

N82 – Niagara Profile: Emergency Department Care

Indicators	City of Toronto			Toronto Central LHIN			Niagara			
	Males	Females	Both sexes	Males	Females	Both sexes	Males (95% CI)	Females (95% CI)	Both sexes (95% CI)	Rate Ratio**
Demographics ***										
Total Population Age 0-4	68,780	65,600	134,380	28,890	27,600	56,490	215	215	430	
Total Population Age 5-19	215,715	203,795	419,510	81,570	77,890	159,460	410	395	805	
Total Population Age 20-44	471,380	497,960	969,340	224,185	231,545	455,730	4,135	4,015	8,150	
Total Population Age 45-64	294,840	322,830	617,670	130,750	138,995	269,745	1,165	1,200	2,365	
All Emergency Department (ED) visits (2009) †										
Population Age 0-4										
# of ED visits	36,999	28,846	65,845	15,132	11,909	27,041	153	177	330	
Rate of ED visits per 1,000 population per year	537.9	439.7	490.0	523.8	431.5	478.7	711.6 (651.1-772.2)	823.3 (772.3-874.2)	767.4 (727.5-807.4)	1.57 H
% of the population with one or more ED visits per year	34.1	29.2	31.7	33.2	28.6	31.0	47.0 (34.4-59.6)	52.1 (38.2-66.0)	49.5 (40.2-58.9)	1.56 H
Population Age 5-19										
# of ED visits	50,769	43,276	94,045	20,649	17,985	38,634	144	157	301	
Rate of ED visits per 1,000 population per year	235.4	212.4	224.2	253.1	230.9	242.3	351.2 (305.0-397.4)	397.5 (349.2-445.7)	373.9 (340.5-407.3)	1.67 H
% of the population with one or more ED visits per year	17.3	15.0	16.2	18.3	15.8	17.1	25.4 (19.7-31.0)	25.8 (20.0-31.6)	25.6 (21.5-29.6)	1.58 H
Population Age 20-44										
# of ED visits	114,073	132,273	246,346	59,363	63,776	123,139	1,515	1,778	3,293	
Rate of ED visits per 1,000 population per year	242.0	265.6	254.1	264.8	275.4	270.2	366.4 (351.7-381.1)	442.8 (427.5-458.2)	404.0 (393.4-414.7)	1.59 H
% of the population with one or more ED visits per year	15.6	16.9	16.3	16.3	17.3	16.8	22.6 (20.9-24.2)	27.1 (25.3-29.0)	24.8 (23.6-26.1)	1.53 H
Population Age 45-64										
# of ED visits	88,281	89,222	177,503	45,062	40,194	85,256	700	708	1,408	
Rate of ED visits per 1,000 population per year	299.4	276.4	287.4	344.6	289.2	316.1	600.9 (572.7-629.0)	590.0 (562.2-617.8)	595.3 (575.6-615.1)	2.07 H
% of the population with one or more ED visits per year	17.8	17.6	17.7	18.9	17.6	18.2	28.0 (24.4-31.6)	28.8 (25.2-32.4)	28.4 (25.9-31.0)	1.61 H

CI Confidence Interval.

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

** Rate ratios for both sexes were created by dividing the local area rate by the City of Toronto aggregate rate.

*** Denominator: Based on 2006 Census population estimates, Statistics Canada.

† All unscheduled ED visits. Data source: National Ambulatory Care Reporting System (NACRS), Canadian Institute for Health Information (CIHI).

