

Supplemental Table 2a. Unmatched and Propensity-matched Patient Characteristics (<65 years)

Variables	Unmatched Cohort			Propensity-matched Cohort		
	Surgical treatment	Surgical treatment	SMD	Surgical treatment	Surgical treatment	SMD
	(-) (n = 4,909)	(+) (n = 2,894)		(-) (n = 1,785)	(+) (n = 1,785)	
Age, years	51 [39-59]	51[41-59]	0.04	52 [40-59]	51 [41-59]	0.009
Male gender	3,384 (68.9%)	2,124 (73.4%)	0.099	1,284 (71.9%)	1,287 (72.1%)	0.004
BMI, kg/m ²						
<18.5 kg/m ²	845 (17.2%)	574 (19.8%)	0.068	336 (18.8%)	347 (19.4%)	0.016
18.5-24.9 kg/m ²	2,707 (55.1%)	1,686 (58.3%)	0.063	1,032 (57.8%)	1,032 (57.8%)	0.000
25.0-29.9 kg/m ²	769 (15.7%)	428 (14.8%)	-0.024	267 (15.0%)	259 (14.5%)	-0.013
≥30 kg/m ²	239 (4.9%)	92 (3.2%)	-0.086	61 (3.4%)	62 (3.5%)	0.003
Missing	349 (7.1%)	114 (3.9%)	-0.139	89 (5.0%)	85 (4.8%)	-0.010
Smoking	2,305 (47.0%)	1,536 (53.1%)	0.123	911 (51.0%)	908 (50.9%)	-0.003
Barthel Index						
Total dependence	668 (13.6%)	581 (20.1%)	0.173	281 (15.7%)	268 (15.0%)	-0.020
Severe dependence	143 (2.9%)	118 (4.1%)	0.063	64 (3.6%)	60 (3.4%)	-0.012
Moderate dependence	236 (4.8%)	140 (4.8%)	0.001	90 (5.0%)	87 (4.9%)	-0.008
Mild dependence	573 (11.7%)	317 (11.0%)	-0.023	196 (11.0%)	208 (11.7%)	0.021
Independence	2726 (55.5%)	1302 (45.0%)	-0.212	925 (51.8%)	935 (5.2%)	0.011
Missing	563 (11.5%)	436 (15.1%)	0.106	229 (12.8%)	227 (12.7%)	-0.003
JCS						
0 (alert)	4,254 (86.7%)	2,484 (85.8%)	-0.024	1,543 (86.4%)	1,540 (86.3%)	-0.005
1-3 (drowsy)	441 (9.0%)	269 (9.3%)	0.011	157 (8.8%)	156 (8.7%)	-0.002
10-30 (somnolence)	117 (2.4%)	79 (2.7%)	0.022	48 (2.7%)	50 (2.8%)	0.007

