

Supplemental Table 5. Patient Characteristics with Variables in Final Model indicated.

*	Total	Derivation	Validation	*
*	N = 53,922	n = 37,734	n = 16,188	P- value
Survived to discharge	11,283 (20.9%)	7921 (21.0%)	3362 (20.8%)	0.56
Demographics	*	*	*	*
Year of arrest	*	*	*	0.36
2020	23,609 (43.8%)	16,570 (43.9%)	7039 (43.5%)	
2021	30,313 (56.2%)	21,164 (56.1%)	9149 (56.5%)	
Age	*	*	*	0.005
Mean ± SD	64.7 ± 15.3	64.8 ± 15.3	64.4 ± 15.3	
Median (IQR)	67.0 (56.0, 76.0)	67.0 (56.0, 76.0)	66.0 (56.0, 75.0)	
Age group #	*	*	*	0.16
18 to <50	8622 (16.0%)	5967 (15.8%)	2655 (16.4%)	
50 to <60	8681 (16.1%)	6040 (16.0%)	2641 (16.3%)	
60 to <70	14,134 (26.2%)	9871 (26.2%)	4263 (26.3%)	
70 to <80	13,753 (25.5%)	9685 (25.7%)	4068 (25.1%)	
≥ 80	8732 (16.2%)	6171 (16.4%)	2561 (15.8%)	
Sex	*	*	*	0.92
Male	32,558 (60.4%)	22,789 (60.4%)	9769 (60.3%)	
Female	21,364 (39.6%)	14,945 (39.6%)	6419 (39.7%)	
Race	*	*	*	0.47
White	33,745 (62.6%)	23,672 (62.7%)	10,073 (62.2%)	
Black	13,218 (24.5%)	9246 (24.5%)	3972 (24.5%)	
Asian	1295 (2.4%)	916 (2.4%)	379 (2.3%)	
American Indian/Eskimo	413 (0.8%)	286 (0.8%)	127 (0.8%)	
Unknown	4900 (9.1%)	3377 (9.0%)	1523 (9.4%)	
Hawaiian/Pacific Islander	344 (0.6%)	232 (0.6%)	112 (0.7%)	

Missing	7	5	2	
<i>Pre-Existing Conditions</i>	*	*	*	*
Covid-19 #	13,148 (24.4%)	9176 (24.3%)	3972 (24.5%)	0.59
Illness category				
Medical-Cardiac	16,068 (29.8%)	11,339 (30.1%)	4729 (29.2%)	0.048
Medical-Noncardiac	29,647 (55.0%)	20,652 (54.7%)	8995 (55.6%)	
Surgical-Cardiac	2409 (4.5%)	1712 (4.5%)	697 (4.3%)	
Surgical-Noncardiac	3984 (7.4%)	2795 (7.4%)	1189 (7.3%)	
Obstetric	62 (0.1%)	45 (0.1%)	17 (0.1%)	
Trauma	1698 (3.1%)	1149 (3.0%)	549 (3.4%)	
Other (Visitor/Employee)	43 (0.1%)	35 (0.1%)	8 (0.0%)	
Missing	11	7	4	
Respiratory Insufficiency	28,952 (53.7%)	20,202 (53.5%)	8750 (54.1%)	0.27
Renal Insufficiency #	20,443 (37.9%)	14,269 (37.8%)	6174 (38.1%)	0.48
Diabetes Mellitus	20,515 (38.0%)	14,322 (38.0%)	6193 (38.3%)	0.51
Hypotension/Hypoperfusion #	17,364 (32.2%)	12,171 (32.3%)	5193 (32.1%)	0.69
Heart Failure this Admission	6191 (11.5%)	4330 (11.5%)	1861 (11.5%)	0.94
Heart Failure prior to Admission	12,438 (23.1%)	8687 (23.0%)	3751 (23.2%)	0.71
MI this Admission	6362 (11.8%)	4515 (12.0%)	1847 (11.4%)	0.07
MI prior to Admission	7067 (13.1%)	4949 (13.1%)	2118 (13.1%)	0.92
Metabolic/Electrolyte Abnormality #	16,528 (30.7%)	11,540 (30.6%)	4988 (30.8%)	0.59
Sepsis #	13,375 (24.8%)	9420 (25.0%)	3955 (24.4%)	0.19
Pneumonia	13,748 (25.5%)	9604 (25.5%)	4144 (25.6%)	0.72
Metastatic/Hematologic Malignancy #	5591 (10.4%)	3928 (10.4%)	1663 (10.3%)	0.63
Baseline Depression of CNS Function	4053 (7.5%)	2821 (7.5%)	1232 (7.6%)	0.59
Hepatic Insufficiency #	5628 (10.4%)	3910 (10.4%)	1718 (10.6%)	0.38
Acute CNS non-stroke Event	7792 (14.5%)	5420 (14.4%)	2372 (14.7%)	0.38

Acute Stroke	2051 (3.8%)	1491 (4.0%)	560 (3.5%)	0.006
Major Trauma #	2591 (4.8%)	1771 (4.7%)	820 (5.1%)	0.06
Interventions in Place	*	*	*	*
Invasive assisted ventilation #	22,013 (40.8%)	15,361 (40.7%)	6652 (41.1%)	0.41
Continuous IV Vasopressor #	16,883 (31.3%)	11,778 (31.2%)	5105 (31.5%)	0.45
Missing	18	11	7	
Dialysis	2228 (4.1%)	1551 (4.1%)	677 (4.2%)	0.70
Event Characteristics	*	*	*	*
Weekend arrest	23,200 (43.0%)	16,186 (42.9%)	7014 (43.3%)	0.35
Location #	*	*	*	0.66
Intensive care unit	25,717 (47.7%)	17,962 (47.6%)	7755 (47.9%)	
Monitored unit	7962 (14.8%)	5578 (14.8%)	2384 (14.7%)	
Non-Monitored unit	8674 (16.1%)	6095 (16.2%)	2579 (15.9%)	
Emergency room	6839 (12.7%)	4772 (12.6%)	2067 (12.8%)	
Procedural unit	3701 (6.9%)	2622 (7.0%)	1079 (6.7%)	
Other	1019 (1.9%)	697 (1.8%)	322 (2.0%)	
Missing	10	8	2	
Initial cardiac arrest rhythm #	*	*	*	0.89
Asystole	14,387 (26.7%)	10,089 (26.7%)	4298 (26.6%)	
Pulseless electrical activity	32,070 (59.5%)	22,407 (59.4%)	9663 (59.7%)	
Ventricular fibrillation	3759 (7.0%)	2646 (7.0%)	1113 (6.9%)	
Ventricular tachycardia	3706 (6.9%)	2592 (6.9%)	1114 (6.9%)	

Note: * indicates cell intentionally left blank

Note: # marks variables included in final model