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Demographics ***										
Total Population Age 65-74	80,785	98,145	178,930	31,755	38,280	70,035	230	205	435	
Total Population Age 75+	68,060	104,610	172,670	26,385	43,330	69,715	110	115	225	
Total Population	1,199,560	1,292,940	2,492,500	523,535	557,640	1,081,175	6,265	6,145	12,410	
All Emergency Department (ED) visits (2009) ±										
Population Age 65-74										
# of ED visits	28,857	32,242	61,099	12,838	13,486	26,324	153	110	263	
Rate of ED visits per 1,000 population per year	357.2	328.5	341.5	404.3	352.3	375.9	665.2 (604.2-726.2)	536.6 (468.3-604.8)	604.6 (558.6-650.5)	1.77 H
% of the population with one or more ED visits per year	20.7	20.1	20.4	22.4	21.0	21.7	30.4 (21.9-39.0)	32.2 (22.8-41.6)	31.3 (24.9-37.6)	1.53 H
Population Age 75+										
# of ED visits	43,187	61,793	104,980	17,504	25,792	43,296	85	124	209	
Rate of ED visits per 1,000 population per year	634.5	590.7	608.0	663.4	595.2	621.0	772.7 (694.4-851.0)	1,078.3 (1,025.2-1,131.4)	928.9 (895.3-962.5)	1.53 H
% of the population with one or more ED visits per year	34.1	33.4	33.7	34.8	33.1	33.7	44.5 (27.8-61.3)	59.1 (37.1-81.1)	52.0 (38.4-65.6)	1.54 H
Total Population										
# of ED visits	362,166	387,652	749,818	170,548	173,142	343,690	2,750	3,054	5,804	
Rate of ED visits per 1,000 population per year	301.9	299.8	300.8	325.8	310.5	317.9	438.9 (417.0-460.8)	497.0 (472.1-521.8)	467.7 (451.2-484.2)	1.55 H
Age-Adjusted rate of visits per 1,000 †	293.9	292.3	293.1	319.1	303.5	311.2	486.6 (471.9-501.3)	540.6 (525.4-555.8)	513.8 (503.4-524.2)	1.75 H
% of the population with one or more ED visits per year	18.9	19.0	18.9	19.5	19.2	19.3	25.3 (27.4-30.6)	29.0 (23.8-26.7)	27.1 (26.1-28.2)	1.43 H
Age-Adjusted % of the population with an ED visit †	19.2	19.3	19.2	19.0	19.5	19.3	27.9 (26.5-29.3)	31.7 (30.3-33.1)	29.7 (28.7-30.6)	1.54 H

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	Males	Females	Both sexes	Males	Females	Both sexes	Males (95% CI)	Females (95% CI)	Both sexes (95% CI)	Rate Ratio**
Low Triage^a Emergency Department (ED) visits (2009)[±]										
Population Age 0-4										
# of ED visits	36,999	28,846	65,845	15,132	11,909	27,041	153	177	330	
# of Low Triage visits	10,135	8,471	18,606	4,310	3,726	8,036	43	66	109	
Ratio of low to high Triage visits	0.38	0.42	0.40	0.41	0.46	0.43	0.40 (0.28-0.52)	0.61 (0.46-0.76)	0.51 (0.41-0.60)	1.27 H
% of all ED visits that are Low Triage	27.4	29.4	28.3	28.5	31.3	29.7	28.1 (18.2-38.0)	37.3 (25.9-48.6)	33.0 (25.5-40.6)	1.17 NS
Population Age 5-19										
# of ED visits	50,769	43,276	94,045	20,649	17,985	38,634	144	157	301	
# of Low Triage visits	22,320	17,595	39,915	8,622	7,106	15,728	60	64	124	
Ratio of low to high Triage visits	0.79	0.69	0.75	0.73	0.66	0.70	0.76 (0.53-0.99)	0.70 (0.50-0.90)	0.73 (0.57-0.88)	0.97 NS
% of all ED visits that are Low Triage	44.0	40.7	42.4	41.8	39.5	40.7	41.7 (27.9-55.5)	40.8 (27.8-53.7)	41.2 (31.7-50.7)	0.97 NS
Population Age 20-44										
# of ED visits	114,073	132,273	246,346	59,363	63,776	123,139	1,515	1,778	3,293	
# of Low Triage visits	46,788	45,261	92,049	24,137	23,245	47,382	647	744	1,391	
Ratio of low to high Triage visits	0.70	0.52	0.60	0.69	0.58	0.63	0.76 (0.69-0.83)	0.73 (0.67-0.79)	0.75 (0.70-0.79)	1.24 H
% of all ED visits that are Low Triage	41.0	34.2	37.4	40.7	36.4	38.5	42.7 (38.4-47.1)	41.8 (37.9-45.8)	42.2 (39.3-45.2)	1.13 H
Population Age 45-64										
# of ED visits	88,281	89,222	177,503	45,062	40,194	85,256	700	708	1,408	
# of Low Triage visits	27,429	27,774	55,203	13,968	12,762	26,730	266	256	522	
Ratio of low to high Triage visits	0.45	0.46	0.45	0.45	0.47	0.46	0.62 (0.54-0.71)	0.58 (0.50-0.65)	0.60 (0.55-0.66)	1.32 H
% of all ED visits that are Low Triage	31.1	31.1	31.1	31.0	31.8	31.4	38.0 (32.2-43.8)	36.2 (30.6-41.7)	37.1 (33.1-41.1)	1.19 H