100-300 (coma)	97 (2.0%)	62 (2.1%)	0.012	37 (2.1%)	39 (2.2%)	0.008
Admission year						
2010	299 (6.1%)	178 (6.2%)	0.002	106 (5.9%)	109 (6.1%)	0.007
2011	562 (11.4%)	271 (9.4%)	-0.068	186 (10.4%)	174 (9.7%)	-0.022
2012	598 (12.2%)	378 (13.1%)	0.026	220 (12.3%)	222 (12.4%)	0.003
2013	613 (12.5%)	379 (13.1%)	0.018	253 (14.2%)	239 (13.4%)	-0.023
2014	696 (14.2%)	428 (14.8%)	0.017	268 (15.0%)	268 (15.0%)	0.000
2015	652 (13.3%)	386 (13.3%)	0.002	228 (12.8%)	233 (13.1%)	0.008
2016	695 (14.2%)	398 (13.8%)	-0.012	240 (13.4%)	244 (13.7%)	0.007
2017	700 (14.3%)	434 (15.0%)	0.021	260 (14.6%)	269 (15.1%)	0.014
2018	94 (1.9%)	42 (1.5%)	-0.036	24 (1.3%)	27 (1.5%)	0.014
Hospital Volume						
Low (<4)	176 (3.6%)	7 (0.2%)	-0.246	6 (0.3%)	7 (0.4%)	0.009
Middle (4≤ & <14)	916 (18.7%)	117 (4.0%)	-0.474	86 (4.8%)	104 (5.8%)	0.045
High (≥14)	3,817 (77.8%)	2,770 (95.7%)	0.549	1,693 (94.8%)	1,674 (93.8%)	-0.046
Clinical training hospital	4,157 (84.7%)	2,663 (92.0%)	0.230	1,632 (91.4%)	1,620 (90.8%)	-0.024
Emergent admission	3,603 (73.4%)	2,271 (78.5%)	0.119	1,341 (75.1%)	1,337 (74.9%)	-0.005
<i>Comorbid conditions</i>						
Hypertension	992 (20.2%)	705 (24.4%)	0.100	426 (23.9%)	420 (23.5%)	-0.008
Diabetes Mellitus	676 (13.8%)	392 (13.5%)	-0.007	227 (12.7%)	248 (13.9%)	0.035
Dyslipidemia	343 (7.0%)	194 (6.7%)	-0.011	143 (8.0%)	131 (7.3%)	-0.025
Atrial Fibrillation	248 (5.1%)	175 (6.0%)	0.043	106 (5.9%)	105 (5.9%)	-0.002
Malignancy	173(3.5%)	51 (1.8%)	-0.110	49 (2.7%)	42 (2.4%)	-0.025
Chronic Pulmonary Disease	135 (2.8%)	56 (1.9%)	-0.054	42 (2.4%)	43 (2.4%)	0.004
Chronic Liver Disease	266 (5.4%)	95 (3.3%)	-0.105	69 (3.9%)	65 (3.6%)	-0.012
Chronic Renal Disease	359(7.3%)	170 (5.9%)	-0.058	126 (7.1%)	122 (6.8%)	-0.009
<i>In-hospital Complications</i>						

Heart failure	1,212 (24.7%)	1,102 (38.1%)	0.292	577 (32.3%)	581 (32.5%)	0.005
- NYHA II	200 (4.1%)	185 (6.4%)	0.104	108 (6.1%)	109 (6.1%)	0.002
- NYHA III	114 (2.3%)	160 (5.5%)	0.166	73 (4.1%)	75 (4.2%)	0.006
- NYHA IV	81 (1.7%)	161 (5.6%)	0.211	56 (3.1%)	58 (3.2%)	0.006
Stroke	558 (11.4%)	513 (17.7%)	0.181	272 (15.2%)	265 (14.8%)	-0.011
Embolism	208 (4.2%)	183 (6.3%)	0.093	98 (5.5%)	93 (5.2%)	-0.012
Shock	45 (0.9%)	104 (3.6%)	0.181	35 (2.0%)	40 (2.2%)	0.020
DIC	151 (3.1%)	115 (4.0%)	0.049	55 (3.1%)	61 (3.4%)	0.019
<i>Antibiotics for more than 2 weeks</i>						
Penicillin system	1,781 (36.3%)	1,583 (54.7%)	0.376	934 (52.3%)	922 (51.7%)	-0.013
Cephem system	1,282 (26.1%)	1,207 (41.7%)	0.334	659 (36.9%)	654 (36.6%)	-0.006
Carbapenem	260 (5.3%)	340 (11.7%)	0.233	163 (9.1%)	152 (8.5%)	-0.022
Aminoglycoside	1,512 (30.8%)	1,449 (50.1%)	0.400	855 (47.9%)	849 (47.6%)	-0.007
Glycopeptide	541 (11.0%)	696 (24.0%)	0.348	335 (18.8%)	326 (18.3%)	-0.013
Daptomycin	130 (2.6%)	145 (5.0%)	0.123	73 (4.1%)	70 (3.9%)	-0.009
Linezolid	49 (1.0%)	93 (3.2%)	0.155	39 (2.2%)	40 (2.2%)	0.004
Antifungal antibiotics	46 (0.9%)	85 (2.9%)	0.145	33 (1.8%)	30 (1.7%)	-0.013
<i>Intensive Treatment within 2 days after admission</i>						
Admission to HCU	148 (3.0%)	118 (4.1%)	0.057	67 (3.8%)	64 (3.6%)	-0.009
Admission to ICU	317 (6.5%)	938 (32.4%)	0.694	251 (14.1%)	227 (12.7%)	-0.039
Inotropic therapy	336 (6.8%)	900(31.1%)	0.650	234 (13.1%)	207 (11.6%)	-0.046
Ventilation Support	203 (4.1%)	551 (19.0%)	0.479	139 (7.8%)	129 (7.2%)	-0.021
CRRT	49 (1.0%)	86 (3.0%)	0.142	35 (2.0%)	34 (1.9%)	-0.004
IRRT	247 (5.0%)	101 (3.5%)	-0.076	82 (4.6%)	74 (4.1%)	-0.022
PMX-DHP	17 (0.3%)	19 (0.7%)	0.044	9 (0.5%)	8 (0.4%)	-0.008

