

19 eTable 1. Model Estimates for Failure-to-Rescue

Characteristic	Major Complications		
	Estimate	Standard Error	p value
<b>Demographics</b>			
Age (years, normalized in the model)	0.270	0.036	0.000
Female	0.203	0.082	0.013
<b>Body Surface Area (meter<sup>2</sup>, normalized in the model)</b>			
<1.6	Ref		
1.6-1.8	0.075	0.158	0.632
1.8-1.99	-0.322	0.156	0.040
>=1.99	-0.319	0.155	0.040
<b>Cardiac History</b>			
<b>Cerebrovascular Disease</b>			
Neither	Ref		
Cerebrovascular Disease Alone	0.035	0.102	0.733
Cerebrovascular Disease and Stroke	0.088	0.103	0.391
Percutaneous Coronary Intervention <6 h	0.813	0.210	0.000

Overall Complications		
Estimate	Standard Error	p value
0.325	0.037	< 2e-16
0.264	0.085	0.002
Ref		
-0.024	0.159	0.880
-0.386	0.158	0.015
-0.372	0.157	0.017
Ref		
0.119	0.104	0.252
0.126	0.110	0.254
0.611	0.239	0.011

<b>Risk Factors</b>			
Ejection fraction			
<40	Ref		
40-50	-0.227	0.102	0.026
50-60	-0.383	0.096	0.000
>=60	-0.243	0.095	0.011
Diabetes control			
Insulin Control	Ref		
Diabetes with Other Control	-0.006	0.097	0.948
No Diabetes	0.073	0.092	0.425
Previous Valve	1.222	0.405	0.003
Peripheral Vascular Disease	0.191	0.082	0.020
Dialysis	0.886	0.135	0.000
Chronic lung disease			
None	Ref		
Mild	0.193	0.091	0.035
Moderate	0.317	0.133	0.017
Severe	0.547	0.121	0.000
Cardiogenic Shock on admission	0.416	0.132	0.002

Ref		
-0.241	0.107	0.024
-0.365	0.099	0.000
-0.357	0.099	0.000
Ref		
-0.263	0.101	0.009
-0.136	0.095	0.151
1.183	0.422	0.005
0.169	0.087	0.051
0.730	0.142	0.000
Ref		
0.365	0.095	0.000
0.563	0.136	0.000
0.782	0.129	0.000
0.472	0.153	0.002

Admission Acuity			
Elective	Ref		
Urgent	-0.017	0.086	0.844
Emergent	-0.007	0.147	0.963
Emergent /Salvage	0.911	0.336	0.007
<b>Complication Types</b>			
Stroke	1.049	0.104	< 2e-16
Deep Sternal Wound Infection	0.138	0.259	0.595
Any Reoperation	0.738	0.074	< 2e-16
Prolonged Ventilation	1.445	0.098	< 2e-16
Renal Failure	1.659	0.079	< 2e-16
Renal Dialysis			
Dysrhythmia requiring Permanent Pacemaker			
Cardiac Arrest			
Anticoagulation Event			
Tamponade			
Gastrointestinal Event			
Multi-organ system failure			
Atrial Fibrillation			

Ref		
0.050	0.087	0.564
0.279	0.160	0.081
1.665	0.366	0.000
1.361	0.119	< 2e-16
1.935	0.441	0.000
0.346	0.090	0.000
0.596	0.082	0.000
0.482	0.170	0.005
0.590	0.195	0.003
-1.680	0.212	0.000
3.253	0.082	< 2e-16
-0.219	0.199	0.271
1.460	0.731	0.046
-0.011	0.119	0.924
3.361	0.157	< 2e-16
-0.924	0.076	< 2e-16

Aortic Dissection			
Sepsis			
Surgical Site Infection			
Coma			
Pneumonia			
Pulmonary Embolism			

0.214	0.881	0.808
0.736	0.149	0.000
-1.887	0.334	0.000
-0.042	0.110	0.705
-0.233	0.115	0.042
0.030	0.397	0.939

20

21