

Supplementary Table 4. Baseline characteristics according to estimated threshold of modified Glasgow prognostic score > 0

	Low group	High group	Before IPW		After IPW	
	(N=88,740)	(N=13,312)	P-value	ASD	P-value	ASD
C-reactive protein/albumin ratio	0.16 (0.07, 0.41)	7.81 (4.16, 17.79)	<0.001	>0.99		
Neutrophil/lymphocyte ratio	1.75 (1.30, 2.46)	3.48 (2.23, 5.78)	<0.001	61.1		
Platelet/lymphocyte ratio	7.23 (5.59, 9.62)	12.67 (8.23, 20.14)	<0.001	67.1		
Modified Glasgow prognostic score			<0.001	67.8		
0	88740 (100)	0				
1	0	9535 (71.6)				
2	0	3777 (28.4)				
Male	43179 (48.7)	7893 (59.3)	<0.001	21.5	0.02	3.2
Age	55.6 (±15.2)	59.7 (±15.5)	<0.001	26.6	0.4	1.3
Body mass index	24.4 (±3.6)	23.4 (±3.9)	<0.001	27.4	0.001	5.3
ASA physical classification						
I	31769 (35.8)	2355 (17.7)	<0.001	41.8	0.32	1.5
II	50518 (56.9)	7887 (59.2)	<0.001	4.7	0.17	2
III	6162 (6.9)	2693 (20.2)	<0.001	39.5	0.71	0.5
IV	279 (0.3)	264 (2.0)	<0.001	15.7	0.04	3.8
V	12 (0.0)	113 (0.8)	<0.001	12.8	0.23	1.8
Habitual risk factor						
Current alcohol	17953 (20.2)	2207 (16.6)	<0.001	9.4	0.81	0.4
Current smoking	7427 (8.4)	1162 (8.7)	0.17	1.3	0.1	2.5
Previous disease						
Hypertension	27578 (31.1)	4724 (35.5)	<0.001	9.4	0.02	3.2
Diabetes	12305 (13.9)	2562 (19.2)	<0.001	14.5	0.01	3.4
Chronic kidney disease	2084 (2.3)	635 (4.8)	<0.001	13.1	0.002	4.1
Dialysis	534 (0.6)	255 (1.9)	<0.001	11.8	0.59	0.8
Stroke	2318 (2.6)	725 (5.4)	<0.001	14.4	0.32	1.2
Coronary artery disease	2425 (2.7)	465 (3.5)	<0.001	4.4	0.26	1.4
Heart failure	335 (0.4)	178 (1.3)	<0.001	10.4	0.95	0.1
Arrhythmia	1632 (1.8)	499 (3.7)	<0.001	11.6	0.92	0.1
Peripheral artery disease	319 (0.4)	133 (1.0)	0.38	7.8	0.98	<0.1
Aortic disease	393 (0.4)	156 (1.2)	<0.001	8.2	0.96	0.1
Valvular heart disease	161 (0.2)	42 (0.3)	0.002	2.7	0.83	0.2
Chronic obstructive pulmonary disease	2029 (2.3)	490 (3.7)	<0.001	8.2	0.27	1.2
Preoperative blood laboratory tests						
Hemoglobin, g/dl	13.4 (±1.8)	11.9 (±2.1)	<0.001	79.8	0.08	3.2
Creatinine, mg/dL	0.9 (±1.0)	1.0 (±1.2)	<0.001	8.1	<0.001	8.1
Operative variables						
General anesthesia	70994 (80.0)	11420 (85.8)	<0.001	15.4	0.78	0.4
Emergency operation	5048 (5.7)	3473 (26.1)	<0.001	58.1	0.41	1.1
Operation duration, min	133.9 (±99.8)	148.8 (±121.2)	<0.001	13.4	0.04	3.4
Intraoperative transfusion	3266 (3.7)	1664 (12.5)	<0.001	32.8	0.11	2.6
Intraoperative inotropics infusion	8528 (9.6)	2718 (20.4)	<0.001	30.6	0.76	0.4
Surgical risk						
Mild	26263 (29.6)	2631 (19.8)	<0.001	23	0.002	4.7
Intermediate	58137 (65.5)	9157 (68.8)	<0.001	7	0.01	3.8
High	4340 (4.9)	1524 (11.4)	<0.001	24.1	0.55	0.9
Surgery types			<0.001	45.7		
Neuroendocrine	693 (0.8)	61 (0.5)				
Lung	7443 (8.4)	1423 (10.7)				
Head & Neck	12048 (13.6)	1313 (9.9)				
Breast	997 (1.1)	182 (1.4)				
Stomach	1117 (1.3)	347 (2.6)				
Hepatobiliary	5217 (5.9)	1987 (14.9)				
Colorectal	10611 (12.0)	2441 (18.3)				

Urology	11691 (12.0)	968 (7.3)
Gynecology	7271 (8.2)	622 (4.7)
Bone & Skin etc	31652 (35.7)	3968 (29.8)

Data are presented as n (%) or mean (\pm standard deviation) or median (Q1, Q3)

Surgical risk was stratified according to 2014 European Society of Cardiology/European Society of Anaesthesiology guidelines

IPW, inverse probability of weighting; ASD, absolute standardized mean difference; ASA, American Society of Anesthesiologists