

Table S1 Comparison of baseline characteristics in different groups after PSM

Variables	All patients (n=2,741)	Group 1 (n=910)	Group 2 (n=838)	Group 3 (n=993)	P
Age (years), mean ± SD	66.83±14.98	65.12±15.19	69.81±14.30	65.87±14.99	<0.001
Males, n (%)	1,809 (66.00)	620 (68.13)	521 (62.17)	668 (67.27)	0.018
Ethnicity, n (%)					0.361
Asian	54 (1.97)	23 (2.53)	16 (1.91)	15 (1.51)	
Black	202 (7.37)	64 (7.03)	57 (6.80)	81 (8.16)	
Hispanic	70 (2.55)	27 (2.97)	14 (1.67)	29 (2.92)	
White	1,708 (62.31)	553 (60.77)	537 (64.08)	618 (62.24)	
Other	707 (25.79)	243 (26.70)	214 (25.54)	250 (25.18)	
Insurance, n (%)					<0.001
Medicaid	168 (6.13)	54 (5.93)	44 (5.25)	70 (7.05)	
Medicare	1,189 (43.38)	364 (40.00)	417 (49.76)	408 (41.09)	
Other	1,384 (50.49)	492 (54.07)	377 (44.99)	515 (51.86)	
Marriage, n (%)					<0.001
Divorced	215 (7.84)	59 (6.48)	86 (10.26)	70 (7.05)	
Married	1,278 (46.63)	454 (49.89)	359 (42.84)	465 (46.83)	
Single	603 (22.00)	193 (21.21)	169 (20.17)	241 (24.27)	
Widowed	289 (10.54)	80 (8.79)	120 (14.32)	89 (8.96)	
Unknown	356 (12.99)	124 (13.63)	104 (12.41)	128 (12.89)	
Admission type, n (%)					<0.001
Elective	151 (5.51)	45 (4.95)	45 (5.37)	61 (6.14)	
Emergency	1,445 (52.72)	462 (50.77)	458 (54.65)	525 (52.87)	
Surgical	280 (10.22)	135 (14.84)	59 (7.04)	86 (8.66)	
Urgent	865 (31.56)	268 (29.45)	276 (32.94)	321 (32.33)	
ICU type, n (%)					<0.001
CVICU	836 (30.50)	342 (37.58)	242 (28.88)	252 (25.38)	
CCU	574 (20.94)	74 (8.13)	190 (20.67)	310 (31.22)	
MICU	465 (16.96)	158 (17.36)	158 (18.87)	149 (15.01)	
MICU/SICU	314 (11.46)	114 (12.53)	95 (11.34)	105 (10.57)	
SICU	104 (3.79)	44 (4.84)	31 (3.70)	29 (2.92)	
TSICU	249 (9.08)	99 (10.88)	67 (8.00)	83 (8.36)	
NICU	199 (7.26)	79 (8.68)	55 (6.56)	65 (6.55)	
Comorbidity, n (%)					
Coronary heart disease	1,411 (51.48)	444 (48.79)	470 (56.09)	497 (50.05)	0.005
Valvular heart disease	806 (29.41)	233 (25.60)	284 (33.89)	289 (29.10)	0.001
Congenital heart disease	117 (4.27)	43 (4.73)	32 (3.82)	42 (4.23)	0.643
Hypertension	1,781 (64.98)	574 (63.08)	573 (68.38)	634 (63.85)	0.044
Atrial fibrillation	1,263 (46.08)	399 (43.85)	412 (49.16)	452 (45.52)	0.076
Diabetes	818 (29.84)	255 (28.02)	260 (31.03)	303 (30.51)	0.330
Peripheral artery disease	361 (13.17)	115 (12.64)	112 (13.37)	134 (13.49)	0.842
Chronic pulmonary disease	714 (26.05)	206 (22.64)	245 (29.24)	263 (26.49)	0.007
Stroke	389 (14.19)	120 (13.19)	125 (14.92)	144 (14.50)	0.550
Dementia	78 (2.85)	19 (2.09)	31 (3.70)	28 (2.82)	0.129
Paraplegia	135 (4.93)	46 (5.05)	37 (4.42)	52 (5.24)	0.703
Rheumatic disease	84 (3.06)	24 (2.64)	31 (3.70)	29 (2.92)	0.414
Peptic ulcer	58 (2.12)	19 (2.09)	21 (2.51)	18 (1.81)	0.589
Mild liver disease	324 (11.82)	121 (13.30)	86 (10.26)	117 (11.78)	0.145
Severe liver disease	101 (3.68)	39 (4.29)	28 (3.34)	34 (3.42)	0.498
Renal disease	670 (24.44)	190 (20.88)	242 (28.88)	238 (23.97)	<0.001