Data are expressed as the median [interquartile range] or number (percentage). SMD, standardized mean difference; BMI, Body mass index; JCS, Japan Coma Scale; NYHA, New York Heart Association; DIC, Disseminated intravascular coagulation; HCU, high care unit; ICU, intensive care unit; CRRT, continuous renal replacement therapy; IRRT, intermittent renal replacement therapy; PMX-DHP, Polymyxin B-immobilized fiber column-direct hemoperfusion.

Supplemental Table 2b. Unmatched and Propensity-matched Patient Characteristics (65 to 79 years)

Variables	Unmatched Cohort			Propensity-matched Cohort		
	Surgical treatment	Surgical treatment	SMD	Surgical treatment	Surgical treatment	SMD
	(-) (n = 5,628)	(+) (n = 2,246)		(-) (n = 1,625)	(+) (n = 1,625)	
Age, years	73 [69-76]	71 [68-75]	-0.209	72 [68-75]	72 [68-75]	-0.005
Male gender	3,440(61.1%)	1,459(65.0%)	0.080	1038 (63.9%)	1,043 (64.2%)	0.006
BMI, kg/m ²						
<18.5 kg/m ²	957 (17.0%)	397 (17.7%)	0.018	280 (17.2%)	274 (16.9%)	-0.010
18.5-24.9 kg/m ²	3,296 (58.6%)	1,382 (61.5%)	0.061	999 (61.5%)	985 (60.6%)	-0.018
25.0-29.9 kg/m ²	761 (13.5%)	298 (13.3%)	-0.007	226 (13.9%)	228 (14%)	0.004
≥30 kg/m ²	147 (2.6%)	66 (2.9%)	0.020	43 (2.6%)	52 (3.2%)	0.033
Missing	467 (8.3%)	103 (4.6%)	-0.152	77 (4.7%)	86 (5.3%)	0.025
Smoking	2,312(41.1%)	977 (43.5%)	0.049	696 (42.8%)	706 (43.4%)	0.012
Barthel Index						
Total dependence	1,335 (23.7%)	565 (25.2%)	0.033	362 (22.3%)	366 (22.5%)	0.006
Severe dependence	266 (4.7%)	107 (4.8%)	0.002	78 (4.8%)	75 (4.6%)	-0.009
Moderate dependence	430 (7.6%)	159 (7.1%)	-0.021	131(8.1%)	124 (7.6%)	-0.016
Mild dependence	656 (11.7%)	200 (8.9%)	-0.091	156 (9.6%)	156 (9.6%)	0.000
Independence	1996 (35.5%)	772 (34.4%)	-0.023	593 (36.5%)	608 (37.4%)	0.019
Missing	945 (16.8%)	443 (19.7%)	0.076	305 (18.8%)	296 (18.2%)	-0.014
JCS						
0 (alert)	4,473 (79.5%)	1,868 (83.2%)	0.095	1,378 (84.8%)	1,357 (83.5%)	-0.035
1-3 (drowsy)	783 (13.9%)	275 (12.2%)	-0.050	179 (11%)	189 (11.6%)	0.019
10-30 (somnolence)	228 (4.1%)	56 (2.5%)	-0.088	40 (2.5%)	45 (2.8%)	0.019
100-300 (coma)	144 (2.6%)	47 (2.1%)	-0.031	28 (1.7%)	34 (2.1%)	0.027

