**Supplemental table 1**. Differences between included and excluded patients, based on the availability of a chest CT.

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| --- | --- | --- | --- |
|  | **Included****n = 71** | **Excluded****n = 23** | **p-value for difference** |
| Age (years), median (IQR) | 67.0 (14.0) | 59.0 (± 15.8) | 0.295 |
| Sex, % men | 76.1% | 85.0% | 0.545 |
| Length of ICUa stay (days), median (IQR)  | 18 (20.5) | 11 (12.5) | 0.005 |
| Height (cm), median (IQR) | 175 (11.5) | 178 (10.0) | 0.197 |
| Weight (kg), median (IQR) | 85 (15.0) | 89 (14.5) | 0.397 |
| Body mass index (kg/m2), median (IQR) | 27 (5.2) | 28 (±3.9) | 0.977 |
| Chronic cardiac disease | 1.4% | 0.0% | 1.000 |
| Chronic pulmonary disease | 8.5% | 10.0% | 1.000 |
| Chronic renal disease | 1.4% | 5.0% | 0.393 |
| Liver disease | 1.4% | 0.0% | 1.000 |
| Diabetes mellitus type 2  | 11.4%  | 20.0% | 0.454 |
| Presence of cardiovascular risk factor  |  |  |  |
| Hypertension | 32.9% | 60.0% | 0.744b |
| Dyslipidemia | 20.0% | 20.0% | 1.000 |
| Smoking | 10.0% | 0.0% | 0.341 |
| Obesity | 11.4% | 15.0% | 0.703 |
| APACHE II score (points), median (IQR) | 16 (5.5) | 15 (7.0) | 0.122 |
| Mechanical ventilation, yes % | 92.9% | 90.0% | 0.649 |
| Pressure control, % | 54% | 60% |  |
| Pressure support, %  | 6% | 15% |  |
| CPAP, % | 32% | 15% |  |
| FiO2 high admission, median (IQR) | 70 (26.3) | 75 (20.0) | 0.905 |
| Respiration rate high admission (per minute), median (IQR) | 26.0 (6.5) | 23.5 (10.5) | 0.249 |
| Inspiratory pressure (cm H2O), median (IQR) | 23.5 (11.8) | 26.0 (± 5.8) | 0.193 |
| Positive end-expiratory pressure (cm H2O), median (IQR) | 28.5 (3.5) | 22.0 (7.0) | 0.066 |
| Tidal volume (ml), median (IQR)  | 447 (132) | 438 (82) | 0.617 |
| Arterial blood gas pO2 (kPa), median (IQR) | 9.7 (3.2) | 10.0 (2.5) | 0.770 |
| Arterial blood gas pCO2 (kPa), median (IQR) | 5.3 (2.0) | 6.7 (1.5) | 0.030 |
| Arterial blood gas (pH), median (IQR) | 7.3 (0.2) | 7.5 (0.2) | 0.070 |
| Mean arterial pressure (mmHg), mean (SD) | 99.0 (13.5) | 97.7 (15.4) | 0.737c |
| Vasopressor use, yes % | 60.6% | 52.6% | 0.718b |
| Bilirubin (µg/l\*\*), median (IQR) | 10.3 (8.5) | 9.9 (10.4) | 0.585 |
| Dialysis, yes % | 14.1% | 10.0% | 1.000 |
| Creatinine (µmol/l), median (IQR) | 75.5 (50.3) | 81.0 (58.3) | 0.275 |
| Urine production, (ml/24hours\*\*), median (IQR) | 1110 (1583) | 1200 (1423) | 0.996 |
| Glasgow coma score, median (IQR) | 15 (0) | 15 (0) | 0.800 |
| Thrombocytes (10E9/l), median (IQR) | 323 (152) | 340 (158) | 0.441 |
| Mortality, % deceased | 35.2% | 40.0% | 0.896b |

a ICU indicates Intensive Care Unit, b Chi-square test instead of Fisher’s Exact test.  c Independent sample T-test instead of Mann-Whitney U test.

Differences were tested using Mann-Whitney U test or Fisher’s Exact test, unless indicated otherwise.