

## Supplemental Digital Content 2: Additional study data

**Table 1: Characteristics of study cohort by procedure category**

Characteristic	No. (%)		
	Ophthalmologic surgery	Low-risk surgery	Overall
All cases	759,644 (57.1%)	570,822 (42.9%)	1,330,466
Female sex*	431,963 (56.9%)	293,165 (51.4%)	725,128 (54.5%)
Age, mean (SD)*	70.8 ± 11.4	54.9 ± 16.9	64.0 ± 16.1
18-25	3,309 (0.4%)	30,594 (5.4%)	33,903 (2.5%)
26-35	5,865 (0.8%)	48,331 (8.5%)	54,196 (4.1%)
36-45	13,963 (1.8%)	88,090 (15.4%)	102,053 (7.7%)
46-55	47,114 (6.2%)	125,934 (22.1%)	173,048 (13.0%)
56-64	115,985 (15.3%)	103,703 (18.2%)	219,688 (16.5%)
65-74	253,444 (33.4%)	94,246 (16.5%)	347,690 (26.1%)
75-84	259,377 (34.1%)	63,054 (11.0%)	322,431 (24.2%)
≥ 85	60,587 (8.0%)	16,870 (3.0%)	77,457 (5.8%)
Residence*			
Rural	76,523 (10.1%)	58,625 (10.3%)	135,148 (10.2%)
Suburban	184,355 (24.3%)	141,839 (24.8%)	326,194 (24.5%)
Urban	493,190 (64.9%)	365,977 (64.1%)	859,167 (64.6%)
Missing	5,576 (0.7%)	4,381 (0.8%)	9,957 (0.7%)
Neighbourhood income quintile*			
Q1 (lowest)	148,154 (19.5%)	100,515 (17.6%)	248,669 (18.7%)
Q2	158,349 (20.8%)	110,989 (19.4%)	269,338 (20.2%)
Q3	152,246 (20.0%)	114,282 (20.0%)	266,528 (20.0%)
Q4	152,910 (20.1%)	123,024 (21.6%)	275,934 (20.7%)
Q5 (highest)	147,985 (19.5%)	122,012 (21.4%)	269,997 (20.3%)
Comorbidities			
Coronary artery disease*	30,923 (4.1%)	12,387 (2.2%)	43,310 (3.3%)
Atrial fibrillation/flutter*	18,766 (2.5%)	7,107 (1.2%)	25,873 (1.9%)
Other cardiac arrhythmia*	6,918 (0.9%)	2,711 (0.5%)	9,629 (0.7%)
Cardiac valvular disease*	4,171 (0.5%)	1,486 (0.3%)	5,657 (0.4%)
Cerebrovascular disease*	7,046 (0.9%)	2,384 (0.4%)	9,430 (0.7%)
Peripheral vascular disease*	6,104 (0.8%)	2,545 (0.4%)	8,649 (0.7%)
Venous thromboembolism*	1,385 (0.2%)	882 (0.2%)	2,267 (0.2%)
Heart failure*	68,101 (9.0%)	21,226 (3.7%)	89,327 (6.7%)
Myocardial infarction*	9,522 (1.3%)	3,532 (0.6%)	13,054 (1.0%)
Chronic renal disease*	10,406 (1.4%)	4,709 (0.8%)	15,115 (1.1%)
Liver disease*	1,646 (0.2%)	860 (0.2%)	2,506 (0.2%)
Anemia*	24,169 (3.2%)	11,149 (2.0%)	35,318 (2.7%)
Gastrointestinal bleeds*	8,373 (1.1%)	4,139 (0.7%)	12,512 (0.9%)
Other blood diseases*	4,307 (0.6%)	2,693 (0.5%)	7,000 (0.5%)
Asthma*	106,208 (14.0%)	88,488 (15.5%)	194,696 (14.6%)
COPD*	161,155 (21.2%)	76,975 (13.5%)	238,130 (17.9%)
Cardiac risk factors			
Diabetes*	239,617 (31.5%)	93,445 (16.4%)	333,062 (25.0%)
Hypertension*	516,816 (68.0%)	229,015 (40.1%)	745,831 (56.1%)

Supplemental digital content to: Kirkham KR, Wijeyesundera DN, Pendrith C, Ng R, Levinson W, Tu JV, Boozary A, Tepper J, Schull MJ, Bhatia RS. Preoperative Laboratory Investigations: Rates and Variability Prior to Low-risk Surgical Procedures

