	2197	2222	2325	2664	2642	2852	2858	3052	3502	3099	3173	3286	3214	3205	2530	3383	3850
6. Mississauga Halton	3163	3313	3448	3606	3619	3821	3110	2940	2994	2848	3094	3046	3221	3412	3507	3459	3705	3661	3993	3625	3745	3792	3700	3785	2636	3167	3716
7. Toronto Central	4623	5101	5028	5159	4793	5044	4292	4077	3893	3629	3634	3747	4006	3952	4405	4241	4652	4782	5152	4816	5042	5173	5050	5161	3794	4223	4870
8. Central	4614	4884	5278	5537	5538	5647	4573	3960	4365	4351	4388	4351	4543	4915	5188	5495	5654	5848	6395	6253	6311	6479	6272	6526	4786	5954	6617
9. Central East	6299	6462	6763	7046	7086	7373	6564	6042	6110	5691	5848	5772	5938	6280	6083	6447	6419	6616	7167	7029	6901	7108	6894	6652	4941	5555	6842
10. South East	2562	2474	2507	2717	2595	2646	2143	2060	2005	1987	2083	1861	1953	2061	2117	2322	2538	2317	2522	2617	2671	2692	2523	2498	1874	2138	2692
11. Champlain	4585	4812	5293	5376	5710	5861	5020	4901	5010	4849	4922	4476	4707	4919	5144	5295	5506	5442	6023	5590	5154	5294	5073	5056	3291	3875	4667
12. North Simcoe Muskoka	1841	1709	2018	2384	2309	2437	2195	2037	2072	1953	1989	1874	1928	1961	2065	2265	2285	2215	2179	2275	2050	2182	2187	2202	1454	1597	2056
13. North East	3199	3197	3728	3995	4027	4128	3838	3404	3510	3159	3238	2986	3104	3255	3088	3469	3585	4005	4186	3368	3344	3216	3009	2877	2099	2383	3036
14. North West	1560	1449	1666	1779	1756	1690	1799	1301	1323	1261	1259	1165	1210	1240	1275	1221	1190	1170	1109	1215	1238	1211	1054	1140	704	848	1121

Asthma-Related Hospitalizations (cont'd)

