

Supplementary Table 5. The characteristics and levels change over time for predictors for pH

Variable	Group 1					Group 2					Group 3					Group 4					
	A	B	C	D	P-value	A	B	C	D	P-value	A	B	C	D	P-value	A	B	C	D	P-value	
No. of patients	212 (21.9)	354 (36.6)	173 (17.9)	229 (23.7)		160 (23.3)	209 (30.4)	204 (29.7)	115 (16.7)		83 (16.3)	162 (31.8)	165 (32.4)	99 (19.4)		40 (11.4)	95 (27.0)	156 (44.3)	61 (17.3)		
Demographics																					
Mortality	14 (6.6)	35 (9.9)	62 (35.8)	127 (55.5)	<0.001	5 (3.1)	15 (7.2)	71 (34.8)	80 (69.6)	<0.001	4 (4.8)	11 (6.8)	25 (15.2)	61 (61.6)	<0.001	0 (0)	5 (5.3)	14 (9.0)	33 (54.1)	<0.001	
Age (yr)	51 (42-62)	51 (41-60)	51 (42-60)	52 (42-62)	0.593	48 (42-58)	50 (40-60)	54 (44-63)	52 (42-64)	0.056	56 (44-62)	49 (40-59)	52 (43-62)	56 (46-66)	0.008	58 (45-70)	52 (43-60)	52 (44-64)	54 (46-65)	0.484	
Sex					<0.001					0.033					0.047					0.009	
Male	159 (75.0)	271 (76.6)	152 (87.9)	200 (87.3)		114 (71.2)	163 (78.0)	167 (81.9)	97 (84.3)		58 (69.9)	126 (77.8)	140 (84.8)	80 (80.8)		31 (77.5)	63 (66.3)	129 (82.7)	52 (85.2)		
Female	53 (25.0)	83 (23.4)	21 (12.1)	29 (12.7)		46 (28.7)	46 (22.0)	37 (18.1)	18 (15.7)		25 (30.1)	36 (22.2)	25 (15.2)	19 (19.2)		9 (22.5)	32 (33.7)	27 (17.3)	9 (14.8)		
TBSA	25 (12-35)	31 (20-41)	34 (20-60)	38 (38-75)	<0.001	30 (20-40)	32 (21-43)	42 (30-61)	60 (38-76)	<0.001	30 (20-40)	36 (21-50)	40 (28-52)	57 (34-70)	<0.001	35 (26-50)	33 (24-45)	40 (23-55)	52 (33-63)	<0.001	
Inhalation	53 (25.0)	120 (33.9)	96 (55.5)	139 (60.7)	<0.001	44 (27.5)	86 (41.1)	91 (44.6)	67 (58.3)	<0.001	27 (32.5)	63 (38.9)	80 (48.5)	55 (55.6)	0.005	13 (32.5)	37 (38.9)	71 (45.5)	35 (57.4)	0.053	
LOICU	15 (9-25)	21 (12-35)	26 (15-37)	25 (13-40)	<0.001	25 (18-34)	27 (20-39)	34 (24-46)	23 (15-38)	<0.001	31 (24-46)	32 (26-45)	37 (27-53)	30 (25-43)	0.017	44 (35-58)	35 (31-45)	44 (36-62)	39 (32-57)	0.001	
pH value																					
Mortality	14 (6.6)	35 (9.9)	62 (35.8)	127 (55.5)	<0.001	5 (3.1)	15 (7.2)	71 (34.8)	80 (69.6)	<0.001	4 (4.8)	11 (6.8)	25 (15.2)	61 (61.6)	<0.001	0 (0)	5 (5.3)	14 (9.0)	33 (54.1)	<0.001	
Day 1	7.39 (7.36-7.42)	7.35 (7.32-7.38)	7.24 (7.18-7.28)	7.33 (7.28-7.36)	<0.001	7.43 (7.42-7.46)	7.38 (7.35-7.41)	7.33 (7.29-7.36)	7.26 (7.22-7.30)	<0.001	7.45 (7.42-7.48)	7.42 (7.38-7.44)	7.37 (7.33-7.41)	7.31 (7.27-7.36)	<0.001	7.47 (7.45-7.50)	7.43 (7.41-7.47)	7.39 (7.35-7.43)	7.30 (7.25-7.36)	<0.001	
