

Table 1 of base model: Mortality 72 hours

	Overall	No Alived	Yes Expired	p	test
n	200468	197816	2652		
age (mean (SD))	63.15 (17.08)	63.08 (17.09)	68.68 (15.15)	<0.001	
gender (%)				0.444	
male	108228 (54.0)	106771 (54.0)	1457 ( 54.9)		
female	92152 (46.0)	90959 (46.0)	1193 ( 45.0)		
Unknown	88 ( 0.0)	86 ( 0.0)	2 ( 0.1)		
apachescoreIV (mean (SD))	53.83 (22.53)	53.25 (21.76)	97.27 (34.11)	<0.001	
apachedxgroup (%)				<0.001	
ACS	10569 ( 5.3)	10497 ( 5.3)	72 ( 2.7)		
ARF	2449 ( 1.2)	2422 ( 1.2)	27 ( 1.0)		
Asthma-Emphys	5347 ( 2.7)	5314 ( 2.7)	33 ( 1.2)		
CABG	5974 ( 3.0)	5960 ( 3.0)	14 ( 0.5)		
CardiacArrest	12412 ( 6.2)	11865 ( 6.0)	547 ( 20.6)		
ChestPainUnknown	1102 ( 0.5)	1098 ( 0.6)	4 ( 0.2)		
CHF	7746 ( 3.9)	7611 ( 3.8)	135 ( 5.1)		
Coma	2908 ( 1.5)	2874 ( 1.5)	34 ( 1.3)		
CVA	12246 ( 6.1)	12023 ( 6.1)	223 ( 8.4)		
CVOther	5020 ( 2.5)	4988 ( 2.5)	32 ( 1.2)		
DKA	5285 ( 2.6)	5278 ( 2.7)	7 ( 0.3)		
GIBleed	9415 ( 4.7)	9316 ( 4.7)	99 ( 3.7)		
GIObstruction	1572 ( 0.8)	1543 ( 0.8)	29 ( 1.1)		
Neuro	6011 ( 3.0)	5991 ( 3.0)	20 ( 0.8)		
Other	56033 (28.0)	55769 (28.2)	264 ( 10.0)		
Overdose	5173 ( 2.6)	5165 ( 2.6)	8 ( 0.3)		
PNA	6244 ( 3.1)	6126 ( 3.1)	118 ( 4.4)		
RespMedOther	11344 ( 5.7)	11141 ( 5.6)	203 ( 7.7)		
Sepsis	23131 (11.5)	22460 (11.4)	671 ( 25.3)		
Trauma	7126 ( 3.6)	7030 ( 3.6)	96 ( 3.6)		
ValveDz	3361 ( 1.7)	3345 ( 1.7)	16 ( 0.6)		
prev_dept_los (mean (SD))	-2363.28 (7409.29)	-2355.83 (7399.15)	-2919.35 (8112.21)	<0.001	
prev_dept (%)				<0.001	
	49327 (24.6)	48644 (24.6)	683 ( 25.8)		
Acute Care/Floor	3682 ( 1.8)	3624 ( 1.8)	58 ( 2.2)		
Chest Pain Center	321 ( 0.2)	320 ( 0.2)	1 ( 0.0)		
Direct Admit	12350 ( 6.2)	12153 ( 6.1)	197 ( 7.4)		
Emergency Department	82309 (41.1)	81171 (41.0)	1138 ( 42.9)		
Floor	18104 ( 9.0)	17787 ( 9.0)	317 ( 12.0)		
ICU	54 ( 0.0)	53 ( 0.0)	1 ( 0.0)		
ICU to SDU	86 ( 0.0)	86 ( 0.0)	0 ( 0.0)		
Observation	26 ( 0.0)	25 ( 0.0)	1 ( 0.0)		
Operating Room	19356 ( 9.7)	19276 ( 9.7)	80 ( 3.0)		
Other	9 ( 0.0)	9 ( 0.0)	0 ( 0.0)		
Other Hospital	3824 ( 1.9)	3761 ( 1.9)	63 ( 2.4)		
Other ICU	431 ( 0.2)	416 ( 0.2)	15 ( 0.6)		
PACU	1561 ( 0.8)	1553 ( 0.8)	8 ( 0.3)		
Recovery Room	6615 ( 3.3)	6587 ( 3.3)	28 ( 1.1)		
Step-Down Unit (SDU)	2413 ( 1.2)	2351 ( 1.2)	62 ( 2.3)		
albumin (mean (SD))	-0.10 (0.29)	-0.10 (0.28)	-0.09 (0.41)	0.058	
bilirubin (mean (SD))	-0.01 (0.92)	-0.01 (0.90)	-0.07 (2.05)	0.003	
BUN (mean (SD))	-2.32 (13.11)	-2.32 (12.96)	-2.43 (21.48)	0.657	