Public Health Unit	Asthma-Related Hospitalizations																										
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021*	2022*
Algoma	662	724	764	890	901	890	698	552	527	574	545	482	551	594	537	594	623	692	848	730	603	537	566	502	423	440	517
Brant	1083	1153	1188	1118	1041	1084	865	864	775	725	776	693	691	760	713	655	752	664	859	825	794	802	827	825	587	613	814
Durham	2067	2132	2329	2514	2499	2726	2266	2054	2154	2154	2200	2269	2384	2435	2307	2602	2490	2605	2896	2802	2810	2811	2599	2606	1887	2179	2513
Elgin-St Thomas	547	505	528	539	510	503	396	386	337	318	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Grey-Bruce	951	1004	947	958	999	936	813	807	782	663	691	616	629	657	594	590	704	622	697	651	787	753	706	646	438	529	663
Haldimand-Norfolk	594	645	716	723	790	792	696	672	662	656	631	660	605	584	615	587	579	663	590	583	525	461	469	537	343	457	582
Haliburton Kawartha, Pine Ridge	1142	1195	1225	1334	1191	1330	1156	1146	1092	1029	926	899	871	943	928	974	961	973	1086	1068	1085	1022	1046	1032	759	792	1126
Halton	1281	1387	1525	1611	1817	1797	1570	1340	1420	1484	1426	1416	1465	1545	1591	1564	1601	1633	1846	1694	1769	1857	1785	1816	1287	1387	1607
Hamilton	1676	1856	2136	2567	2794	2637	2073	2084	2159	2231	2111	2084	2164	2215	2302	2407	2364	2579	2489	2375	2274	2358	2158	2270	1566	1812	2281
Hastings Prince Edward	1138	1078	1014	1098	1029	1061	838	837	773	731	785	647	756	737	759	803	842	853	1001	1050	1003	1009	922	918	695	784	1075
Huron	473	462	428	540	501	563	473	410	328	329	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chatham-Kent	854	862	860	925	832	913	740	744	698	621	562	548	574	583	550	542	556	595	666	683	619	557	530	505	328	441	513
Kingston Frontenac, and Lennox and Addington	745	694	800	872	826	738	571	556	564	568	593	576	536	596	665	734	846	748	802	774	842	848	850	812	599	651	827
Lambton	833	770	820	790	837	908	793	772	760	793	741	656	596	650	732	960	934	1021	901	862	755	680	604	610	603	587	636
Leeds, Grenville, Lanark	804	825	860	947	923	1072	938	875	845	846	893	836	842	922	850	998	1003	870	872	954	955	968	921	952	671	789	925
Middlesex-London	978	1122	1219	1351	1339	1631	1348	1264	1197	1302	1174	1088	1180	1293	1387	1475	1656	1756	1891	1888	1856	1871	1951	1736	1366	1682	2029
Niagara	2285	2342	2476	2666	2737	2683	2380	2165	2193	2023	2025	1903	1904	1912	2073	2048	2177	2041	2223	2120	2057	2214	2032	2165	1455	1678	1975
North Bay Parry Sound	634	616	813	889	806	887	785	762	764	650	632	640	648	686	673	667	702	818	762	662	668	710	555	567	440	508	681
Northwestern	568	518	601	617	616	602	578	426	480	436	424	327	408	351	301	297	339	282	289	308	298	293	259	248	142	181	289
Ottawa	2301	2535	2768	2933	3092	3414	2791	2721	2739	2652	2712	2469	2570	2727	2884	2975	3159	3068	3437	3155	2927	3063	2897	2877	1939	2189	2658
Oxford	422	432	429	495	428	575	452	419	392	387	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Peel	3372	3596	3698	3993	3772	3861	3313	3191	3215	3034	3177	3091	3407	3821	3805	3927	4109	4226	4744	4195	4287	4511	4416	4419	3299	4247	4960
Perth	320	299	359	343	348	352	294	315	281	268	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Peterborough	861	807	897	917	1019	1004	972	995	917	834	856	717	800	848	749	723	758	785	813	802	801	881	928	853	605	616	885
Porcupine	591	424	628	706	699	662	826	713	865	710	743	691	742	705	666	624	622	662	750	681	661	539	586	570	381	381	476
Renfrew	855	816	883	819	790	834	678	681	747	708	681	614	679	684	734	649	672	716	787	755	661	667	644	552	302	415	551
Eastern Ontario	1269	1302	1437	1399	1611	1350	1308	1248	1308	1282	1305	1162	1245	1280	1332	1414	1489	1487	1595	1469	1371	1375	1330	1376	909	1137	1253
Simcoe Muskoka	2084	1959	2323	2708	2586	2749	2506	2333	2337	2219	2286	2133	2191	2229	2380	2614	2609	2523	2495	2562	2342	2480	2474	2514	1648	1885	2390
Sudbury	1111	1235	1267	1196	1288	1353	1257	1103	1100	986	1051	895	899	1031	988	1317	1362	1552	1550	1096	1176	1168	1085	1042	722	904	1200
Thunder Bay	992	931	1065	1162	1142	1088	1221	875	844	826	835	838	802	890	977	924	853	889	820	907	940	918	795	892	562	667	832
Timiskaming	180	189	244	287	314	309	251	256	239	235	257	273	257	232	214	261	264	257	270	191	233	255	212	187	131	142	162
Waterloo	1788	1874	1874	2024	1921	2087	1304	1613	1574	1604	1385	1341	1350	1359	1375	1424	1424	1459	1610	1525	1468	1591	1502	1409	1012	1297	1627
Wellington-Dufferin-Guelph	918	1001	951	1205	1142	1141	1007	972	976	955	1019	912	874	937	924	1027	1057	1082	1233	1019	1000	1144	1194	982	642	873	1188
Windsor-Essex	1583	1517	1866	1820	1906	2101	1812	1844	1677	1632	1659	1527	1774	1711	1907	1808	1944	2175	2019	2065	1939	2011	1987	2216	1704	2013	2445
York Region	1886	2070	2297	2446	2506	2608	2054	1923	2156	2226	2223	2139	2350	2649	2779	2907	3028	3084	3477	3430	3529	3618	3402	3609	2601	3333	3842
Toronto	10346	11143	11206	11430	11074	11351	9686	8623	8698	8076	8310	8613	8747	8984	9690	9794	10308	10659	11453	10964	11015	11342	11126	11182	8454	9763	10960
Southwestern	.	.	.	.	.	.	.	.	.	.	680	713	712	721	795	698	847	937	934	1025	1003	1046	943	1012	666	865	1025
Huron Perth	.	.	.	.	.	.	.	.	.	.	548	521	543	544	601	554	519	519	563	568	534	585	527	529	378	435	575

*Reporting period is from April 1996 to March 2023. Data for 2021 and 2022 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 prevalence with missing LHIN, rurality, or PHU were excluded from the report.

Asthma-related hospitalization were extracted from both CIHI-DAD and CIHI SDS with asthma diagnosis in all diagnosis types.

PHU of Elgin and St. Thomas (2231) and Oxford Health Unit (2252) were merged in 2006 onwards at ICES, Ontario and now the PHU is named Southwestern Public Health (4913).

PHU of Huron (2239) and Perth (2254) were merged in 2006 onwards at ICES, Ontario and now the PHU is named Huron Perth Public Health (5183).

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