

APPENDIX 2. Supplemental tables

Table S1: Family Physician Characteristics 2005/06, 2012/13 and 2017/18 Ontario & Alberta

Characteristic	ONTARIO					ALBERTA				
	2005/06	2012/13	2017/18	Change		2005/06	2012/13	2017/18	Change	
				05/06 – 17/18					05/06 – 17/18	
				N	%				N	%
N	8,858	10,358	11,987	<u>3,129</u>	<u>35.3</u>	2,716	3,238	4,038	<u>1,322</u>	<u>48.7</u>
Census Population	12,528,663	13,390,632	14,070,141	<u>1,541,478</u>	<u>12.3</u>	3,321,768	3,874,548	4,241,100	<u>919,332</u>	<u>27.7</u>
Number of physicians per 10,000 population	7.1	7.7	8.5	<u>1.4</u>	<u>19.7</u>	8.2	8.4	9.5	<u>1</u>	<u>16.4</u>
Male (%)	5,723 (64.6%)	5,958 (57.5%)	6,328 (52.8%)	<u>605</u>	<u>10.5</u>	1,713 (63.1%)	1,979 (61.1%)	2,305 (57.1%)	<u>592</u>	<u>34.6</u>
Female (%)	3,135 (35.4%)	4,400 (42.5%)	5,659 (47.2%)	<u>2,524</u>	<u>80.5</u>	1,003 (36.9%)	1,259 (38.9%)	1,733 (42.9%)	<u>730</u>	<u>72.8</u>
Years Since Medical School Graduation (N (%))										
0-9 yrs (%)	1,122 (12.7%)	1,660 (16.0%)	2,840 (23.7%)	<u>1,718</u>	<u>153.1</u>	478 (17.6%)	508 (15.7%)	809 (20.0%)	<u>331</u>	<u>69.2</u>
10-19 yrs (%)	2,461 (27.8%)	2,065 (19.9%)	2,273 (19.0%)	<u>-188</u>	<u>-7.6</u>	787 (29.0%)	839 (25.9%)	1,098 (27.2%)	<u>311</u>	<u>39.5</u>
20-29 yrs (%)	2,679 (30.2%)	2,930 (28.3%)	2,730 (22.8%)	<u>51</u>	<u>1.9</u>	766 (28.2%)	853 (26.3%)	975 (24.1%)	<u>209</u>	<u>27.3</u>
30+ yrs (%)	2,596 (29.3%)	3,703 (35.8%)	4,144 (34.6%)	<u>1,548</u>	<u>59.6</u>	685 (25.2%)	1,038 (32.1%)	1,156 (28.6%)	<u>471</u>	<u>68.8</u>
International Medical Graduate*	-	-	-			984 (36.2%)	1,456 (45.0%)	1,968 (48.7%)	<u>984</u>	<u>100.0</u>
<p>Population estimates taken from StatsCan Table 17-10-0005-01 (Population estimates on July 1st, by age and sex (statcan.gc.ca)) for years 2005, 2012, 2017.</p> <p>*<u>Complete</u> data from Ontario on International Medical Graduates was not available for analysis for the years examined.</p>										

Table S2: Average Service Days by Sex and Years Since Medical School Graduation										
Ontario										
Female						Male				
Years Since Graduation	2005/06	2012/13	2017/18	Change in Average Service Days 2005/06 – 2017/18		2005/06	2012/13	2017/18	Change in Average Service Days 2005/06 – 2017/18	
				N	%				N	%
0-9	125.5	113	120.1	-5.4	-4.30%	168.9	141.5	151.5	-17.4	-10.30%
10-19	150.6	139.1	137.3	-13.3	-8.80%	189.2	169.1	165.8	-23.4	-12.40%
20-29	160.5	147.7	153.6	-6.9	-4.30%	195.4	175.7	178.3	-17.1	-8.80%
30+	159.3	146.4	143	-16.3	-10.20%	172	165.7	164.5	-7.5	-4.40%
Total	149.6	136.9	137.1	-12.5	-8.40%	182.7	166.3	165.2	-17.5	-9.60%
Alberta										
Female						Male				
Years Since Graduation	2005/06	2012/13	2017/18	Change in Average Service Days 2005/06 – 2017/18		2005/06	2012/13	2017/18	Change in Average Service Days 2005/06 – 2017/18	
				N	%				N	%
0-9	107.5	100.0	103.4	-4.2	-3.9%	144.4	123.2	133.9	-10.5	-7.3%
10-19	120.2	111.5	129.1	8.8	7.4%	162.8	149.1	172.6	9.8	6.0%
20-29	139.2	124.6	137.1	-2.1	-1.5%	170.8	157.3	171.7	0.9	0.5%
30+	150.4	120.9	115.5	-34.9	-23.2%	160.0	143.7	147.6	-12.4	-7.8%
Total	126.3	115.2	122.2	-4.2	-3.3%	161.8	145.6	157.0	-4.8	-2.9%