Admission year

2010	317 (5.6%)	115 (5.1%)	-0.023	90 (5.5%)	80 (4.9%)	-0.028
2011	585 (10.4%)	152 (6.8%)	-0.130	123 (7.6%)	123 (7.6%)	0.000
2012	646 (11.5%)	273 (12.2%)	0.021	193 (11.9%)	194 (11.9%)	0.002
2013	631 (11.2%)	278 (12.4%)	0.036	199 (12.2%)	199 (12.2%)	0.000
2014	738 (13.1%)	331 (14.7%)	0.047	226 (13.9%)	239 (14.7%)	0.023
2015	826 (14.7%)	327 (14.6%)	-0.003	216 (13.3%)	223 (13.7%)	0.013
2016	894 (15.9%)	363 (16.2%)	0.008	274 (16.9%)	262 (16.1%)	-0.020
2017	863 (15.3%)	373 (16.6%)	0.035	274 (16.9%)	277 (17%)	0.005
2018	128 (2.3%)	34 (1.5%)	-0.056	30 (1.8%)	28 (1.7%)	-0.009

Hospital Volume

Low (<4)	254 (4.5%)	2 (0.1%)	-0.298	2 (0.1%)	2 (0.1%)	0.000
Middle (4≤ & <14)	1,097 (19.5%)	116 (5.2%)	-0.447	93 (5.7%)	111 (6.8%)	0.046
High (≥14)	4,277 (76.0%)	2,128 (94.7%)	0.550	1,530 (94.2%)	1,512 (93%)	-0.045
Clinical training hospital	4,613 (82.0%)	2,028 (90.3%)	0.243	1,435 (88.3%)	1,441 (88.7%)	0.012
Emergent admission	4,382 (77.9%)	1,781 (79.3%)	0.035	1,251 (77%)	1,259 (77.5%)	0.012

Comorbid conditions

Hypertension	1,671 (29.7%)	670 (29.8%)	0.003	500 (30.8%)	500 (30.8%)	0.000
Diabetes Mellitus	1,250 (22.2%)	416 (18.5%)	-0.092	309 (19%)	323 (19.9%)	0.022
Dyslipidemia	571 (10.1%)	197 (8.8%)	-0.047	166 (10.2%)	164 (10.1%)	-0.004
Atrial Fibrillation	731 (13.0%)	300 (13.4%)	0.011	211 (13.0%)	219(13.5%)	0.015
Malignancy	503 (8.9%)	113 (5.0%)	-0.154	96 (5.9%)	95 (5.8%)	-0.003
Chronic Pulmonary Disease	211 (3.7%)	47 (2.1%)	-0.098	47 (2.9%)	40 (2.5%)	-0.027
Chronic Liver Disease	263 (4.7%)	64 (2.8%)	-0.096	50 (3.1%)	50 (3.1%)	0.000
Chronic Renal Disease	727 (12.9%)	227 (10.1%)	-0.088	173 (10.6%)	171 (10.5%)	-0.004

