**Supplementary Table 2.** Univariable logistic regression analysis

| Variable                                                                 | OR      | 95% CI            | P–value |
|--------------------------------------------------------------------------|---------|-------------------|---------|
| Admission to a light room                                                | 0.363   | 0.178–0.739       | 0.005   |
| Age                                                                      | 1.006   | 0.984–1.029       | 0.58    |
| Sex                                                                      | 1.509   | 0.753–3.027       | 0.245   |
| Body mass index                                                          | 0.961   | 0.890–1.038       | 0.308   |
| Smoking                                                                  |         |                   | 0.095   |
| Ever                                                                     | 0.365   | 0.113–1.179       | 0.092   |
| Alcohol abuse                                                            | 2.374   | 0.988–5.702       | 0.053   |
| Underlying disease                                                       |         |                   |         |
| Hypertension                                                             | 1.243   | 0.623–2.481       | 0.536   |
| Diabetes mellitus                                                        | 1.041   | 0.520–2.085       | 0.91    |
| Chronic liver disease                                                    | 0.698   | 0.238–2.050       | 0.512   |
| Chronic kidney disease                                                  | 0.594   | 0.270–1.306       | 0.193   |
| Cardiovascular disease                                                  | 0.9     | 0.425–1.905       | 0.783   |
| Cerebrovascular disease                                                 | 0.865   | 0.257–2.914       | 0.815   |
| Cognitive disorder                                                       | 0.725   | 0.073–7.155       | 0.782   |
| Chronic obstructive pulmonary disease                                    | 0.725   | 0.073–7.155       | 0.782   |
| Hypoxic brain injury                                                     | 0.664   | 0.590–0.747       | 0.027   |
| ICU admission diagnosis                                                  |         |                   |         |
| Respiratory failure                                                      | 1.73    | 0.816–3.665       | 0.151   |
| Sepsis                                                                   | 1.793   | 0.752–4.276       | 0.185   |
| Renal replacement therapy                                                | 0.571   | 0.214–1.525       | 0.26    |
| Cardiogenic cause                                                        | 0.539   | 0.203–1.432       | 0.21    |
| Hypovolemic shock                                                        | 0.981   | 0.954–1.008       | 0.336   |
| Post operation care                                                      | 0.981   | 0.954–1.008       | 0.336   |
| Trauma                                                                   |         |                   |         |
| Other                                                                    | 0.996   | 0.325–3.047       | 0.994   |
| APACHE II score                                                          | 0.97    | 0.932–1.010       | 0.134   |
| SOFA                                                                     | 0.944   | 0.869–1.025       | 0.17    |
| SAPS II                                                                  | 0.995   | 0.978–1.012       | 0.581   |
| Mechanical ventilation                                                  | 1.965   | 0.742–5.204       | 0.169   |
| Duration of mechanical ventilation (day)                                 | 1.03    | 0.999–1.062       | 0.058   |
| Duration of mechanical ventilation free day                              | 1.057   | 0.989–1.129       | 0.104   |
| Medical history                                                          |         |                   |         |
| Antipsychotics                                                           | 1.633   | 0.490–5.440       | 0.421   |
| Benzodiazepine                                                           | 2.078   | 0.706–6.117       | 0.177   |
| Hypnotics                                                                | 2.007   | 0.635–6.339       | 0.228   |
| Steroid                                                                  | 2.117   | 1.014–4.421       | 0.044   |
| Alcohol abuse                                                            | 0.426   | 0.048–3.752       | 0.429   |
| Use of opioids and hypnotics                                             |         |                   |         |
| Duration of morphine administration (day)                                | 0.975   | 0.761–1.250       | 0.841   |
| Duration of remifentanin administration (day)                            | 1.044   | 1.009–1.081       | 0.014   |
| Duration of fentanyl administration (day)                                | 0.981   | 0.625–1.540       | 0.933   |
| Duration of midazolam administration (day)                               | 1.079   | 0.941–1.237       | 0.277   |
| Duration of propofol administration (day)                                | 1.038   | 1.005–1.078       | 0.047   |
| Duration of dexmedetomidine administration (day)                        | 1.034   | 0.9997–1.069      | 0.052   |

(Continued to the next page)
### Supplementary Table 2. Continued

| Variable                              | OR      | 95% CI       | P-value |
|---------------------------------------|---------|--------------|---------|
| Opioid                                | 1.643   | 0.650–4.153  | 0.291   |
| Sedative                              | 0.964   | 0.383–2.422  | 0.937   |
| Vasoactive agents                     |         |              |         |
| Norepinephrine                        | 1.095   | 0.527–2.276  | 0.808   |
| Epinephrine                           | 3.248   | 1.129–9.345  | 0.023   |
| Dopamine                              | 0.539   | 0.203–1.432  | 0.21    |
| Dobutamine                            | 0.725   | 0.073–7.155  | 0.782   |
| Vasopressin                           | 1.546   | 0.659–3.625  | 0.314   |
| Renal replacement therapy             | 0.681   | 0.329–1.410  | 0.3     |
| ECMO                                  | 0.824   | 0.276–2.462  | 0.729   |
| Self-extubation                       | 1.098   | 0.097–12.416 | 0.94    |
| Hospital LOS                          | 1.016   | 1.006–1.026  | 0.001   |
| ICU LOS                               | 1.039   | 1.008–1.070  | 0.013   |

APACHE: Acute Physiology and Chronic Health Evaluation; SOFA: Sepsis Organ Failure Assessment; SAPS: Simplified Acute Physiology Score; ECMO: extracorporeal membrane oxygenation; ICU: intensive care unit; LOS: length of stay.