**Supplemental digital content 2: Cox regression analysis in patients with ARDS (n=136)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Single predictor |  | Multiple predictors |
|  |  | Initial |  | Restricted |
| Covariable | Hazard Ratio (95% CI) | p-value |  | Hazard Ratio (95% CI) | p-value |  | Hazard Ratio (95% CI) | p-value |
| Aquaporin 5 –1364A/C genotype* AA
* **AC**
* **CC**
 | 1**0.30 (0.12-0.75)****0.44 (0.06-3.19)** | -**0.011****0.437** |  | 1**0.31 (0.89-1.06)****0.29 (0.04-2.33)** | -**0.062****0.245** |  | 1**0.26 (0.09-0.75)****0.40 (0.06-2.99)** | -**0.012****0.377** |
| Sex* Women
* Men
 | 10.97 (0.56-2.21) | -0.654 |  | 11.40 (0.61-3.23) | -0.431 |  |  |  |
| Age [years] | 1.01 (0.98-1.03) | 0.531 |  | 1.01 (0.98-1.03) | 0.622 |  |  |  |
| Body mass index [kg/m2]\* | 0.93 (0.87-1.00) | 0.059 |  | 0.92 (0.83-1.02**)** | 0.102 |  |  |  |
| **SAPS II [per unit]** | **1.04 (1.01-1.06)** | **0.006** |  | **1.04 (1.01-1.06)** | **0.008** |  | **1.02 (1.01-1.04)** | **0.013** |
| paO2 / FiO2\*\* | 1.00 (0.99-1.00) | 0.193 |  | 1.00 (0.99-1.00) | 0.161 |  |  |  |
| Dialysis* No
* Yes
 | 11.37 (0.66-2.87) | -0.398 |  | 11.21 (0.48-3.09) | -0.686 |  |  |  |
| ECMO* No
* Yes
 | 11.16 (0.51-2.61) | -0.723 |  | 10.77 (0.28-2.10) | -0.611 |  |  |  |
| C-reactive protein concentration [mg/dL]§ | 0.99 (0.96-1.02) | 0.542 |  | 0.98 (0.96-1.01) | 0.294 |  |  |  |
| **Total serum bilirubin concentration [mg/dL]\*** | **1.31 (1.08-1.59)** | **0.006** |  | **1.19 (1.00-1.41)** | **0.050** |  | **1.13 (1.04-1.24)**  | **0.006** |
| Platelet concentration [109/L]π | 0.99 (0.99-1.00) | 0.107 |  | 1.00 (0.99-1.00) | 0.209 |  |  |  |

Hazard ratio point estimates, 95% CI, and p-values (two-sided) are reported, SAPS II: Simplified Acute Physiology Score, ECMO: extracorporeal membrane oxygenation

Missing data were right censored: \* One case missing, § Eight cases missing, π Seven cases missing. Homer-Lemeshow statistics were as follows: κ2=8.538; p=0.383