Malignant cancer	221 (8.06)	77 (8.46)	74 (8.83)	70 (7.05)	0.327
Metastatic tumor	95 (3.47)	37 (4.07)	30 (3.58)	28 (2.82)	0.324
AIDS	7 (0.26)	3 (0.33)	1 (0.12)	6 (0.30)	0.640
Sepsis	1,499 (54.69)	506 (55.60)	460 (54.89)	533 (53.68)	0.693
Vital sign, mean ± SD					
Weight (kg)	85.02±24.10	84.24±22.18	84.90±25.94	85.83±24.17	0.203
HR (bpm)	87.26±16.73	87.21±16.46	86.75±15.64	87.72±17.83	0.785
SBP (mmHg)	114.00±15.12	114.57±14.78	114.17±15.45	113.32±15.12	0.182
DBP (mmHg)	64.18±11.18	64.66±11.33	63.36±10.99	64.43±11.17	0.036
RR (bpm)	19.90±3.98	19.88±4.28	19.81±3.80	19.99±3.86	0.240
Laboratory test					
WBC (×10 <sup>9</sup> /L), mean ± SD	11.56±7.20	11.96±8.06	11.43±6.80	11.30±6.65	0.366
Hemoglobin (g/dL), mean ± SD	11.53±2.29	11.58±2.37	11.38±2.22	11.61±2.26	0.076
Platelet (×10 <sup>9</sup> /L), mean ± SD	205.53±97.96	202.10±103.74	207.25±99.44	207.22±91.03	0.435
Creatinine (mg/dL), median [IQR]	1.10 [0.80, 1.50]	1.00 [0.80, 1.40]	1.10 [0.80, 1.60]	1.10 [0.80, 1.50]	<0.001
Glucose (mg/dL), mean ± SD	139.36±67.72	138.54±73.09	140.08±64.79	139.50±65.02	0.890
Na (mmol/L), mean ± SD	138.57±4.67	138.56±4.51	138.69±4.92	138.46±4.60	0.585
K (mmol/L), mean ± SD	4.25±0.72	4.29±0.72	4.22±0.68	4.25±0.74	0.164
HCO <sub>3</sub> <sup>-</sup> (mmol/L), mean ± SD	24.06±4.87	23.81±4.76	24.23±5.01	24.15±4.85	0.156
Scoring system, median [IQR]					
SOFA	5 [3, 8]	5 [3, 8]	6 [3, 9]	5 [3, 9]	0.593
APACHE III	33 [45, 66]	31 [43, 67]	34 [46, 65]	34 [46, 66]	0.091
Treatment, n (%)					
RRT	226 (8.25)	89 (9.78)	55 (6.56)	82 (8.26)	0.051
Mechanical ventilation	1,350 (49.25)	482 (52.97)	420 (50.12)	448 (45.12)	0.002
Vasoactive drugs	1,447 (52.79)	489 (53.74)	442 (52.74)	516 (51.96)	0.741
Antibiotics	2,015 (73.51)	697 (76.59)	629 (75.06)	689 (69.39)	0.001
β-RB	924 (33.71)	272 (29.89)	302 (36.04)	350 (35.25)	0.011
ACEI/ARB	493 (17.99)	86 (9.45)	161 (19.21)	246 (24.77)	<0.001
Diuretics	990 (36.12)	260 (28.57)	343 (40.93)	387 (38.97)	<0.001
Digoxin	130 (4.74)	19 (2.09)	33 (3.94)	78 (7.85)	<0.001

Group 1, patients without cardiomyopathy and congestive HF; group 2, patients only with congestive HF; group 3, patients with cardiomyopathy and congestive HF. PSM, propensity scores matching; SD, standard deviation; ICU, intensive care unit; CVICU, cardiac vascular ICU; CCU, coronary care unit; MICU, medical ICU; SICU, surgical ICU; TSICU, trauma ICU; NICU, neurological ICU; AIDS, acquired immune deficiency syndrome; HR, heart rate; SBP, systolic blood pressure; DBP, diastolic blood pressure; RR, respiratory rate; WBC, white blood cell; Na, sodium; K, potassium; HCO<sub>3</sub><sup>-</sup>, bicarbonate; IQR, interquartile range; SOFA, Sequential Organ Failure Assessment; APACHE III, Acute Physiology and Chronic Health Evaluation III scores; RRT, renal replace treatment; β-RB, β-receptor blockers; ACEI, angiotensin-converting enzyme inhibitors; ARB, angiotensin receptor blockers; HF, heart failure.