



**Figure S1** The levels of inflammatory factors, including IL-2, IL-4, IL-6, IL-10, TNF- $\alpha$ , and IFN- $\gamma$ , at the time of hospital admission. There were no differences between the Arbidol group and the non-Arbidol group. ARB, Arbidol; IL-2, interleukin-2; TNF- $\alpha$ ; tumor necrosis factor- $\alpha$ ; IFN- $\gamma$ ; interferon- $\gamma$ .

**Table S1** Blood biochemistry and treatments

Laboratory items	All patients (N=140)	Non-ARB group (N=61)	ARB group (N=79)	P <sup>a</sup>
<b>Routine blood tests</b>				
White blood cell count, ×10 <sup>9</sup> /L	5.9±3.0	6.2±3.6	5.6±2.4	0.204
Hemoglobin, g/L	138.4±16.3	139.6±16.7	137.3±16.0	0.412
Hematocrit, ratio	0.41±0.05	0.40±0.06	0.41±0.04	0.976
Platelet count, ×10 <sup>9</sup> /L	211.4±68.9	212.8±69.2	210.3±69.1	0.835
Absolute lymphocyte value, ×10 <sup>9</sup> /L	1.3±0.5	1.3±0.53	1.2±0.55	0.473
Absolute neutrophil value, ×10 <sup>9</sup> /L	4.1±3.0	4.5±3.6	3.8±2.4	0.166
<b>Blood biochemistry tests</b>				
Aspartate aminotransferase, U/L	26.8±14.0	27.1±16.3	26.5±11.8	0.801
Alanine aminotransferase, U/L	26.0±20.2	27.0±22.9	25.0±17.8	0.261
Serum creatinine, μmol/L	81.1±35.9	79.2±14.5	82.6±46.5	0.168
Creatine kinase, U/L	90.7±84.6	94.1±86.7	87.7±83.3	0.481
Sodium, mmol/L	138.0±2.7	137.8±2.8	138.1±2.6	0.565
Potassium, mmol/L	3.8±0.4	3.7±0.4	3.8±0.3	0.115
Calcium, mmol/L	2.2±0.2	2.2±0.2	2.2±0.1	0.367
<b>Hemagglutination series</b>				
International normalized ratio	1.0±0.1	1.0±0.1	1.1±0.1	0.180
Prothrombin time, s	11.9±0.8	12.0±0.7	11.8±1.0	0.437
Activated partial thromboplastin time, s	30.3±3.9	30.2±2.8	30.0±2.8	0.759
D-dimer, mg/L	0.40±0.50	0.40±0.40	0.43±0.60	0.185
<b>Blood gas analysis</b>				
pH	7.4±0.0	7.4±0.0	7.4±0.0	0.621
PaCO <sub>2</sub> , mmHg	41.2±4.4	41.4±4.3	41.1±4.6	0.632
Lactate, mmol/L	1.8±0.7	1.8±0.6	1.8±0.8	0.824
PaO <sub>2</sub> /FiO <sub>2</sub> , mmHg	367.3±98.3	363.1±88.6	370.8±106.0	0.655
<b>Treatments</b>				
Onset to hospitalization, median (range), days	2 (0–14)	3 (0–14)	2 (0–12)	0.054
Onset to antiviral therapy, median (range), days	4 (0–20)	5 (0–19)	3 (1–20)	0.311
Glucocorticoid, no./total no. (%)	36/140 (25.7%)	14/61 (23.0%)	22/79 (27.8%)	0.511
Gamma globulin, no./total no. (%)	29/140 (20.7%)	11/61 (18.0%)	18/79 (22.8%)	0.491
<b>Baseline oxygen support</b>				
Ambient air	66/140 (47.1%)	27/61 (44.3%)	39/79 (49.4%)	0.549
Low-flow oxygen	58/140 (41.4%)	28/61 (45.9%)	30/79 (38.0%)	0.345
Nasal high-flow oxygen	16/140 (11.4%)	6/61 (9.8%)	10/79 (12.7%)	0.603

<sup>a</sup>, Student's *t*-test, Mann-Whitney U test,  $\chi^2$  test and Fisher test.