

**APPENDIX**

<b>Supplementary Table 1. Baseline patient and renal colic characteristics by travel distance to surgical institution</b>			
	<b>Travel distance &lt;30 km</b>	<b>Travel distance 30–90 km</b>	<b>Travel distance &gt;90 km</b>
	n=100 124	n=17 485	n=9586
Age at index renal colic			
Mean ± SD	54.48±15.79	54.12±15.97	52.74±15.41
Median (IQR)	55 (44–66)	55 (44–66)	54 (42–64)
0–18	809 (1%)	281 (2%)	152 (2%)
19–39	17 279 (17%)	2930 (17%)	1748 (18%)
40–59	43 507 (43%)	7366 (42%)	4265 (44%)
60–79	33 022 (33%)	6127 (35%)	3155 (33%)
80 +	5507 (6%)	781 (4%)	266 (3%)
Gender			
Female	42 358 (42%)	7420 (42%)	3856 (40%)
Male	57 766 (58%)	10 065 (58%)	5730 (60%)
Neighbourhood income quintile			
1-lowest	19 328 (19%)	3029 (17%)	1720 (18%)
2	20 511 (20%)	3431 (20%)	1862 (19%)
3	19 680 (20%)	3727 (21%)	1905 (20%)
4	20 367 (20%)	3864 (22%)	1979 (21%)
5-highest	20 079 (20%)	3379 (19%)	2058 (21%)
Charlson Index			
0	88 498 (88%)	15 451 (88%)	8704 (91%)
1–2	8682 (9%)	1517 (9%)	661 (7%)
3 +	2944 (3%)	517 (3%)	221 (2%)
Region within Ontario			
Unknown	≤5 (0%)	≤5 (0%)	17 (0%)
A	6253 (6%)	1423 (8%)	1477 (15%)
B	6633 (7%)	2378 (14%)	449 (5%)
C	5358 (5%)	1177 (7%)	475 (5%)
D	11 965 (12%)	1752 (10%)	2114 (22%)
E	6224 (6%)	922 (5%)	432 (5%)

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F	6382 (6%)	697 (4%)	510 (5%)
G	9341 (9%)	77 (0%)	84 (1%)
H	14 908 (15%)	1034 (6%)	363 (4%)
I	11 775 (12%)	2751 (16%)	718 (7%)
J	3535 (4%)	1230 (7%)	374 (4%)
K	8326 (8%)	1814 (10%)	294 (3%)
L	3691 (4%)	1431 (8%)	378 (4%)
M	4019 (4%)	718 (4%)	1413 (15%)
N	1711 (2%)	79 (0%)	488 (5%)
Enrolled with a PCP	73,751 (74%)	13 346 (76%)	6594 (69%)
Remote history of stone surgery	1769 (2%)	351 (2%)	345 (4%)
Duration renal colic episode (days)			
<60	79 792 (80%)	13 637 (78%)	7603 (79%)
60 +	20 332 (20%)	3848 (22%)	1983 (21%)
ED visits during renal colic episode			
0	65 272 (65%)	10 681 (61%)	6333 (66%)
1	22 158 (22%)	3962 (23%)	1945 (20%)
2	7985 (8%)	1646 (9%)	740 (8%)
>2	4709 (5%)	1196 (7%)	568 (6%)
# PCP visits during renal colic episode			
0	47 203 (47%)	8805 (50%)	4972 (52%)
1	28 113 (28%)	4825 (28%)	2653 (28%)
2	12 503 (12%)	2079 (12%)	1056 (11%)
>2	12 305 (12%)	1776 (10%)	905 (9%)

Column percentages, may not add to 100% due to missing or unrepresented data. ED: emergency department; IQR: interquartile range, (25<sup>th</sup>–75<sup>th</sup>); PCP: primary care physician; SD: standard deviation.

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<b>Supplementary Table 2. Associations between patient and stone characteristics and reoperation</b>					
		<b>Unadjusted model</b>		<b>Adjusted model<sup>a</sup></b>	
	<b>Rate (%)</b>	<b>Odds ratio (95% CI)</b>	<b>p</b>	<b>Odds ratio (95% CI)</b>	<b>p</b>
Age at index date					
0–18	44.44	0.98 (0.87–1.10)	<0.001	0.96 (0.86–1.08)	<0.001
19–39	45.04	Reference	–	Reference	–
40–59	48.53	1.15 (1.12–1.19)	–	1.15 (1.12–1.19)	–
60–79	51.39	1.29 (1.25–1.33)	–	1.22 (1.18–1.26)	–
80+	52.12	1.33 (1.26–1.40)	–	1.17 (1.10–1.24)	–
Sex					
Female	48.28	0.95 (0.93–0.97)	<0.001	0.93 (0.91–0.95)	<0.001
Male	49.58	Reference	–	Reference	–
Distance (km)					
<30	49.95	Reference	<0.001	Reference	0.004
>30–90	47.93	0.92 (0.89–0.95)	–	0.96 (0.93–1.00)	–
>90	41.44	0.71 (0.68–0.74)	–	0.93 (0.89–0.98)	–
Charlson Index					
0	48.23	Reference	<0.001	Reference	<0.001
1–2	55.97	1.36 (1.31–1.42)	–	1.20 (1.15–1.25)	–
3 +	53.10	1.22 (1.14–1.30)	–	1.06 (0.99–1.13)	–
Remote history stone surgery					
No	48.98	0.91 (0.84–0.98)	0.02	0.86 (0.79–0.93)	<0.001
Yes	51.36	Reference	–	Reference	–
Surgery type					
SWL	35.78	0.55 (0.53–0.57)	<0.001	0.58 (0.56–0.60)	<0.001
PCNL	53.91	1.15 (1.10–1.20)	–	1.10 (1.05–1.15)	–
URS	50.53	Reference	–	Reference	–
Duration renal colic episode (days)					
<60	53.05	2.24 (2.18–2.31)	<0.001	2.35 (2.28–2.43)	<0.001
≥60	33.50	Reference	–	Reference	–
# ED visits during renal colic episode					

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0	47.88	0.95 (0.9–1.00)	<0.001	0.70 (0.67-0.74)	<0.001
1	51.39	1.09 (1.03–1.15)	–	0.89 (0.84-0.94)	–
2	51.65	1.10 (1.04–1.17)	–	0.96 (0.90-1.02)	–
>2	49.19	Reference	–	Reference	–
# PCP visits during renal colic episode					
0	50.26	1.47 (1.41–1.52)	<0.001	1.04 (1.00–1.09)	<0.001
1	50.70	1.49 (1.44–1.55)	–	1.10 (1.06–1.15)	–
2	48.31	1.36 (1.30–1.42)	–	1.11 (1.06–1.16)	–
>2	40.80	Reference	–	Reference	–

<sup>a</sup>Controlled in logistic regression for all covariates listed. ED: emergency department; PCP: primary care physician; PCNL: percutaneous nephrostolithotomy; SWL: shockwave lithotripsy; URS: ureteroscopy.