

**Appendix** to Austin R, Wanzel KR. Supply versus demand: a review of application trends to Canadian surgical training programs. *Can J Surg* 2015

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**Table S1. Rank order of the change in average percentage of graduating medical school classes selecting a surgical specialty as their first choice residency program; 2008–13 versus 2002–07**

Rank	Undergraduate medical school	Program	Change (%)	p value	Rank	Undergraduate medical school	Program	Change (%)	p value
1	Memorial	U	1.602	0.007	40	McGill	E	-0.363	> 0.99
2	Saskatchewan	G	1.155	0.23	41	Calgary	P	-0.467	0.53
3	Western Ontario	N	0.950	0.012	42	Saskatchewan	N	-0.467	0.65
4	McMaster	G	0.945	0.020	43	McGill	O	-0.483	0.41
5	Alberta	P	0.917	0.08	44	Alberta	U	-0.496	0.74
6	Alberta	O	0.817	0.09	45	British Columbia	U	-0.581	0.40
7	Ottawa	O	0.650	0.21	46	Calgary	U	-0.647	0.65
8	Memorial	P	0.633	0.53	47	McGill	U	-0.715	0.42
9	Dalhousie	P	0.533	0.52	48	British Columbia	N	-0.733	0.12
10	British Columbia	G	0.521	0.30	49	Western Ontario	O	-0.750	0.45
11	Memorial	O	0.483	0.76	50	Ottawa	E	-0.766	0.49
12	Western Ontario	E	0.438	0.17	51	British Columbia	O	-0.767	0.36
13	Calgary	E	0.400	0.47	52	Western Ontario	U	-0.794	0.76
14	McMaster	U	0.353	0.18	53	Dalhousie	G	-0.794	0.88
15	Ottawa	P	0.350	0.36	54	British Columbia	P	-0.800	0.35
16	Toronto	N	0.283	0.49	55	Dalhousie	E	-0.844	0.72
17	Dalhousie	N	0.267	0.55	56	McMaster	E	-0.847	0.38
18	Calgary	N	0.250	0.64	57	McMaster	N	-0.900	0.07
19	Queen's	O	0.250	0.76	58	Manitoba	E	-0.915	0.29
20	Manitoba	U	0.200	0.72	59	Queen's	E	-0.983	0.06
21	Memorial	E	0.174	0.51	60	Alberta	N	-1.033	0.014
22	Manitoba	N	0.150	0.84	61	McGill	P	-1.117	0.07
23	McMaster	P	0.133	0.83	62	McMaster	O	-1.117	0.11
24	Saskatchewan	O	0.117	0.93	63	Western Ontario	G	-1.174	0.90
25	Dalhousie	U	0.102	0.66	64	Toronto	E	-1.198	0.033
26	Queen's	P	0.100	0.87	65	Memorial	G	-1.329	0.67
27	Queen's	N	0.100	0.82	66	Manitoba	G	-1.361	0.58
28	Toronto	O	0.067	0.92	67	McGill	G	-1.368	0.91
29	Dalhousie	O	0.033	0.98	68	Alberta	G	-1.458	0.66
30	Calgary	O	0.000	> 0.99	69	Toronto	P	-1.533	0.006
31	Saskatchewan	E	-0.013	0.72	70	Toronto	U	-1.648	0.012
32	Saskatchewan	U	-0.045	0.54	71	Alberta	E	-1.680	0.009
33	Western Ontario	P	-0.117	0.83	72	Manitoba	O	-1.700	0.09
34	British Columbia	E	-0.166	0.822	73	Queen's	G	-1.742	0.26
35	Ottawa	N	-0.167	0.61	74	Toronto	G	-1.939	0.38
36	Manitoba	P	-0.167	0.79	75	Calgary	G	-1.943	0.23
37	Saskatchewan	P	-0.183	0.89	76	Ottawa	U	-2.016	0.049
38	Memorial	N	-0.217	0.70	77	McGill	N	-2.067	0.019
39	Queen's	U	-0.242	0.59	78	Ottawa	G	-2.347	0.09

E = Otolaryngology; G = General surgery; N =Neurosurgery; O = Orthopedic surgery; P = Plastic surgery; U = Urology.

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**Table S2. Rank-order of the change in average percentage of graduating medical school classes selecting a surgical specialty as their first-choice residency program, by academic institution; 2008-2013 vs 2002-2007**

Alberta		Calgary		Dalhousie		Manitoba		McGill		McMaster		Memorial	
Program	Change	Program	Change	Program	Change	Program	Change	Program	Change	Program	Change	Program	Change
E	-1.680*	E	0.400	E	-0.844	E	-0.915	E	-0.363	E	-0.847	E	0.174
G	-1.458	G	-1.943	G	-0.794	G	-1.361	G	-1.368	G	0.945*	G	-1.329
N	-1.033*	N	0.250	N	0.267	N	0.150	N	-2.067*	N	-0.900	N	-0.217
O	0.817	O	0.000	O	0.033	O	-1.700	O	-0.483	O	-1.117	O	0.483
P	0.917	P	-0.467	P	0.533	P	-0.167	P	-1.117	P	0.133	P	0.633
U	-0.496	U	-0.647	U	0.102	U	0.200	U	-0.715	U	0.353	U	1.602*
Ottawa		Queens		Saskatchewan		Toronto		British Columbia		Western			
Program	Change	Program	Change	Program	Change	Program	Change	Program	Change	Program	Change		
E	-0.766	E	-0.983	E	-0.013	E	-1.198*	E	-0.166	E	0.438		
G	-2.347	G	-1.742	G	1.155	G	-1.939	G	0.521	G	-1.174		
N	-0.167	N	0.100	N	-0.467	N	0.283	N	-0.733	N	0.950*		
O	0.650	O	0.250	O	0.117	O	0.067	O	-0.767	O	-0.750		
P	0.350	P	0.100	P	-0.183	P	-1.533*	P	-0.800	P	-0.117		
U	-2.016*	U	-0.242	U	-0.045	U	-1.648*	U	-0.581	U	-0.794		

E = Otolaryngology; G = General surgery; N = Neurosurgery; O = Orthopedic surgery; P = Plastic surgery; U = Urology.  
 \* $p < 0.05$ .