Day 2	7.39 (7.36-7.42)	7.35 (7.33-7.38)	7.29 (7.25-7.33)	7.32 (7.28-7.36)	<0.001	7.44 (7.42-7.46)	7.39 (7.37-7.41)	7.34 (7.30-7.37)	7.24 (7.20-7.30)	<0.001	7.46 (7.43-7.48)	7.41 (7.38-7.43)	7.38 (7.35-7.41)	7.30 (7.25-7.35)	<0.001	7.48 (7.46-7.50)	7.45 (7.42-7.46)	7.39 (7.36-7.42)	7.30 (7.24-7.35)	<0.001	
Day 3	7.40 (7.37-7.43)	7.38 (7.34-7.40)	7.33 (7.30-7.37)	7.31 (7.27-7.36)	<0.001	7.44 (7.42-7.46)	7.40 (7.37-7.42)	7.34 (7.31-7.38)	7.25 (7.21-7.29)	<0.001	7.46 (7.44-7.48)	7.42 (7.39-7.44)	7.39 (7.34-7.40)	7.31 (7.26-7.35)	<0.001	7.47 (7.45-7.50)	7.44 (7.42-7.47)	7.41 (7.37-7.43)	7.29 (7.24-7.34)	<0.001	
Day 4	7.41 (7.38-7.44)	7.38 (7.35-7.41)	7.35 (7.29-7.39)	7.30 (7.25-7.35)	<0.001	7.44 (7.42-7.46)	7.40 (7.38-7.43)	7.34 (7.30-7.38)	7.26 (7.22-7.30)	<0.001	7.46 (7.44-7.48)	7.42 (7.39-7.45)	7.37 (7.34-7.40)	7.29 (7.25-7.33)	<0.001	7.48 (7.47-7.50)	7.45 (7.43-7.47)	7.41 (7.37-7.44)	7.28 (7.24-7.34)	<0.001	
Day 5	7.42 (7.40-7.45)	7.39 (7.36-7.42)	7.35 (7.31-7.39)	7.29 (7.25-7.34)	<0.001	7.44 (7.42-7.46)	7.40 (7.38-7.43)	7.35 (7.32-7.38)	7.25 (7.20-7.29)	<0.001	7.45 (7.43-7.47)	7.43 (7.41-7.45)	7.38 (7.34-7.41)	7.29 (7.25-7.33)	<0.001	7.48 (7.46-7.50)	7.45 (7.43-7.46)	7.41 (7.37-7.43)	7.31 (7.25-7.35)	<0.001	
Day 6	7.43 (7.40-7.46)	7.39 (7.36-7.42)	7.35 (7.30-7.39)	7.28 (7.23-7.31)	<0.001	7.44 (7.42-7.46)	7.41 (7.39-7.43)	7.35 (7.31-7.39)	7.25 (7.20-7.30)	<0.001	7.46 (7.44-7.47)	7.43 (7.40-7.46)	7.38 (7.34-7.42)	7.28 (7.23-7.33)	<0.001	7.48 (7.46-7.50)	7.44 (7.42-7.46)	7.40 (7.37-7.43)	7.32 (7.24-7.36)	<0.001	
Day 7	7.43 (7.40-7.46)	7.40 (7.36-7.43)	7.35 (7.30-7.39)	7.27 (7.22-7.32)	<0.001	7.45 (7.43-7.47)	7.41 (7.38-7.44)	7.36 (7.32-7.40)	7.26 (7.18-7.30)	<0.001	7.46 (7.44-7.48)	7.43 (7.40-7.46)	7.40 (7.36-7.43)	7.28 (7.20-7.33)	<0.001	7.48 (7.46-7.50)	7.45 (7.43-7.47)	7.41 (7.37-7.44)	7.31 (7.24-7.37)	<0.001	
Mean of overall median pH value	7.41 (7.38-7.44)	7.38 (7.34-7.41)	7.32 (7.27-7.37)	7.30 (7.25-7.35)	<0.001	7.44 (7.42-7.46)	7.40 (7.37-7.43)	7.34 (7.30-7.38)	7.25 (7.20-7.30)	<0.001	7.45 (7.43-7.48)	7.42 (7.39-7.45)	7.38 (7.34-7.42)	7.29 (7.25-7.34)	<0.001	7.48 (7.46-7.50)	7.44 (7.42-7.47)	7.41 (7.37-7.43)	7.30 (7.24-7.35)	<0.001	

Values are presented as number (%) or median (interquartile range). TBSA, total body surface area burned %; LOICU, length of stay in intensive care unit.