**TABLE S2. Factors Associated With Mortality at 90 Days After Venoarterial Extracorporeal Membrane Oxygenation Initiation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Univariable Logistic** **Regression** |  | **Multivariable Logistic** **Regression** |
| **Variables** | **Missing****Data****(%)** | **OR (95% CI)** | ***p*** |  | **OR (95% CI)** | ***p*** |
| Male gender | 0 | 1.08 | (0.37-3.16) | 0.891 |  |  |  |  |
| Age (yr) | 0 | 1.03 | (1.00-1.06) | 0.079 |  |  |  |  |
| ≥65 vs. <65 (yr) | 0 | 1.91 | (0.59-6.21) | 0.284 |  |  |  |  |
| Weight (kg) | 0 | 1.02 | (0.98-1.05) | 0.364 |  |  |  |  |
| Body mass index (kg/m2) | 0 | 1.13 | (0.98-1.30) | 0.107 |  |  |  |  |
| Ischemic heart disease | 0 | 2.91 | (1.07-7.92) | 0.037 |  | 7.39 | (1.57-34.7) | 0.011 |
| Acute myocardial infarction | 0 | 1.91 | (0.73-4.97) | 0.186 |  |  |  |  |
| Smoking | 0 | 1.08 | (0.42-2.78) | 0.867 |  |  |  |  |
| Hypertension | 0 | 1.24 | (0.48-3.20) | 0.658 |  |  |  |  |
| Valvular heart disease  | 0 | 1.09 | (0.40-2.94) | 0.866 |  |  |  |  |
| Dyslipidemia  | 0 | 2.41 | (0.76-7.71) | 0.137 |  |  |  |  |
| Diabetes mellitus | 0 | 1.90 | (0.53-6.86) | 0.328 |  |  |  |  |
| Priora myocardial infarction | 0 | 1.60 | (0.37-6.98) | 0.532 |  |  |  |  |
| Priora PCI | 0 | 2.01 | (0.36-11.2) | 0.423 |  |  |  |  |
| Priora cardiac surgery | 0 | 1.57 | (0.27-9.16) | 0.618 |  |  |  |  |
| Atrial fibrillation | 0 | 5.14 | (0.59-45.2) | 0.140 |  |  |  |  |
| Chronic renal failure | 0 | 3.24 | (0.34-30.6) | 0.304 |  |  |  |  |
| Intoxication | 0 | 0.17 | (0.02-1.59) | 0.120 |  |  |  |  |
| Primary graft failure after heart transplantation | 0 | 0.74 | (0.10-5.59) | 0.774 |  |  |  |  |
| Acute myocarditis | 0 | 0.36 | (0.03-4.19) | 0.416 |  |  |  |  |
| Acute pulmonary embolus | 0 | 1.54 | (0.13-17.8) | 0.730 |  |  |  |  |
| Endocarditis | 0 | 0.36 | (0.03-4.19) | 0.416 |  |  |  |  |
| Cardiac arrest location |  |  |  |  |  |  |  |  |
| Out-of-hospital  | 0 | 0.56 | (0.14-2.30) | 0.422 |  |  |  |  |
| In-hospital  | 0 | 1.78 | (0.44-7.27) | 0.422 |  |  |  |  |
| Intensive care unit | 0 | 1.14 | (0.41-3.14) | 0.807 |  |  |  |  |
| Catherization laboratory | 0 | 1.72 | (0.57-5.27) | 0.339 |  |  |  |  |
| Ward | 0 | 0.48 | (0.14-1.68) | 0.248 |  |  |  |  |
| Operating room | 0 | 1.39 | (0.37-5.25) | 0.627 |  |  |  |  |
| Initial cardiac rhythm |  |  |  |  |  |  |  |  |
| Shockable rhythm | 0 | 0.15 | (0.05-0.43) | < 0.001 |  |  |  |  |
| Nonshockable rhythm | 0 | 6.51 | (2.31-18.7) | < 0.001 |  | 12.2 | (2.83-52.7) | 0.001 |
| Absence of return of spontaneous circulationb | 0 | 7.69 | (2.59-22.8) | < 0.001 |  | 2.46 | (0.51-11.9) | 0.262 |
| Low-flow duration (min) | 0 | 1.02 | (1.01-1.03) | 0.008 |  | 1.01 | (0.99-1.03) | 0.398 |
| Mean arterial pressure (mmHg)c | 0 | 0.92 | (0.88-0.97) | 0.002 |  |  |  |  |
| Arterial pHc | 0 | 0.03 | (0.00-0.31) | 0.004 |  |  |  |  |
| Arterial lactate (mmol/L)c  | 0 | 1.17 | (1.07-1.27) | < 0.001 |  | 1.15 | (1.01-1.31) | 0.041 |
| Hemoglobin (g/L)c  | 0 | 1.00 | (0.98-1.02) | 0.983 |  |  |  |  |
| International normalized ratio | 6.9 | 1.00 | (0.53-1.90) | 1.000 |  |  |  |  |
| Creatinine (µmol/L)  | 2.8 | 1.00 | (0.99-1.01) | 0.693 |  |  |  |  |
| Glomerular filtration rate modification of diet in renal disease (mL/min/1.73m2) | 2.8 | 1.00 | (0.99-1.01) | 1.000 |  |  |  |  |
| Alanine aminotransferase (µkat/L) | 14 | 1.02 | (0.98-1.01) | 0.373 |  |  |  |  |
| Pre-VA ECMO interventions |  |  |  |  |  |  |  |  |
| Acute coronary angiography | 0 | 1.63 | (0.63-4.20) | 0.316 |  |  |  |  |
| Acute PCI | 0 | 1.29 | (0.49-3.37) | 0.607 |  |  |  |  |
| Cardiac surgery | 0 | 1.34 | (0.53-3.53) | 0.518 |  |  |  |  |
| Hemodialysis | 0 | 1.60 | (0.37-6.98) | 0.532 |  |  |  |  |
| Intra-aortic balloon pump | 0 | 1.30 | (0.29-5.89) | 0.737 |  |  |  |  |
| No. of inotropes and vasopressorsc,d | 0 | 1.52 | (0.93-2.50) | 0.098 |  |  |  |  |
| Retrieval from external hospital | 0 | 0.70 | (0.27-1.81) | 0.463 |  |  |  |  |

OR = odds ratio, PCI = percutaneous coronary intervention, VA ECMO = venoarterial extracorporeal membrane oxygenation.

aPrior to current medical event/admission.

bContinuous chest compressions at cannulation.

cJust before cannulation.

dEpinephrine, norepinephrine, dobutamine, dopamine, vasopressin, milrinone, levosimendan.

Statistical significance was set by p value of less than 0.05.