In-hospital Complications

Heart failure	1,722 (30.6%)	996 (44.3%)	0.287	666 (41%)	669 (41.2%)	0.004
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- NYHA II	283 (5.0%)	137 (6.1%)	0.047	100 (6.2%)	94 (5.8%)	-0.016
- NYHA III	179 (3.2%)	140 (6.2%)	0.145	86 (5.3%)	85 (5.2%)	-0.003
- NYHA IV	144 (2.6%)	125 (5.6%)	0.153	75 (4.6%)	67 (4.1%)	-0.024
Stroke	686 (12.2%)	325 (14.5%)	0.067	220 (13.5%)	219 (13.5%)	-0.002
Embolism	152 (2.7%)	65 (2.9%)	0.012	52 (3.2%)	46 (2.8%)	-0.022
Shock	57 (1.0%)	84 (3.7%)	0.180	33 (2%)	37 (2.3%)	0.017
DIC	176 (3.1%)	101 (4.5%)	0.072	56 (3.4%)	59 (3.6%)	0.010
<i>Antibiotics for more than 2 weeks</i>						
Penicillin system	1,953 (34.7%)	1,224 (54.5%)	0.406	874 (53.8%)	853 (52.5%)	-0.026
Cephem system	1,383 (24.6%)	819 (36.5%)	0.260	564 (34.7%)	545 (33.5%)	-0.025
Carbapenem	349 (6.2%)	338 (15.0%)	0.290	167 (10.3%)	179 (11%)	0.024
Aminoglycoside	1,496 (26.6%)	972 (43.3%)	0.356	696 (42.8%)	666 (41%)	-0.037
Glycopeptide	776 (13.8%)	676 (30.1%)	0.402	405 (24.9%)	393 (24.2%)	-0.017
Daptomycin	152 (2.7%)	146 (6.5%)	0.182	88 (5.4%)	81 (5.0%)	-0.019
Linezolid	39 (0.7%)	80 (3.6%)	0.200	28 (1.7%)	27 (1.7%)	-0.005
Antifungal antibiotics	93 (1.7%)	144 (6.4%)	0.244	55 (3.4%)	59 (3.6%)	0.013
<i>Intensive Treatment within 2 days after admission</i>						
Admission to HCU	209 (3.7%)	96 (4.3%)	0.029	68 (4.2%)	67 (4.1%)	-0.003
Admission to ICU	410 (7.3%)	645 (28.7%)	0.581	248 (15.3%)	248 (15.3%)	0.000
Inotropic therapy	499 (8.9%)	706 (31.4%)	0.586	293 (18%)	289 (17.8%)	-0.006
Ventilation Support	267 (4.7%)	407 (18.1%)	0.430	141 (8.7%)	151 (9.3%)	0.022
CRRT	91 (1.6%)	84 (3.7%)	0.132	37 (2.3%)	42 (2.6%)	0.020
IRRT	386 (6.9%)	112 (5.0%)	-0.079	96 (5.9%)	91 (5.6%)	-0.013
PMX-DHP	16 (0.3%)	13 (0.6%)	0.045	5 (0.3%)	4 (0.2%)	-0.012

Data are expressed as the median [interquartile range] or number (percentage). SMD, standardized mean difference; BMI, Body mass index; JCS, Japan Coma Scale; NYHA, New York Heart Association; DIC, Disseminated intravascular coagulation; HCU, high care unit; ICU,

intensive care unit; CRRT, continuous renal replacement therapy; IRRT, intermittent renal replacement therapy; PMX-DHP, Polymyxin B-immobilized fiber column-direct hemoperfusion.

Supplemental Table 2c. Unmatched and Propensity-matched Patient Characteristics (≥80 years)