Characteristic	No. (%)		
	Ophthalmologic surgery	Low-risk surgery	Overall
Hyperlipidemia*	56,981 (7.5%)	22,329 (3.9%)	79,310 (6.0%)
Prior cardiac procedures			
Aortic valve replacement*	4,991 (0.7%)	1,777 (0.3%)	6,768 (0.5%)
Mitral valve replacement*	1,490 (0.2%)	507 (0.1%)	1,997 (0.2%)
Coronary revascularization*	49,443 (6.5%)	18,989 (3.3%)	68,432 (5.1%)
Device implantation*	14,749 (1.9%)	4,773 (0.8%)	19,522 (1.5%)
Surgical site*			
Inpatient procedure	2,502 (0.3%)	90,185 (15.8%)	92,687 (7.0%)
Same-day-surgery	757,142 (99.7%)	480,637 (84.2%)	1,237,779 (93.0%)
Preoperative consultation			
Anesthesia*	45,454 (6.0%)	107,537 (18.8%)	152,991 (11.5%)
Medical*	40,119 (5.3%)	29,606 (5.2%)	69,725 (5.2%)
Characterization of the study cohort as defined by all covariates. Values given as frequencies (%) unless stated otherwise.			
* = p-value < 0.05; SD = standard deviation; COPD = chronic obstructive pulmonary disorder			

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**Table 2: Annual proportions of preoperative laboratory investigations for overall cohort and by procedure category**

	Ophthalmologic surgery	Low-risk surgery	Overall
<b>Any blood work</b>			
2008	34.9% (34.7-35.1)	24.8% (24.5-25.0)	30.7% (30.5-30.9)
2009	35.6% (35.3-35.8)	26.0% (25.7-26.2)	31.4% (31.3-31.6)
2010	34.6% (34.3-34.8)	26.2% (26.0-26.5)	31.0% (30.8-31.2)
2011	31.2% (31.0-31.5)	26.3% (26.1-26.6)	29.1% (28.9-29.3)
2012	29.6% (29.3-29.8)	25.7% (25.4-26.0)	27.9% (27.7-28.0)
All years	33.3% (33.2-33.4)	25.8% (25.7-25.9)	30.1% (30.0-30.1)
<b>CBC</b>			
2008	27.1% (26.9-27.3)	20.4% (20.1-20.6)	24.3% (24.1-24.5)
2009	27.5% (27.2-27.7)	21.2% (21.0-21.4)	24.8% (24.6-24.9)
2010	26.6% (26.4-26.8)	21.6% (21.3-21.8)	24.5% (24.3-24.6)
2011	23.3% (23.1-23.5)	22.0% (21.7-22.2)	22.7% (22.5-22.9)
2012	22.1% (21.9-22.3)	21.5% (21.2-21.7)	21.8% (21.7-22.0)
All years	25.4% (25.3-25.5)	21.3% (21.2-21.4)	23.7% (23.6-23.7)
<b>PT</b>			
2008	7.1% (7.0-7.3)	4.8% (4.6-4.9)	6.1% (6.0-6.2)
2009	7.5% (7.3-7.6)	4.6% (4.5-4.7)	6.2% (6.1-6.3)
2010	6.9% (6.8-7.0)	5.0% (4.9-5.1)	6.1% (6.0-6.2)
2011	6.3% (6.2-6.4)	5.0% (4.9-5.2)	5.7% (5.7-5.8)
2012	5.7% (5.5-5.8)	5.2% (5.0-5.3)	5.4% (5.4-5.5)
All years	6.7% (6.7-6.8)	4.9% (4.8-5.0)	5.9% (5.9-6.0)
<b>PTT</b>			
2008	0.4% (0.4-0.5)	0.7% (0.7-0.8)	0.5% (0.5-0.6)
2009	0.5% (0.4-0.5)	0.7% (0.6-0.7)	0.6% (0.5-0.6)
2010	0.2% (0.2-0.3)	0.7% (0.6-0.7)	0.4% (0.4-0.4)
2011	0.2% (0.2-0.2)	0.7% (0.6-0.7)	0.4% (0.4-0.4)
2012	0.2% (0.2-0.2)	0.7% (0.7-0.8)	0.4% (0.4-0.5)
All years	0.3% (0.3-0.3)	0.7% (0.7-0.7)	0.5% (0.5-0.5)
<b>Basic metabolic panel</b>			
2008	29.5% (29.3-29.7)	19.7% (19.4-19.9)	25.4% (25.2-25.6)
2009	30.2% (30.0-30.4)	21.0% (20.7-21.2)	26.2% (26.1-26.4)
2010	29.3% (29.0-29.5)	21.2% (20.9-21.4)	25.8% (25.6-26.0)
2011	26.0% (25.8-26.2)	21.6% (21.4-21.8)	24.1% (23.9-24.3)
2012	24.7% (24.4-24.9)	21.1% (20.9-21.4)	23.1% (22.9-23.3)
All years	28.0% (27.9-28.1)	20.9% (20.8-21.0)	25.0% (24.9-25.0)

Values given as proportions (binominal proportion 95% confidence intervals).

CBC = complete blood count; PT = prothrombin time; PTT = partial thromboplastin time.