

Supplemental Table S1. Rates of Major Amputation related to Diabetes or Peripheral Artery Disease

Region ^a	Major Amputations related to Diabetes or Peripheral Artery Disease per 100,000 person-quarters ^a (95% Confidence Interval) ^b
6- MISSISSAUGA HALTON	2.53 (2.30-2.75)
8- CENTRAL	3.23 (3.02-3.44)
5- CENTRAL WEST	4.01 (3.67-4.35)
7- TORONTO CENTRAL	4.11 (3.81-4.42)
11- CHAMPLAIN	4.37 (4.08-4.66)
9- CENTRAL EAST	5.37 (5.07-5.67)
1- ERIE ST. CLAIR	5.40 (4.93-5.88)
3- WATERLOO WELLINGTON	5.70 (5.24-6.16)
12- NORTH SIMCOE MUSKOKA	6.32 (5.72-6.92)
2- SOUTH WEST	6.58 (6.14-7.02)
10- SOUTH EAST	6.93 (6.33-7.53)
4- HAMILTON NIAGARA	7.20 (6.83-7.57)
13- NORTH-EAST	9.19 (8.55-9.83)
14- NORTH-WEST	11.77 (10.62-12.92)

^a Rate reflects average over 2007-2017 study period and among residents ≥ 40 years old

^b Ninety-five percent confidence intervals around the amputation rates were calculated assuming a negative binomial distribution accounting for recurrent events (i.e. repeat amputations in distinct quarters) over the study period (Glynn RJ, et al. Am J Epidemiol. 1993 Apr 1;137(7):776-86).

Supplemental Table S2. Major Amputee Cohort Characteristics by Region

Region ^a	No. of major amputees	Lowest income quintile - N (%)	Rural residence - N (%)	Comorbidity index ^b - Median (interquartile range)	Death on index amputation admission - N (%)
6- MISSISSAUGA HALTON	448	77 (17.2%)	<=5 (<=1.1%)	13 (6-24)	53 (11.8%)
8- CENTRAL	884	219 (24.8%)	11 (1.2%)	12 (6-21)	118 (13.3%)
5- CENTRAL WEST	471	97 (20.6%)	19 (4.0%)	13 (5-21)	63 (13.4%)
7- TORONTO CENTRAL	785	269 (34.9%)	0 (0.0%)	14 (6-23)	82 (10.4%)
11- CHAMPLAIN	925	232 (25.3%)	183 (19.8%)	13 (5-21)	116 (12.5%)
9- CENTRAL EAST	1,424	438 (30.8%)	120 (8.4%)	13 (4-21)	166 (11.7%)
1- ERIE ST. CLAIR	597	172 (29.3%)	77 (12.9%)	11 (4-18)	65 (10.9%)
3- WATERLOO WELLINGTON	642	165 (25.7%)	75 (11.7%)	12 (4-20)	63 (9.8%)
12- NORTH SIMCOE MUSKOKA	510	118 (23.4%)	198 (38.9%)	12 (3-22)	48 (9.4%)
2- SOUTH WEST	1,075	295 (28.0%)	374 (34.8%)	13 (4-22)	107 (10.0%)
10- SOUTH EAST	641	205 (32.2%)	277 (43.2%)	12 (4-21)	60 (9.4%)
4- HAMILTON NIAGARA	1,794	567 (32.0%)	103 (5.7%)	12 (5-20)	200 (11.1%)
13- NORTH-EAST	988	323 (33.9%)	390 (39.5%)	11 (3-19)	120 (12.1%)
14- NORTH-WEST	474	160 (34.3%)	192 (40.5%)	11 (3-18)	55 (11.6%)

^a Regions are ordered from lowest to highest major amputation rate

^b Aggregated Diagnosis Group Comorbidity Index

Supplemental Table S3. Regional provider counts, per 100,000 residents at least 40 years old, in 2013

Region ^a	Vascular Surgeons	Orthopedic Surgeons	General Surgeons	Vascular, Orthopedic or General Surgeons	Podiatrists-Chiropractors
6- MISSISSAUGA HALTON	0.70	5.61	9.63	15.94	20.49
8- CENTRAL	0.56	8.31	11.90	20.77	14.82
5- CENTRAL WEST	0.00	5.78	8.29	14.07	18.59
7- TORONTO CENTRAL	1.86	15.02	16.54	33.42	36.63
11- CHAMPLAIN	1.23	10.89	14.27	26.39	3.68
9- CENTRAL EAST	0.50	7.77	9.39	17.66	14.40
1- ERIE ST. CLAIR	0.30	6.53	12.17	18.99	12.76
3- WATERLOO WELLINGTON	0.83	6.64	9.96	17.44	12.73
12- NORTH SIMCOE MUSKOKA	0.40	5.53	11.46	17.38	14.22
2- SOUTH WEST	0.80	12.44	14.25	27.49	9.63
10- SOUTH EAST	0.72	12.56	9.69	22.97	25.12
4- HAMILTON NIAGARA	0.93	9.21	13.75	23.89	14.15
13- NORTH-EAST	0.00	8.50	14.80	23.30	11.02
14- NORTH-WEST	0.00	9.73	15.40	25.13	7.30