Variables	Unmatched Cohort			Propensity-matched Cohort		
	Surgical treatment	Surgical treatment	SMD	Surgical treatment	Surgical treatment	SMD
	(-) (n = 4,525)	(+) (n = 465)		(-) (n = 414)	(+) (n = 414)	
Age, years	85 [82-88]	82 [81-84]	-0.825	82 [81-84]	82 [81-84]	0.046
Male Gender	2,568 (56.8%)	226 (48.6%)	-0.164	211 (51.0%)	209 (50.5%)	-0.010
BMI, kg/m ²						
<18.5 kg/m ²	1,081 (23.9%)	90 (19.4%)	-0.110	78 (18.8%)	83 (20.0%)	0.031
18.5-24.9 kg/m ²	2,354 (52.0%)	303 (65.2%)	0.269	275 (66.4%)	265 (64.0%)	-0.051
25.0-29.9 kg/m ²	414 (9.1%)	49 (10.5%)	0.047	39 (9.4%)	45 (10.9%)	0.048
≥30 kg/m ²	67 (1.5%)	9 (1.9%)	0.035	6 (1.4%)	7 (1.7%)	0.019
Missing	609 (13.5%)	14 (3.0%)	-0.387	16 (3.9%)	14 (3.4%)	-0.026
Smoking	1,316 (29.1%)	179 (38.5%)	0.200	158 (38.2%)	155 (37.4%)	-0.015
Barthel Index						
Total dependence	1,832(40.5%)	135(29.0%)	-0.242	111 (26.8%)	118 (28.5%)	0.038
Severe dependence	285(6.3%)	25(5.4%)	-0.039	16 (3.9%)	23 (5.6%)	0.080
Moderate dependence	432(9.5%)	41(8.8%)	-0.025	30 (7.2%)	37 (8.9%)	0.062
Mild dependence	470 (10.4%)	52 (11.2%)	0.026	52 (12.6%)	47 (11.4%)	-0.037
Independence	722 (16.0%)	126 (27.1%)	0.274	121 (29.2%)	111 (26.8%)	-0.054
Missing	784 (17.3%)	86 (18.5%)	0.030	84 (20.3%)	78 (18.8%)	-0.037
JCS						
0 (alert)	2,990 (66.1%)	368 (79.1%)	0.296	337 (81.4%)	325 (78.5%)	-0.072
1-3 (drowsy)	1,086 (24.0%)	70 (15.1%)	-0.227	59 (14.3%)	67 (16.2%)	0.054
10-30 (somnolence)	301 (6.7%)	17 (3.7%)	-0.136	11 (2.7%)	14 (3.4%)	0.042
100-300 (coma)	148 (3.3%)	10 (2.2%)	-0.069	7 (1.7%)	8 (1.9%)	0.018

Admission year

2010	191 (4.2%)	23 (4.9%)	0.035	19 (4.6%)	20 (4.8%)	0.011
2011	467 (10.3%)	23 (4.9%)	-0.203	20 (4.8%)	22 (5.3%)	0.022
2012	470 (10.4%)	47 (10.1%)	-0.009	44 (10.6%)	45 (10.9%)	0.008
2013	445 (9.8%)	55 (11.8%)	0.064	51 (12.3%)	52 (12.6%)	0.007
2014	621 (13.7%)	65 (14.0%)	0.007	49 (11.8%)	56 (13.5%)	0.051
2015	604 (13.3%)	81 (17.4%)	0.113	73 (17.6%)	70 (16.9%)	-0.019
2016	794 (17.5%)	80 (17.2%)	-0.009	68 (16.4%)	67 (16.2%)	-0.007
2017	817 (18.1%)	81 (17.4%)	-0.017	82 (19.8%)	74 (17.9%)	-0.049
2018	116 (2.6%)	10 (2.2%)	-0.027	8 (1.9%)	8 (1.9%)	0.000

Hospital Volume

Low (<4)	282 (6.2%)	0 (0.0%)	-0.365	0 (0.0%)	0 (0.0%)	0.000
Middle (4≤ & <14)	1,116 (24.7%)	23 (4.9%)	-0.578	19 (4.6%)	22 (5.3%)	0.033
High (≥14)	3,127 (69.1%)	442 (95.1%)	0.719	395 (95.4%)	392 (94.7%)	-0.033
Clinical training hospital	3,644 (80.5%)	399 (85.8%)	0.141	354 (85.5%)	358 (86.5%)	0.028
Emergent admission	3,894 (86.1%)	372 (80.0%)	-0.162	321 (77.5%)	330 (79.7%)	0.053

Comorbid conditions

Hypertension	1,439 (31.8%)	149 (32.0%)	0.005	129 (31.2%)	133 (32.1%)	0.021
Diabetes Mellitus	711 (15.7%)	80 (17.2%)	0.040	55 (13.3%)	64 (15.5%)	0.062
Dyslipidemia	386 (8.5%)	51 (11.0%)	0.082	42 (10.1%)	42 (10.1%)	0.000
Atrial Fibrillation	637 (14.1%)	61 (13.1%)	-0.028	52 (12.6%)	52 (12.6%)	0.000
Malignancy	365 (8.1%)	32 (6.9%)	-0.045	35 (8.5%)	29 (7%)	-0.054
Chronic Pulmonary Disease	197 (4.4%)	13 (2.8%)	-0.084	16 (3.9%)	13 (3.1%)	-0.039
Chronic Liver Disease	130 (2.9%)	22 (4.7%)	0.097	18 (4.3%)	19 (4.6%)	0.012
Chronic Renal Disease	428 (9.5%)	43 (9.2%)	-0.007	51 (12.3%)	40 (9.7%)	-0.085

