Supplement table 1 Demographics, symptoms, physiology, and clinical outcomes between HFNO patients and IPPV patients

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|  | HFNO group (n=43) | IPPV group (n=13) | *P* |
| Baseline characteristics |  |  |  |
| Age (years) | 63.0±9.7 | 53.9±14.5 | 0.040 |
| Female, n (%) | 18(41.9%) | 3 (23.1%) | 0.330 |
| Body mass index (kg/m2) | 24.2±2.5 | 25.5±4.0 | 0.312 |
| Symptoms, n (%) |  |  |  |
| Fever | 39 (90.7%) | 12 (92.3%) | >0.999 |
| Cough | 31 (72.1%) | 7 (58.3%) | 0.482 |
| Fatigue | 24(55.8%) | 8(66.7%) | 0.500 |
| Dyspnoea | 23 (53.5%) | 9 (69.2%) | 0.315 |
| Sputum production | 19 (44.2%) | 3(25.0%) | 0.324 |
| Comorbidities, n (%) |  |  |  |
| Hypertension | 17 (40.5%) | 6(46.2%) | 0.717 |
| Diabetes | 13 (30.2%) | 1 (7.7%) | 0.149 |
| Days from illness onset to admission (days) | 7.0 (5.0,10.0) | 10.0 (8.0,15.0) | 0.033 |
| Vital signs on admission |  |  |  |
| Temperature (°C) | 37.6±1.0 | 37.3±1.1 | 0.450 |
| Respiratory rate (bpm) | 24.2±5.8 | 23.8±5.6 | 0.684 |
| Heart rate (bpm) | 90.9±13.6 | 96.8±20.0 | 0.233 |
| Mean blood pressure(mmHg) | 92.4±13.6 | 87.3±10.4 | 0.234 |
| SpO2 (%) | 95.0 (93.0,97.0) | 90.0(82.0,93.0) | 0.006 |
| White-cell count (×109/L ) | 7.2±4.2 | 11.9±10.1 | 0.108 |
| Lymphocyte count (×109/L ) | 0.6±0.3 | 0.6±0.4 | 0.713 |
| Clinical outcomes |  |  |  |
| Endotracheal intubation, n(%) | 13/43(30.2%) | 13/13(100%) | <0.001 |
| Death, n (%) | 13/40(32.5%) | 8/12(66.7%) | 0.048 |
| Length of stay in hospital (days) | 15.0(9.0,28.0) | 14.5(8.5,18.0) | 0.354 |

Abbreviations: HFNO= high flow nasal oxygen; IPPV= invasive positive pressure ventilation; SpO2=percutaneous oxygen saturation.