**Supplemental Table 1: Characteristics of septic and non-septic critically ill patients in the EPSIS cohort**

|  |  |  |  |
| --- | --- | --- | --- |
| **Categories** | **Non-septic patients**  | **Septic patients** | **p-value\*** |
| Number of patients | 68 | 66 |  |
| **Demographics** |  |  |  |
|  Age, Mdn (IQR), yr | 67 (19.5) | 66 (24.0) | 0.83 |
|  Sex, female, % | 30.9  | 45.5 | 0.11σ  |
| **Severity indices** |  |  |  |
|  MODS Day 1, Mdn (IQR) | 8 (4) | 8 (4) | 0.41 |
|  MODS ≥ 9, % | 47.0 | 48.5 | 1σ |
| **Vasopressors Day 1, %** | 61.8 | 69.7 | 0.37 σ |
| **Mechanical ventilation Day 1, %** | 94.1 | 96.7 | 0.68 σ |
| **Renal replacement therapy, %** | 4.4 | 6.1 | 0.71 σ |
| **Comorbidities**  |  |  |  |
|  Cancer, % | 13.2 | 12.1 | 1 σ |
|  Immunosuppression,% | 10.3 | 9.1 | 1 σ |
| **Estimated proportion of leukocytes (%),** Mdn (IQR) \*\* |  |  |  |
|  Neutrophil(%) | 79.7 (40.0) | 80.8 (39.3) | 0.64 |
|  Monocyte (%)  | 14.6 (16.5) | 11.3 (15.4) | 0.43 |
|  B-cell (%),  | 1.6 (5.0) | 2.5 (6.0) | 0.60 |
|  NK cell (%),  | 0.2 (3.2) | 0 (4.0) | 0.74 |
|  CD4 cell (%) | 3.3 (11.6) | 3.6 (9.0) | 0.79 |
|  CD8 cell (%) | 0 (0) | 0 (0) | 0.19 |
| **Outcomes** |  |  |  |
|  Overall mortality, % | 36.8 | 40.1 | 0.72σ |
|  ICU mortality, % | 35.3 | 34.8 |  1 σ |
|  Hospital mortality % | 1.5 | 6.1 | 0.21 σ |
|  14 day mortality, %  | 23.5 | 30.3 | 0.55 σ |
|  30 day mortality % | 33.8 | 37.9 | 1 σ |
|  Days to hospital discharge,  Mdn (IQR) | 22 (20.5) | 29 (26.0) | 0.17 |

\*Wilcoxon rank sum test, unless otherwise stated; \*\* Estimated cell proportions < 0.1 % rounded to 0; σ Fisher exact test; Mdn, Median; IQR, interquartile range; SD, standard deviation; yr, years; MODS, Multiple Organ Dysfunction Score; ICU, intensive care unit; NK, natural killer cell.