

Supplementary Table 3. Non-significant parameters in Multivariable analysis for retinal artery occlusion (RAO) and cardiac surgery in the National Inpatient Sample (NIS), 1998 to 2013

Covariate	Odds ratio [95%CI]	P-value	VIF
Age group (years)			1.28
18–30	Referent		
31–40	1.61 [0.81–3.22]	0.17	
41–50	1.71 [0.87–3.38]	0.12	
51–60	1.66 [0.85–3.22]	0.13	
61–70	1.68 [0.87–3.25]	0.12	
71–80	1.53 [0.80–2.92]	0.19	
>80	1.14 [0.58–2.24]	0.71	
Elective	0.87 [0.73–1.04]	0.13	1.09
Race:			1.02
White	Referent		
Black	0.68 [0.46–1.02]	0.061	
Hispanic	0.79 [0.56–1.12]	0.18	
Asian or Pacific Islander	0.60 [0.30–1.20]	0.15	
Native American	0.98 [0.33–2.93]	0.98	
Other	0.74 [0.46–1.20]	0.22	
Year	1.00 [0.98–1.02]	0.81	1.29
Anemia	1.13 [0.76–1.69]	0.55	1.03
Aortic and mitral stenosis or insufficiency	0.89 [0.65–1.20]	0.43	1.00
Aortic stenosis	0.48 [0.11–2.05]	0.32	1.02
Aortic stenosis and insufficiency	–	–	–
Cardiogenic shock	0.90 [0.59–1.37]	0.63	1.17
Cardiomyopathy	0.89 [0.65–1.24]	0.50	1.09
Coronary artery disease	0.90 [0.71–1.13]	0.35	2.42
DM type 1 with complications	0.53 [0.25–1.13]	0.10	1.02
DM with neurological complications	0.65 [0.36–1.18]	0.16	1.10
DM with renal complications	0.36 [0.13–1.00]	0.051	1.09
Hyperlipidemia	1.12 [0.95–1.32]	0.17	1.23
Hypertension	1.06 [0.92–1.23]	0.44	1.18
Hypertension with cardiac complications	1.18 [0.69–2.01]	0.54	1.03
Intra-aortic balloon pump	0.89 [0.65–1.21]	0.44	1.16
Mitral insufficiency	0.47 [0.11–1.97]	0.30	1.03
Mitral stenosis	1.41 [0.61–3.26]	0.42	1.04
Mitral stenosis and insufficiency	–	–	–
Obesity	0.87 [0.68–1.12]	0.27	1.08
Other aortic valve disease	–	–	–
Other mitral valve disease	2.05 [0.28–15.21]	0.48	1.00
Peripheral vascular disease	1.18 [0.89–1.56]	0.26	1.03
Thrombotic stroke	1.94 [0.26–14.68]	0.52	1.00

Transfuse	1.16 [0.87–1.92]	0.21	1.08
Unspecified stroke	1.29 [0.87–1.92]	0.21	1.09
Ventricular septal defect	0.61 [0.15–2.46]	0.48	1.04
Cardiopulmonary bypass	0.90 [0.76–1.07]	0.23	1.05
Heart transplant	0.53 [0.12–2.25]	0.39	1.09
Operations on structures adjacent to heart valves	0.70 [0.45–1.11]	0.13	1.06
Pericardiectomy	1.05 [0.78–1.41]	0.73	1.16
Pulmonary valve surgery	1.31 [0.47–3.64]	0.60	1.02
Tricuspid valve surgery	0.91 [0.49–1.68]	0.76	1.05
Ventricular assist device	1.95 [0.88–4.33]	0.10	1.07

The multivariate model includes patients undergoing multiple procedures (i.e. a patient could undergo CABG and valve surgery, which would be considered as two different procedures). A separate model was thus run eliminating patients undergoing multiple procedures, i.e, the single procedure model. The results (not shown) were similar to this model (See Results section). Abbreviations: CABG: coronary artery bypass grafting; DM: diabetes mellitus; 95% CI: 95% confidence interval; VIF: variance inflation factor (< 10 indicates no collinearity). “–” Indicates insufficient numbers for analysis.