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* Estimates based on fewer than 20 events are likely to be unstable and imprecise.

** Rate ratios for both sexes were created by dividing the local area statistic by the City of Toronto statistic.

^a Low triage was defined as Canadian Triage and Acuity Scale (CTAS) levels 4 and 5 excluding those who were subsequently admitted to hospital.

[±] All unscheduled ED visits. Data source: National Ambulatory Care Reporting System (NACRS), Canadian Institute for Health Information (CIHI).

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Low Triage^a Emergency Department (ED) visits (2009)[±]										
Population Age 65-74										
# of ED visits	28,857	32,242	61,099	12,838	13,486	26,324	153	110	263	
# of Low Triage visits	6,215	7,807	14,022	2,844	3,278	6,122	47	30	77	
Ratio of low to high Triage visits	0.28	0.32	0.30	0.29	0.33	0.31	0.45 (0.32-0.58)	0.38 (0.24-0.52)	0.42 (0.32-0.52)	1.40 H
% of all ED visits that are Low Triage	21.5	24.2	22.9	22.2	24.3	23.3	30.7 (20.2-41.3)	27.3 (15.8-38.7)	29.3 (21.5-37.1)	1.28 NS
Population Age 75+										
# of ED visits	43,187	61,793	104,980	17,504	25,792	43,296	85	124	209	
# of Low Triage visits	6,727	9,938	16,665	2,680	4,038	6,718	19*	23	42	
Ratio of low to high Triage visits	0.19	0.19	0.19	0.18	0.19	0.19	0.29* (0.16-0.41)	0.23 (0.15-0.32)	0.25 (0.18-0.33)	1.33 NS
% of all ED visits that are Low Triage	15.6	16.1	15.9	15.3	15.7	15.5	22.4* (10.9-33.8)	18.5 (10.1-26.9)	20.1 (13.3-26.9)	1.27 NS
Total Population										
# of ED visits	362,166	387,652	749,818	170,548	173,142	343,690	2,750	3,054	5,804	
# of Low Triage visits	119,614	116,846	236,460	56,561	54,155	110,716	1,082	1,183	2,265	
Ratio of low to high Triage visits	0.50	0.44	0.47	0.50	0.46	0.48	0.66 (0.62-0.71)	0.64 (0.60-0.69)	0.65 (0.62-0.68)	1.40 H
Age-Adjusted ratio of low to high Triage visits ‡	0.61	0.51	0.55	0.60	0.53	0.56	0.70 (0.63-0.78)	0.67 (0.59-0.75)	0.65 (0.61-0.69)	1.17 H
% of all ED visits that are Low Triage	33.0	30.1	31.5	33.2	31.3	32.2	39.3 (36.3-42.4)	38.7 (35.9-41.6)	39.0 (37.0-41.1)	1.24 H
Age-Adjusted % of all ED visits that are Low Triage †	36.3	33.2	34.6	36.2	33.9	34.9	38.8 (35.8-41.9)	38.3 (35.2-41.5)	38.2 (36.1-40.3)	1.10 H

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