		No	Yes		
	Overall	Alived	Expired	p	test
calcium (mean (SD))	0.01 (0.49)	0.01 (0.48)	-0.05 (0.78)	<0.001	
creatinine (mean (SD))	-0.09 (1.00)	-0.09 (1.00)	-0.06 (1.38)	0.187	
glucose (mean (SD))	-9.54 (70.04)	-9.45 (69.58)	-16.03 (98.32)	<0.001	
bicarbonate (mean (SD))	0.97 (3.03)	0.98 (2.99)	0.63 (4.79)	<0.001	
TotalCO2 (mean (SD))	-0.04 (2.32)	-0.04 (2.27)	-0.02 (4.38)	0.608	
hematocrit (mean (SD))	-1.08 (3.94)	-1.08 (3.92)	-1.46 (5.23)	<0.001	
hemoglobin (mean (SD))	-0.40 (1.36)	-0.40 (1.35)	-0.53 (1.73)	<0.001	
INR (mean (SD))	0.08 (0.40)	0.08 (0.39)	0.05 (0.88)	0.001	
lactate (mean (SD))	-0.23 (0.97)	-0.23 (0.87)	-0.08 (3.77)	<0.001	
platelets (mean (SD))	-6.77 (55.49)	-6.69 (55.07)	-12.69 (80.27)	<0.001	
potassium (mean (SD))	-0.04 (0.47)	-0.04 (0.46)	0.02 (0.84)	<0.001	
ptt (mean (SD))	5.43 (8.79)	5.43 (8.69)	5.21 (14.58)	0.198	
sodium (mean (SD))	0.79 (3.31)	0.79 (3.27)	1.30 (5.32)	<0.001	
wbc (mean (SD))	-0.92 (4.09)	-0.92 (4.02)	-0.81 (7.80)	0.166	
bands (mean (SD))	-2.03 (2.36)	-2.03 (2.32)	-1.95 (4.28)	0.099	
alt (mean (SD))	1.12 (170.26)	0.47 (153.84)	49.51 (650.99)	<0.001	
ast (mean (SD))	-1.48 (372.07)	-2.91 (330.26)	104.86 (1522.60)	<0.001	
alp (mean (SD))	-2.64 (37.29)	-2.63 (36.63)	-2.91 (71.07)	0.709	
heartrate (mean (SD))	-4.00 (18.27)	-3.98 (18.10)	-5.22 (27.80)	0.001	
respiratoryrate (mean (SD))	-0.55 (6.21)	-0.51 (6.12)	-3.35 (10.87)	<0.001	
spo2 (mean (SD))	-0.89 (5.34)	-0.83 (4.98)	-5.15 (16.87)	<0.001	
nibp_systolic (mean (SD))	0.55 (23.35)	0.55 (23.24)	0.44 (30.57)	0.811	
nibp_diastolic (mean (SD))	-0.69 (15.74)	-0.67 (15.67)	-1.90 (20.44)	<0.001	
nibp_mean (mean (SD))	-1.16 (16.52)	-1.15 (16.43)	-1.80 (22.26)	0.044	
temperature (mean (SD))	0.10 (0.59)	0.10 (0.58)	0.27 (1.08)	<0.001	
ibp_systolic (mean (SD))	-5.21 (11.18)	-5.11 (10.77)	-12.28 (27.20)	<0.001	
ibp_diastolic (mean (SD))	-2.12 (5.95)	-2.08 (5.80)	-4.94 (12.74)	<0.001	
ibp_mean (mean (SD))	-4.17 (8.68)	-4.09 (8.41)	-10.27 (19.54)	<0.001	
norepinephrine_first = 1 (%)	1830 ( 0.9)	1708 ( 0.9)	122 ( 4.6)	<0.001	
norepinephrine_last = 1 (%)	409 ( 0.2)	373 ( 0.2)	36 ( 1.4)	<0.001	
epinephrine_first = 1 (%)	337 ( 0.2)	323 ( 0.2)	14 ( 0.5)	<0.001	
epinephrine_last = 1 (%)	184 ( 0.1)	152 ( 0.1)	32 ( 1.2)	<0.001	
dopamine_first = 1 (%)	395 ( 0.2)	379 ( 0.2)	16 ( 0.6)	<0.001	
dopamine_last = 1 (%)	102 ( 0.1)	93 ( 0.0)	9 ( 0.3)	<0.001	
dobutamine_first = 1 (%)	139 ( 0.1)	133 ( 0.1)	6 ( 0.2)	0.007	
dobutamine_last = 1 (%)	70 ( 0.0)	65 ( 0.0)	5 ( 0.2)	<0.001	
phenylephrine_first = 1 (%)	507 ( 0.3)	478 ( 0.2)	29 ( 1.1)	<0.001	
phenylephrine_last = 1 (%)	207 ( 0.1)	180 ( 0.1)	27 ( 1.0)	<0.001	
vasopressin_first = 1 (%)	219 ( 0.1)	205 ( 0.1)	14 ( 0.5)	<0.001	
vasopressin_last = 1 (%)	96 ( 0.0)	83 ( 0.0)	13 ( 0.5)	<0.001	
milrinone_first = 1 (%)	102 ( 0.1)	99 ( 0.1)	3 ( 0.1)	0.319	
milrinone_last = 1 (%)	24 ( 0.0)	24 ( 0.0)	0 ( 0.0)	1.000	
heparin_first = 1 (%)	2890 ( 1.4)	2834 ( 1.4)	56 ( 2.1)	0.005	
heparin_last = 1 (%)	2679 ( 1.3)	2656 ( 1.3)	23 ( 0.9)	0.042	
warfarin_first = 1 (%)	692 ( 0.3)	690 ( 0.3)	2 ( 0.1)	0.027	
warfarin_last = 1 (%)	2781 ( 1.4)	2777 ( 1.4)	4 ( 0.2)	<0.001	
icu_mortality_72hrs = Expired (%)	2652 ( 1.3)	0 ( 0.0)	2652 (100.0)	<0.001	