^a Regions are ordered from lowest to highest major amputation rate

Supplemental Table S4. Physician and Publicly-Funded Podiatry Visits within 30-365 days prior to Index Amputation Admission

Region ^a	No. of Amputees	GP ^b	Vascular Surgeon	Orthopedic Surgeon	General Surgeon	Vascular, Orthopedic or General Surgeon	Other Specialist Physician	Publicly-Funded Podiatry ^c
		At least 1 Visit - N (%)						
6- MISSISSAUGA HALTON	448	418 (93.3%)	258 (57.6%)	103 (23.0%)	79 (17.6%)	328 (73.2%)	419 (93.5%)	6 (1.3%)
8- CENTRAL	884	843 (95.4%)	451 (51.0%)	222 (25.1%)	231 (26.1%)	630 (71.3%)	833 (94.2%)	74 (8.4%)
5- CENTRAL WEST	471	440 (93.4%)	204 (43.3%)	102 (21.7%)	187 (39.7%)	325 (69.0%)	437 (92.8%)	15 (3.2%)
7- TORONTO CENTRAL	785	710 (90.4%)	445 (56.7%)	182 (23.2%)	79 (10.1%)	539 (68.7%)	726 (92.5%)	52 (6.6%)
11- CHAMPLAIN	925	868 (93.8%)	456 (49.3%)	178 (19.2%)	209 (22.6%)	621 (67.1%)	853 (92.2%)	7 (0.8%)
9- CENTRAL EAST	1,424	1,365 (95.9%)	775 (54.4%)	280 (19.7%)	221 (15.5%)	965 (67.8%)	1,320 (92.7%)	49 (3.4%)
1- ERIE ST. CLAIR	597	557 (93.3%)	267 (44.7%)	133 (22.3%)	163 (27.3%)	416 (69.7%)	556 (93.1%)	9 (1.5%)
3- WATERLOO WELLINGTON	642	623 (97.0%)	325 (50.6%)	161 (25.1%)	158 (24.6%)	448 (69.8%)	610 (95.0%)	44 (6.9%)
12- NORTH SIMCOE MUSKOKA	510	495 (97.1%)	148 (29.0%)	145 (28.4%)	170 (33.3%)	330 (64.7%)	484 (94.9%)	8 (1.6%)
2- SOUTH WEST	1,075	1,022 (95.1%)	426 (39.6%)	197 (18.3%)	335 (31.2%)	722 (67.2%)	1,003 (93.3%)	17 (1.6%)
10- SOUTH EAST	641	591 (92.2%)	267 (41.7%)	164 (25.6%)	100 (15.6%)	402 (62.7%)	583 (91.0%)	10 (1.6%)
4- HAMILTON NIAGARA	1,794	1,703 (94.9%)	792 (44.1%)	595 (33.2%)	511 (28.5%)	1,255 (70.0%)	1,687 (94.0%)	61 (3.4%)
13- NORTH-EAST	988	949 (96.1%)	581 (58.8%)	162 (16.4%)	426 (43.1%)	809 (81.9%)	935 (94.6%)	21 (2.1%)
14- NORTH-WEST	474	437 (92.2%)	26 (5.5%)	141 (29.7%)	180 (38.0%)	272 (57.4%)	452 (95.4%)	0 (0.0%)

^a Regions are ordered from lowest to highest major amputation rate

^b General Practitioner

^c The majority of podiatry and chiropody services are not publicly funded in Ontario

Supplemental Table S5. Health Services within 365 Days Prior to Index Amputation Admission

