**Table 3. Factors associated with favorable functional outcome**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Unfavorable outcome  (n=25) | Favorable outcome  (n=16) | p-value | SAPS 2-adjusted odds ratio (95% CI) | p-value adjusted for SAPS 2 |
| Age, years | 56 [46-68] | 54 [46-57] | 0.61 | 0.98 (0.92;1.03) | 0.36 |
| Female gender | 7 (28) | 3 (19) | 0.50 | 0.58 (0.12;2.74) | 0.49 |
| BMI, kg/m² | 26 [24-29] | 26 [25-29] | 0.90 | 1.02 (0.91;1.15) | 0.66 |
| Diabetes mellitus | 5 (20) | 1 (6) | 0.22 | 0.27 (0.03;2.53) | 0.20 |
| Hypertension | 6 (24) | 8 (50) | 0.08 | 3.57 (0.89;15.94) | 0.07 |
| SAPS2 | 31 [24-38] | 28 [24-35] | 0.25 | \_ | \_ |
| Initial PaO2/FiO2 ratio | 109 [81-196] | 136 [97-201] | 0.45 | 0.99 (0.99;1.00) | 0.94 |
| Body temperature, T°C | 38.6 [37.9-39.8] | 38.1 [37.6-38.8] | 0.20 | 0.66 (0.34;1.26) | 0.19 |
| GCS score | 15 [15-15] | 15 [15-15] | 0.99 | 1.00 (0.78;1.28) | 0.98 |
| Minimal PaO2/FiO2 ratio | 81 [65-93] | 84 [66-113] | 0.90 | 0.99 (0.98;1.01) | 0.85 |
| Neuromuscular blockade |  |  |  |  |  |
| N (%) | 22 (88) | 12 (80) | 0.65 | 0.54 (0.09;3.14) | 0.49 |
| Duration, days | 7 [2-13] | 4 [3-7] | 0.21 | 0.87 (0.68;1.02) | 0.08 |
| Prone positioning |  |  |  |  |  |
| N (%) | 17 (68) | 9 (56) | 0.45 | 0.60 (0.16;2.21) | 0.44 |
| N of sessions | 2 (0-4) | 1 (0-2) | 0.12 | 0.69 (0.43;1.03) | 0.07 |
| Venovenous ECMO | 4 (100) | 0 (0) | 0.14 | NA | NA |
| Duration of sedation, days | 15 [9-20] | 8 [5-12] | 0.21 | 0.87 (0.73;0.99) | 0.04 |
| Antipsychotics | 3 (27) | 5 (42) | 0.66 | 1.77 (0.29;11.96) | 0.53 |
| Alpha-2 agonists | 4 (36) | 10 (83) | 0.04 | 8.57 (1.38;78.13) | 0.02 |
| Duration of mechanical ventilation, days | 43 [20-60] | 25 [10-33] | 0.19 | 0.94 (0.89;0.98) | <0.01 |
| Renal replacement therapy | 9 (36) | 2 (12) | 0.15 | 0.24 (0.03;1.18) | 0.08 |
| Norepinephrine | 17 (68) | 10 (67) | 0.93 | 0.94 (0.24;3.87) | 0.92 |
| Tracheostomy | 12 (48) | 1 (6) | <0.01 | 0.07 (0.04;0.44) | <0.01 |
| Corticosteroids |  |  |  |  |  |
| N (%) | 22 (88) | 8 (50) | 0.01 | 0.13 (0.03;0.64) | <0.01 |
| N of days | 10 [10-10] | 5 [0-10] | 0.05 | 0.84 (0.72;0.96) | <0.01 |
| ICU length of stay, days | 28 [13-49] | 12 [6-16] | <0.01 | 0.89 (0.82;0.97) | <0.01 |
| Hospital length of stay, days | 52 [33-72] | 26 [18-30] | <0.01 | 0.92 (0.86;0.97) | <0.01 |

A favorable functional outcome was defined by an mRS score of 0 to 1, indicating survival without functional disability. Results are expressed as medians [quartiles] for continuous variables and numbers (%) for qualitative variables. Data were compared with non-parametric tests and the chi-square test (or 2-tail Fisher’s exact test) for continuous and categorical variables, respectively. BMI : Body Mass Index, SAPS 2 : Simplified Acute Physiology Score 2, GCS : Glasgow Coma Scale, ECMO : Extracorporeal Membrane Oxygenation, ICU : Intensive Care Unit.