

Table S1. Univariate competing-risks regression analysis.

Variables	SHR (95% confidence interval)	p-value
Methylprednisolone treatment, (refer: no)	0.46 (0.25-0.85)	0.013
Age, year	1.03 (0.99-1.06)	0.062
Male, n (%)	1.18 (0.47-2.98)	0.73
Body mass index, kg.m⁻²	1.02 (0.97-1.07)	0.51
SOFA	1.01 (0.96-1.25)	0.16
SAPS II	1.01 (0.99-1.03)	0.24
Patients with comorbidities, (refer: no)	1.19 (0.67-2.08)	0.55
Comorbidities distribution, (refer: no)		
Diabetes mellitus	0.79 (0.45-1.39)	0.41
Hypertension	1.44 (0.76-2.72)	0.26
Chronic kidney disease	2.16 (1.19-3.91)	0.011
Chronic artery disease	0.93 (0.37-2.34)	0.89
Time from symptoms onset to ICU admission, day	0.97 (0.90-1.04)	0.41
Time from symptoms onset to intubation, day	0.98 (0.91-1.04)	0.48
Time from symptoms onset to Methylprednisolone administration, day	1.00 (0.92-1.08)	0.99
Vital signs on ICU admission		
Temperature (max), °C	1.23 (0.95-1.73)	0.10
Heart rate, beats.min ⁻¹	1.00 (0.99-1.01)	0.27
Respiratory rate, breaths.min ⁻¹	1.01 (0.98-1.04)	0.50
Laboratory data on ICU admission		
C-reactive protein, mg.L ⁻¹	1.00 (0.99-1.001)	0.31
Leucocytes count, × 10 ⁹ .l ⁻¹	0.98 (0.91-1.05)	0.59
Lymphocytes count, × 10 ⁹ .l ⁻¹	1.73 (0.58-5.09)	0.32
Platelet count, × 10 ⁹ .l ⁻¹	1.00 (0.99-1.002)	0.55
Procalcitonin, ng.mL ⁻¹	1.01 (1.00-1.02)	0.005
International normalized ratio	0.84 (0.14-5.18)	0.85
Activated partial thromboplastin time; s	1.01 (0.98-1.04)	0.42
D-dimer, µg.mL ⁻¹	0.86 (0.70-1.06)	0.17
Fibrinogen, g.L ⁻¹	1.09 (0.94-1.26)	0.27
Ferritin, µg.L ⁻¹	1.00 (0.99-1.00)	0.96
Interleukin 6, ng.L ⁻¹	1.00 (0.99-1.00)	0.28
Alanine aminotransferase, IU.mL ⁻¹	1.00 (0.99-1.01)	0.81
Aspartate aminotransferase, IU.mL ⁻¹	1.00 (0.99-1.02)	0.23
Total bilirubin, µmol.L ⁻¹	0.99 (0.97-1.01)	0.47
Creatinine, µmol.L ⁻¹	1.00 (0.99-1.00)	0.09
PaO ₂ /FiO ₂ ratio, mmHg	1.00 (0.99-1.00)	0.19
SaO ₂ , %	0.97 (0.93-1.00)	0.08
PaCO ₂ , mmHg	1.00 (0.98-1.03)	0.66
Lactate, mmol.L ⁻¹	1.38 (0.98-1.93)	0.06
Treatments (refer: no)		
Vasopressor support	2.80 (1.46-5.39)	0.002
Prone position	3.08 (1.60-5.95)	0.001

Neuromuscular blocker agents	2.11 (1.12-3.98)	0.021
Renal replacement therapy	2.12 (0.72-6.27)	0.17
Tocilizumab	1.14 (0.69-1.89)	0.60
Hydroxychloroquine	1.13 (0.64-2.00)	0.67
Favipiravir	0.80 (0.42-1.51)	0.49
Lopinavir/ritonavir	1.11 (0.63-1.98)	0.71
Ventilator parameters		
Tidal volume, mL.kg ⁻¹ IBW	1.07 (0.83-1.37)	0.61
Plateau pressure, cmH ₂ O	1.02 (0.95-1.10)	0.63
Positive end expiratory pressure, cmH ₂ O	1.00 (0.83-1.22)	0.93
Driving pressure, cmH ₂ O	1.01 (0.94-1.09)	0.72
Static respiratory compliance, mL.cmH ₂ O ⁻¹	0.99 (0.95-1.03)	0.68

SOFA, Sequential Organ Failure Assessment; SAPS, Simplified Acute Physiology Score; PaO₂, arterial oxygen tension; PaCO₂, arterial CO₂ tension; FiO₂, Inspiratory oxygen fraction; SaO₂, arterial oxygen saturation; IBW, ideal body weight; ICU, intensive care unit; SHR, sub hazards ratio.

p ≤ 0.05 was considered statistically significant.