In-hospital Complications

Heart failure	1,779 (39.3%)	205 (44.1%)	0.097	187 (45.2%)	184 (44.4%)	-0.015
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- NYHA II	182 (4.0%)	24 (5.2%)	0.054	20 (4.8%)	23 (5.6%)	0.033
- NYHA III	153 (3.4%)	23 (4.9%)	0.078	21 (5.1%)	21 (5.1%)	0.000
- NYHA IV	166 (3.7%)	36 (7.7%)	0.176	29 (7%)	31 (7.5%)	0.019
Stroke	481 (10.6%)	61 (13.1%)	0.077	44 (10.6%)	52 (12.6%)	0.060
Embolism	89 (2.0%)	7 (1.5%)	-0.035	6 (1.4%)	7 (1.7%)	0.019
Shock	53 (1.2%)	20 (4.3%)	0.193	14 (3.4%)	18 (4.3%)	0.050
DIC	154 (3.4%)	22 (4.7%)	0.067	20 (4.8%)	20 (4.8%)	0.000
<i>Antibiotics for more than 2 weeks</i>						
Penicillin system	1,517 (33.5%)	213 (45.8%)	0.253	186 (44.9%)	187 (45.2%)	0.005
Cephem system	1,178 (26.0%)	178 (38.3%)	0.264	164 (39.6%)	155 (37.4%)	-0.045
Carbapenem	378 (8.4%)	80 (17.2%)	0.267	59 (14.3%)	66 (15.9%)	0.047
Aminoglycoside	979 (21.6%)	174 (37.4%)	0.351	142 (34.3%)	147 (35.5%)	0.025
Glycopeptide	622 (13.7%)	161 (34.6%)	0.502	129 (31.2%)	134 (32.4%)	0.026
Daptomycin	101 (2.2%)	29 (6.2%)	0.200	26 (6.3%)	25 (6.0%)	-0.010
Linezolid	31 (0.7%)	14 (3.0%)	0.173	7 (1.7%)	8 (1.9%)	0.018
Antifungal antibiotics	70 (1.5%)	32 (6.9%)	0.268	23 (5.6%)	21 (5.1%)	-0.022
<i>Intensive Treatment within 2 days after admission</i>						
Admission to HCU	162 (3.6%)	16 (3.4%)	-0.008	18 (4.3%)	15 (3.6%)	-0.037
Admission to ICU	219 (4.8%)	128 (27.5%)	0.647	81 (19.6%)	83 (20%)	0.012
Inotropic therapy	369 (8.2%)	131 (28.2%)	0.537	87 (21%)	90 (21.7%)	0.018
Ventilation Support	153 (3.4%)	84 (18.1%)	0.488	48 (11.6%)	48 (11.6%)	0.000
CRRT	30 (0.7%)	19 (4.1%)	0.226	17 (4.1%)	15 (3.6%)	-0.025
IRRT	128 (2.8%)	17 (3.7%)	0.047	19 (4.6%)	15 (3.6%)	-0.049
PMX-DHP	6 (0.1%)	1 (0.2%)	0.020	2 (0.5%)	1 (0.2%)	-0.040

Data are expressed as the median [interquartile range] or number (percentage). SMD, standardized mean difference; BMI, Body mass index; JCS, Japan Coma Scale; NYHA, New York Heart Association; DIC, Disseminated intravascular coagulation; HCU, high care unit; ICU,

intensive care unit; CRRT, continuous renal replacement therapy; IRRT, intermittent renal replacement therapy; PMX-DHP, Polymyxin B-immobilized fiber column-direct hemoperfusion.
