

Supplementary Table 1. Univariate regression

Variable	30-Day readmission		Nonhome discharge		30-Day reoperation		30-Day morbidity	
	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
Age (yr)	1.04 (1.01-1.06)	0.005*	1.06 (1.04-1.09)	<0.001*	1.01 (0.97-1.04)	0.768	1.01 (0.99-1.04)	0.447
BMI (kg/m ²)	1.07 (1.04-1.1)	<0.001*	1.06 (1.03-1.1)	<0.001*	1.05 (1.01-1.1)	0.025*	1.04 (1.01-1.08)	0.01
BMI (categorical)								
Nonobese	Ref.		Ref.		Ref.		Ref.	
Obese class I	2.06 (1.03-4.14)	0.042*	1.31 (0.58-2.97)	0.52	1.36 (0.53-3.45)	0.523	1.59 (0.85-2.95)	0.144
Obese class II/III	3.87 (2-7.47)	<0.001*	4.12 (2.11-8)	<0.001*	2.57 (1.08-6.12)	0.033*	1.78 (0.91-3.5)	0.093
Female sex	1.04 (0.6-1.8)	0.895	0.75 (0.41-1.36)	0.339	0.94 (0.44-1.97)	0.859	1.4 (0.82-2.39)	0.22
Black race	0.76 (0.24-2.44)	0.64	1.22 (0.43-3.41)	0.711	0.93 (0.22-3.94)	0.925	-	0.993
Hispanic ethnicity	3.02 (1.18-7.68)	0.021*	5.32 (2.34-12.05)	<0.001*	-	0.996	1.58 (0.49-5.11)	0.444
Outpatient surgery setting	0.5 (0.29-0.87)	0.015*	0.3 (0.16-0.57)	<0.001*	0.4 (0.18-0.86)	0.019*	0.48 (0.28-0.82)	0.007*
Dependent functional status	9.45 (2.17-4.17)	0.003*	10.99 (2.52-47.62)	0.001*	-	0.998	4.1 (0.55-30.88)	0.17
2-Level CDR	1.57 (0.87-2.84)	0.139	1.78 (0.95-3.32)	0.073	0.74 (0.28-1.95)	0.544	1.41 (0.78-2.52)	0.254
Comorbidities								
Diabetes mellitus	1.66 (0.74-3.7)	0.217	1.98 (0.88-4.44)	0.101	1.25 (0.38-4.14)	0.721	2.53 (1.35-5.12)	0.005*
Current smoker within 1 year	1.24 (0.65-2.37)	0.524	0.89 (0.41-1.92)	0.765	2.24 (1.03-4.86)	0.042*	0.89 (0.45-1.77)	0.738
Dyspnea	3.42 (1.05-11.17)	0.042*	4 (1.22-13.16)	0.022*	6.59 (1.96-22.2)	0.002*	0.99 (0.14-7.24)	0.993
Severe COPD	2.59 (0.62-10.82)	0.193	-	0.997	2.33 (0.31-17.35)	0.409	1.16 (0.16-8.48)	0.884
Hypertension requiring medication	-	0.999	-	0.999	1.08 (0.47-2.45)	0.86	1.31 (0.75-2.31)	0.346
Dialysis	35.62 (0.82-8.71)	0.102	41.67 (4.24-500)	0.001*	-	0.999	-	0.999
Chronic steroid use	2.68 (0.82-8.71)	0.127	0.98 (0.13-7.19)	0.985	1.57 (0.21-11.62)	0.661	4.35 (1.71-11.11)	0.002*
Bleeding disorder	4.84 (0.64-36.61)	0.001*	-	0.998	-	0.998	-	0.999
ASA PS classification grade > III	2.54 (1.45-4.43)	0.001*	4.85 (2.65-8.85)	<0.001*	1.84 (0.85-4.01)	0.122	2.23 (1.29-3.83)	0.004*
Wound class ≥ 2	-	0.999	-	0.999	-	0.999	-	0.999
Preoperative laboratory values								
Elevated creatinine	1.99 (0.88-4.48)	0.097	2.29 (0.95-5.56)	0.066	1.44 (0.43-4.81)	0.557	1.89 (0.84-4.25)	0.122
Elevated white blood	1.74 (0.62-4.9)	0.293	2.7 (1.05-6.99)	0.04*	1.52 (0.36-6.46)	0.573	4.21 (2.02-8.77)	<0.001*
Low hematocrit	2.3 (0.82-6.48)	0.115	4.42 (1.83-10.64)	<0.001*	2.05 (0.48-8.72)	0.333	0.5 (0.07-3.61)	0.488
Low platelet	1.7 (0.41-7.1)	0.467	1.97 (0.47-8.26)	0.354	-	0.997	1.56 (0.37-6.48)	0.543

OR, odds ratio; CI, confidence interval; BMI, body mass index; CDR, cervical disc replacement; COPD, chronic obstructive pulmonary disease; ASA PS, American Society of Anesthesiologists physical status.
 Dashed lines represent failed univariate analysis due to perfect correlation (complete separation).
 *p < 0.05, statistically significant differences.