**TABLE S1. Comparison of Pre-Venoarterial Extracorporeal Membrane Oxygenation Characteristics Between Survivors and Nonsurvivors at 90 Days After Venoarterial Extracorporeal Membrane Oxygenation Initiation**

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| --- | --- | --- | --- | --- |
| **Pre-VA ECMO Characteristics** | **All patients,**  ***n* = 72** | **Survivors,**  ***n* = 31** | **Nonsurvivors,**  ***n* = 41** | ***p*** |
| Male gender | 54 (75) | 23 (43) | 31 (57) | 0.891 |
| Age (yr) | 56 (43-65; 11-76) | 50 (36-62; 17-76) | 59 (50-66; 11-76) | 0.065 |
| ≥65 (yr) | 16 (22) | 5 (31) | 11 (69) | 0.280 |
| Weight (kg) | 80 (73-90; 39-114) | 78 (67-90; 51-102) | 81 (75-90; 39-114) | 0.308 |
| Body mass index (kg/m2) | 25.9 (23.6-28.3) | 24.7 (23.1-27.8) | 26.6 (24.1-29.2) | 0.098 |
| Ischemic heart disease | 47 (65) | 16 (34) | 31 (66) | 0.034 |
| Acute myocardial infarction | 32 (44) | 11 (34) | 21 (66) | 0.183 |
| ST-elevation myocardial infarction | 31 (43) | 11 (35) | 20 (65) | 0.259 |
| Smoking | 31 (43) | 13 (42) | 18 (58) | 0.867 |
| Hypertension | 30 (42) | 12 (40) | 18 (60) | 0.658 |
| Valvular heart disease | 24 (33) | 10 (42) | 14 (58) | 0.867 |
| Dyslipidemia | 18 (25) | 5 (28) | 13 (72) | 0.131 |
| Diabetes mellitus | 13 (18) | 4 (31) | 9 (69) | 0.323 |
| Hypertrophic cardiomyopathy | 6 (8.3) | 1 (17) | 5 (83) | 0.227 |
| Priora myocardial infarction | 9 (13) | 3 (33) | 6 (67) | 0.723 |
| Atrial fibrillation | 7 (9.7) | 1 (14) | 6 (86) | 0.227 |
| Priora PCI | 7 (9.7) | 2 (29) | 5 (71) | 0.691 |
| Priora cardiac surgery | 6 (8.3) | 2 (33) | 4 (67) | 0.693 |
| Chronic renal failure | 5 (6.9) | 1 (20) | 4 (80) | 0.382 |
| Intoxication | 5 (6.9) | 4 (80) | 1 (20) | 0.158 |
| Primary graft failure after  heart transplantation | 4 (5.6) | 2 (50) | 2 (50) | 1.000 |
| Acute myocarditis | 3 (4.2) | 3 (100) | 0 (0) | 0.075 |
| Acute pulmonary embolus | 3 (4.2) | 1 (33) | 2 (67) | 1.000 |
| Endocarditis | 3 (4.2) | 2 (67) | 1 (33) | 0.574 |
| Cardiac arrest location |  |  |  |  |
| Out-of-hospital | 9 (12) | 5 (56) | 4 (44) |  |
| In-hospital | 63 (88) | 26 (41) | 37 (59) | 0.485 |
| Intensive care unit | 22 (31) | 9 (41) | 13 (59) | 0.807 |
| Catherization laboratory | 18 (25) | 6 (33) | 12 (67) | 0.336 |
| Ward | 12 (17) | 7 (58) | 5 (42) | 0.242 |
| Operating room | 11 (15) | 4 (36) | 7 (64) | 0.626 |
| Initial cardiac arrest rhythm |  |  |  |  |
| Shockable rhythm | 31 (43) | 21 (68) | 10 (32) |  |
| Nonshockable rhythm | 41 (57) | 10 (24) | 31 (76) | < 0.001 |
| No-flow duration (min) | 0 (0) | 0 (0) | 0 (0) |  |
