

Additional file 2. Full multivariable logistic regression model for 30-day mortality

Table 1: Full pooled multivariable model (Rubin rules; analysis cohort $n = 384$).

Variable	OR	95% CI	P-value
Age (per SD)	1.89	1.03–3.46	0.039
Male sex	0.28	0.09–0.85	0.024
Cardiogenic shock	38.92	10.86–139.44	< 0.001
SBP (per SD)	0.99	0.55–1.76	0.960
Heart rate (per SD)	1.87	1.05–3.33	0.034
LVEF (per SD)	0.43	0.24–0.78	0.005
LVEDD (per SD)	1.39	0.75–2.60	0.296
VSR size (per SD)	0.84	0.52–1.36	0.477
Culprit vessel: RCA	3.71	0.87–15.73	0.076
Ventricular aneurysm	0.44	0.17–1.13	0.086
Shunt velocity (per SD)	0.95	0.55–1.64	0.859
AMI–VSR interval (per SD)	0.93	0.59–1.46	0.753
Angiography: single-vessel disease	0.06	NA	NA
Angiography: double-vessel disease	0.03	NA	NA
Angiography: triple-vessel/left-main disease	0.05	NA	NA
Prior PCI	0.58	0.20–1.75	0.338
IABP support	0.27	0.08–0.87	0.029
WBC (per SD)	3.80	1.90–7.62	< 0.001
Hemoglobin (per SD)	0.59	0.12–2.82	0.510
Platelets (per SD)	0.88	0.58–1.36	0.571
Blood glucose (per SD)	0.92	0.53–1.57	0.752
BUN (per SD)	0.31	0.03–2.99	0.310
Total bilirubin (per SD)	1.00	0.51–1.97	0.998
ALT (per SD)	1.05	0.56–1.96	0.883
Hypertension	2.10	0.81–5.46	0.129
Hyperlipidemia	0.41	0.15–1.16	0.092
Chronic kidney disease	3.13	0.44–22.07	0.252
Prior stroke	2.02	0.61–6.68	0.249
Pulmonary infection	0.16	0.05–0.52	0.003
Prior angina	0.22	0.07–0.68	0.009
Acute kidney injury	3.27	1.04–10.29	0.042
Hemofiltration	6.43	0.42–98.75	0.182
Mechanical ventilation	23.56	4.51–123.10	< 0.001
Gastrointestinal bleeding	5.45	1.26–23.60	0.023

Continuous predictors are expressed per 1-SD increase. Reference categories: female sex; non-RCA culprit vessel; no ventricular aneurysm; no angiography category (baseline). Angiography categories with complete separation yielded non-estimable 95% CIs. Model fitted on LASSO-selected variables with Rubin-rule pooling across 20 MICE imputations ($n = 384$).