Region ^a	No. of Amputees	At least one Hospitalization	At least one ED ^b visit	Home care nursing	Revascularization - N (%)			Minor ^c Amputation	Total Health Care Costs ^d
		- N (%)	- N (%)	- N (%)	Open surgery	Endovascular	Open or endovascular	- N (%)	- Mean
6- MISSISSAUGA HALTON	448	317 (70.8%)	378 (84.4%)	310 (69.2%)	82 (18.3%)	73 (16.3%)	123 (27.5%)	44 (9.8%)	\$66,711
8- CENTRAL	884	619 (70.0%)	763 (86.3%)	631 (71.4%)	134 (15.2%)	119 (13.5%)	213 (24.1%)	91 (10.3%)	\$64,186
5- CENTRAL WEST	471	321 (68.2%)	398 (84.5%)	303 (64.3%)	58 (12.3%)	87 (18.5%)	113 (24.0%)	49 (10.4%)	\$64,183
7- TORONTO CENTRAL	785	521 (66.4%)	685 (87.3%)	532 (67.8%)	80 (10.2%)	118 (15.0%)	169 (21.5%)	64 (8.2%)	\$69,483
11- CHAMPLAIN	925	574 (62.1%)	793 (85.7%)	579 (62.6%)	102 (11.0%)	157 (17.0%)	209 (22.6%)	112 (12.1%)	\$69,310
9- CENTRAL EAST	1,424	866 (60.8%)	1,243 (87.3%)	980 (68.8%)	150 (10.5%)	116 (8.1%)	229 (16.1%)	167 (11.7%)	\$54,251
1- ERIE ST. CLAIR	597	398 (66.7%)	514 (86.1%)	475 (79.6%)	89 (14.9%)	46 (7.7%)	116 (19.4%)	122 (20.4%)	\$68,481
3- WATERLOO WELLINGTON	642	425 (66.2%)	537 (83.6%)	471 (73.4%)	88 (13.7%)	106 (16.5%)	157 (24.5%)	80 (12.5%)	\$53,128
12- NORTH SIMCOE MUSKOKA	510	340 (66.7%)	465 (91.2%)	392 (76.9%)	90 (17.6%)	41 (8.0%)	113 (22.2%)	61 (12.0%)	\$51,334
2- SOUTH WEST	1,075	724 (67.3%)	919 (85.5%)	800 (74.4%)	137 (12.7%)	80 (7.4%)	179 (16.7%)	194 (18.0%)	\$56,587
10- SOUTH EAST	641	373 (58.2%)	539 (84.1%)	427 (66.6%)	53 (8.3%)	46 (7.2%)	90 (14.0%)	98 (15.3%)	\$45,103
4- HAMILTON NIAGARA	1,794	1,196 (66.7%)	1,550 (86.4%)	1,326 (73.9%)	349 (19.5%)	179 (10.0%)	437 (24.4%)	165 (9.2%)	\$56,510
13- NORTH-EAST	988	683 (69.1%)	856 (86.6%)	645 (65.3%)	110 (11.1%)	33 (3.3%)	127 (12.9%)	201 (20.3%)	\$57,686
14- NORTH-WEST	474	319 (67.3%)	430 (90.7%)	231 (48.7%)	21 (4.4%)	13 (2.7%)	27 (5.7%)	52 (11.0%)	\$62,213

^a Regions are ordered from lowest to highest major amputation rate

^b ED – Emergency Department

^c Minor amputation – below ankle

^d Costs in 2017 Canadian dollars from the perspective of Ontario Ministry of Health & Long Term Care

Supplemental Table S6. Revascularization on Index Hospitalization

Region ^a	No. of amputees	Revascularization – N (%)		
		Open surgery	Endovascular	Open or endovascular
6- MISSISSAUGA HALTON	448	55 (12.3%)	60 (13.4%)	94 (21.0%)
8- CENTRAL	884	61 (6.9%)	80 (9.0%)	129 (14.6%)
5- CENTRAL WEST	471	56 (11.9%)	43 (9.1%)	88 (18.7%)
7- TORONTO CENTRAL	785	57 (7.3%)	46 (5.9%)	88 (11.2%)
11- CHAMPLAIN	925	127 (13.7%)	87 (9.4%)	189 (20.4%)
9- CENTRAL EAST	1,424	78 (5.5%)	92 (6.5%)	150 (10.5%)
1- ERIE ST. CLAIR	597	26 (4.4%)	54 (9.0%)	72 (12.1%)
3- WATERLOO WELLINGTON	642	38 (5.9%)	54 (8.4%)	78 (12.1%)
12- NORTH SIMCOE MUSKOKA	510	32 (6.3%)	38 (7.5%)	62 (12.2%)
2- SOUTH WEST	1,075	33 (3.1%)	77 (7.2%)	96 (8.9%)
10- SOUTH EAST	641	39 (6.1%)	37 (5.8%)	68 (10.6%)
4- HAMILTON NIAGARA	1,794	84 (4.7%)	211 (11.8%)	254 (14.2%)
13- NORTH-EAST	988	18 (1.8%)	62 (6.3%)	77 (7.8%)
14- NORTH-WEST	474	12 (2.5%)	14 (3.0%)	20 (4.2%)

^a Regions are ordered from lowest to highest major amputation rate