| Low-flow duration (min) | 21 (10-73; 1-197) | 10 (2-45; 1-120) | 32 (20-100; 1-197) | < 0.001 |
| ROSC | 26 (36) | 19 (73) | 7 (27) |  |
| Time to ROSC (min) | 10 (2-17; 1-48) | 5 (2-10; 1-20) | 20 (17-30; 15-48) | < 0.001 |
| Absence of ROSCb | 46 (64) | 12 (26) | 34 (74) | < 0.001 |
| Time to cannulation (min) | 49 (20-107; 1-197) | 55 (20-87; 1-120) | 47 (20-116; 1-197) | 0.670 |
| Mean arterial pressure (mmHg)c | 50 (40-59) | 55 (45-53) | 45 (40-53) | 0.001 |
| Arterial pHc | 7.10 (6.94-7.30;  6.55-7.57) | 7.18 (7.06-7.34;  6.63-7.57) | 7.04 (6.90-7.22;  6.55- 7.39) | 0.002 |
| Arterial lactate (mmol/L)c | 12.0 (5.2-17.0;  1.3-28.0) | 8.0 (2.9-12.9;  1.3-20.0) | 15.0 (10.6-19.0;  1.6-28.0) | < 0.001 |
| <10 (mmol/L) | 28 (39) | 19 (68) | 9 (32) |  |
| 10-20 (mmol/L) | 36 (50) | 12 (33) | 24 (67) |  |
| >20 (mmol/L) | 8 (11) | 0 (0) | 8 (100) | 0.001 |
| <17 (mmol/L) | 51 (71) | 28 (55) | 23 (45) |  |
| ≥17 (mmol/L) | 21 (29) | 3 (14) | 18 (86) | 0.002 |
| Hemoglobin (g/L)c | 109 (90-131) | 114 (90-131) | 108 (90-128) | 0.785 |
| International normalized ratio | 1.3 (1.1-1.6) | 1.3 (1.1-1.6) | 1.4 (1.1-1.7) | 0.589 |
| Creatinine (µmol/L) | 130 (96-170) | 133 (81-179) | 124 (108-167) | 0.887 |
| Glomerular filtration rate modification of diet in renal disease (mL/min/1.73 m2) | 50 (38-71) | 49 (40-77) | 53 (35-66) | 0.943 |
| Alanine aminotransferase (µkat/L) | 2.13 (0.91-6.92) | 1.71 (0.91-5.50) | 2.53 (0.97-12.59) | 0.401 |
| Pre-VA ECMO interventions |  |  |  |  |
| Acute coronary angiography | 42 (58) | 16 (38) | 26 (62) | 0.315 |
| Acute PCI | 28 (39) | 11 (39) | 17 (61) | 0.606 |
| Cardiac surgery | 31 (43) | 12 (39) | 19 (61) | 0.571 |
| Hemodialysis | 9 (13) | 3 (33) | 6 (67) | 0.723 |
| No. of inotropes and vasopressorsc,d | 2 (2-3) | 2 (1-3) | 3 (2-3) | 0.073 |
| Intra-aortic balloon pump | 8 (11) | 3 (37) | 5 (63) | 1.000 |
| Retrieval from external hospital | 29 (40) | 14 (48) | 15 (52) | 0.463 |
| VA ECMO insertion periode |  |  |  |  |
| 2011-2015 | 36 (50) | 15 (42) | 21 (58) |  |
| 2006-2010 | 36 (50) | 16 (44) | 20 (56) | 0.812 |

PCI = percutaneous coronary intervention, ROSC = return of spontaneous circulation, 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.

eOnly for descriptive purposes.

Results are presented as n (%) and median [interquartile range (IQR); range). Statistical significance was set by p value of less than 0.05. There were no missing data except two patients with missing glomerular filtration rate modification of diet in renal disease, six patients with missing international normalized ratio and fourteen patients with missing alanine aminotransferase.