Appendix 2, as supplied by the authors. Appendix to McDonald T, Schultz SE, Green LA, et al. Family physician count and service provision in Ontario and Alberta between 2005/06 and 2017/18: a cross-sectional study. *CMAJ Open* 2023.
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Table S3: Mean Annual Service Days and Average Daily Patient Visit Volume 2005/06, 2012/13 and 2017/18 Ontario & Alberta						
	ONTARIO			ALBERTA		
	2005/06	2012/13	2017/18	2005/06	2012/13	2017/18
Service Days (mean ± sd)						
Service Days with 10 patients seen per day minimum	170.7 ± 71.7	153.9 ± 65.5	152.6 ± 67.7	157.0 ± 75.2	140.8 ± 74.6	147.8 ± 76.7
Average Service Days per week with 10 patients seen per day minimum	3.7 ± 1.6	3.4 ± 1.4	3.3 ± 1.5	3.9 ± 1.4	3.7 ± 1.4	3.7 ± 1.5
Average Daily Patient Visit Volume (mean ± sd)						
Average Daily Patient Visit Volume, Days With 10 or More Patients	24.4 ± 9.8	24.8 ± 12.9	23.3 ± 12.1	29.0 ± 14.5	28.0 ± 14.5	25.7 ± 13.0
Average Daily Patient Volume, Any Day With At Least 1 visit	21.6 ± 10.2	21.3 ± 11.6	20.1 ± 11.3	26.1 ± 15.8	24.2 ± 15.9	22.6 ± 14.1
Total Number of Patient Visits/Services						
Total Number of Patient Visits/Services, All Physicians Combined	41,984,217	45,042,068	49,168,825	12,806,317	13,808,231	17,728,099
Visits/Services Per Population (See Table S1 for population)	3.4	3.4	3.5	3.9	3.6	4.2

Table S4: Family Physician Total Count and Average Service Day by Geography - Alberta										
Total FP Counts						Average Service Day (10 patient minimum) per FP				
	2005/ 06	2012/ 13	2017/ 18	Change 2005/06 – 2017/18		2005/ 06	2012/ 13	2017/ 18	Change 2005/06 – 2017/18	
				N	%				N	%
Metro (500K+)	1,499	1,689	2,235	736	49.10%	149	139	151	2	1.07%
Mod. Metro Influence (100k-500k)	260	411	519	259	99.62%	163	143	152	-11	-6.57%
Urban 25k-100k	254	324	380	126	49.61%	172	145	144	-28	-16.36%
Mod. Urban Influence	24	33	32	8	33.33%	173	159	150	-22	-12.99%
Rural Centre (10K - < 25K)	126	145	155	29	23.02%	136	121	128	-8	-5.60%
Rural (<10K)	450	520	595	145	32.22%	137	113	114	-22	-16.39%
Rural Remote	84	94	94	10	11.90%	133	105	93	-40	-30.04%
Missing	19	22	28	9	47.37%	39	48	83	43	109.73%
Total	2,716	3,238	4,038	1,322	48.67%	149	134	142	-7	-4.47%

Table S5: Total Family Physician Count and Average Service Day by Geography - Ontario

	Total FP Counts					Average Service Days 10 Patient Minimum Per FP				
	2005/06	2012/13	2017/18	Change 2005/06 – 2017/18		2005/06	2012/13	2017/18	Change 2005/06 – 2017/18	
				N	%				N	%
1.5M+	3,785	4,516	5298	1,513	+40.0%	180	165	163	-17	-9.4%
500K- <1.5M	1,546	1,840	2108	562	+36.4%	153	141	141	-12	-7.8 %
100K - <500K	1,793	2,071	2370	577	+32.2%	176	155	153	-23	-
10K - < 100K	685	832	980	295	+43.1%	167	142	138	-29	17.4%
NonCMACA ¹ /Strong MIZ ²	238	275	328	90	+37.8%	176	145	135	-41	-
NonCMACA/Mod MIZ	317	360	389	72	+22.7%	154	133	130	-24	15.6%
NonCMACA/Weak MIZ	227	225	274	47	+20.7%	124	112	101	-23	-
Missing	-	-	-	-	-	168	148	140	-28	16.7%
TOTAL	8,591	10,119	11,747	3,156	+36.7%	171	153	153	-18	-

1. CMACA – census metropolitan area / census agglomerations 2. MIZ – census metropolitan influenced zone (See Appendix) (8).