|  |  |  |  |
| --- | --- | --- | --- |
|  | **Target RASS -5 (N=285)** | **Target RASS -4 (N=118)** | **p-value** |
| Ventilator free days 10 | 1.4 (0.0-6.9) | 3.2 (0.0-7.1) | 0.441 |
| ICU free days 10 | 0 (0.0-2.2) | 0 (0.0-1.7) | 0.851 |
| First spontaneous breathing | 2.2 (1.9-2.9) | 1.9 (1.8-2.2) | **<0.001** |
| Duration of spontaneous breathing 48h | 0 (0-2.2) | 1.6 (0-4.6) | **<0.001** |
| Duration of spontaneous breathing 72h | 10.8 (1.3-21.8) | 18.5 (8.2-26.2) | **<0.001** |
| Duration of spontaneous breathing 120h | 47.9 (20.8-64.0) | 58.2 (30.6-72.9) | **0.008** |
| Sufentanil (µg/kg/min) 12h | 0.010 (0.007-0.014) | 0.003 (0.002-0.005) | **<0.001** |
| Sufentanil (µg/kg/min) 24h | 0.011 (0.007-0.015) | 0.003 (0.002-0.005) | **<0.001** |
| Isofluran (MAC) 12h (N=209/88) | 0.70 (0.55-0.85) | 0.65 (0.55-0.80) | 0.27 |
| Isofluran (MAC) 24h (N=209/88) | 0.75 (0.60-0.90) | 0.70 (0.50-0.80) | **0.002** |
| Propofol (mg/kg/min) 12h (N=76/30) | 0.023 (0.015-0.035) | 0.022 (0.014-0.033) | 0.861 |
| Propofol (mg/kg/min) 24h (N=76/30) | 0.024 (0.012-0.033) | 0.027 (0.014-0.039) | 0.248 |
| RASS (mean±SD) 6h | -4.83±0.541 | -4.69±0.466 | **<0.001** |
| RASS (mean±SD) 12h | -4.87±0.348 | -4.67±0.507 | **<0.001** |
| RASS (mean±SD) 24h | -4.84±0.454 | -4.58±0.687 | **<0.001** |
| RASS at least once >-5 during the first 24h | 79 (27.7%) | 69/118 (58.5%) | **<0.001** |
|  |  |  |  |
|  |  |  |  |

Supplemental table 1 Outcome characteristics

p value reported in bold if difference is significant (p < 0.05). Data are given as median and interquartile range (25th-75th) or number of patients (percent of all patients in group)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RASS -5 |  | OR | 95% CI | | p-value |
| Time of admission (months) | | 1.01 | 0.98 - | 1.04 | 0.445 |
| Age |  | 0.95 | 0.93 - | 0.97 | <0.001 |
| Female sex | | 0.71 | 0.37 - | 1.34 | 0.287 |
| Shockable rhythm | | 4.10 | 2.28 - | 7.35 | <0.001 |
| Bystander CPR | | 2.01 | 1.15 - | 3.49 | 0.014 |
| Duration of CPR | | 0.94 | 0.92 - | 0.97 | <0.001 |
| MAP 12h after CPR | | 1.01 | 0.97 - | 1.05 | 0.635 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RASS -4 |  | OR | 95% CI | | p-value |
| Time of admission (months) | | 0.98 | 0.90 - | 1.06 | 0.542 |
| Age |  | 0.93 | 0.89 - | 0.97 | <0.001 |
| Female sex | | 0.59 | 0.21 - | 1.68 | 0.326 |
| Shockable rhythm | | 3.22 | 1.26 - | 8.21 | 0.015 |
| Bystander CPR | | 1.13 | 0.47 - | 2.75 | 0.780 |
| Duration of CPR | | 0.94 | 0.90 - | 0.98 | 0.005 |
| MAP 12h after CPR | | 1.04 | 0.95 - | 1.14 | 0.376 |

Supplemental table 2 Time trend

Multivariable logistic regression analysis with odds ratio (95% confidence intervall) for predictors of favorable outcome. The upper table includes only patients with target RASS -5 (time of admission 08/2016-08/2019), the lower table includes only patients with target RASS -4 (time of admission 09/2019-03/2021). Mean arterial pressure (MAP)