

Supplementary material

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Supplementary material.

Table S1. Pre - venoarterial extracorporeal membrane oxygenation variables.

Variables	MD (%)	ALL n=198		Survivors n=69		Nonsurvivors n=129		P value	ULR		
		OR	95% CI	P value	OR	95% CI	P value				
BIVAD POLVAD	0	7	4%	2	3%	5	4%	0.26	2.407	0.49 – 11.65	0.27
LVAD POLVAD	0	5	3%	0	0%	5	4%	0.42	1.922	0.38 – 9.515	0.42
HM/HW	0	5	3%	2	3%	3	2%	0.54	1.752	0.28 – 6.516	0.57
IABP	0	64	32%	27	39%	37	29%	0.13	0.626	0.33 – 1.158	0.14
CVVHDF	0	31	16%	6	9%	25	19%	0.049	2.524	0.98 – 6.490	0.06
Mechanical ventilation	0	149	75%	53	77%	96	74%	0.71	0.878	0.44 – 1.742	0.71
Echocardiographic parameters											
LV EF (%)	2	35	(15-55; 5-72)	30	(15-55; 5-72)	35	(16-60; 5-70)	0.36	1.006	0.99 – 1.021	0.42
LVEDD (mm)	18	58	(52-65; 29-90)	60	(54-67; 33-85)	56	(50-65;29-90)	0.13	0.984	0.95 – 1.013	0.28
Significant valve pathology	2										
MR		116	59%	43	62%	73	57%	0.31	0.728	0.39 – 1.337	0.31
MS		8	4%	2	3%	6	5%	0.58	1.585	0.31 – 8.078	0.58
AR		29	15%	9	13%	20	16%	0.70	1.182	0.506 – 2.76	0.7
AS		29	15%	7	10%	20	16%	0.33	1.573	0.629 – 3.93	0.33
TR		107	54%	38	55%	69	53%	0.67	0.878	0.484 – 1.59	0.67
Tamponade	2	2	1%	1	1%	1	1%	0.65	0.529	0.03 – 8.597	0.65
PH risk assesment	15										
Low		98	49%	37	54%	61	47%	0.015	0.73	0.397-1.343	0.31
Intermediate		61	31%	20	29%	41	32%	0.007	1.114	0.582-2.130	0.75
High		24	12%	7	10%	17	13%	0.041	1.318	0.516-3.366	0.56
RVEDD	27	40	(37-45; 20-61)	40	(35-45; 24-50)	40	(37-45;20-61)	0.65	1.016	0.97 – 1.064	0.49
RV Failure	11	61	31%	20	29%	41	32%	0.62	1.179	0.61 – 2.249	0.62
Laboratory parameters											
Creatinine (µmol/l)	3	131	(97-185;44-575)	129	(98-187;44-575)	132	(97-184;44-439)	0.58	0.997	0.99 – 1.001	0.14
GFR (mL/min/1.73 m ²)	3	44	(30-65;6-90)	48	(31-68;6-90)	43	(30-62;10-90)	0.71	0.998	0.984 – 1.01	0.74
Bilirubin (µmol/l)	5	19	(11-32;0.5-387)	16.5	(11-27;3-214)	20.4	(11-38;0.5-387)	0.33	1.005	0.996 – 1.01	0.3
AST (U/l)	4	73	(29-311;10-11989)	74	(32-313;10-11459)	73	(27-319;14-11989)	0.87	1	1.000 – 1.00	0.54
ALT (U/l)	4	40	(19-190;1-5533)	38	(20-98;8-5533)	43	(18-200;1-4767)	0.91	1	0.999 – 1.00	0.45
WBC (tys/µl)	4	12.6	(8.6-16.5;3.5-50.5)	13	(9.5-17.4;5.8-40.9)	12.4	(8.34-16.4;3.53-50.5)	0.17	0.971	0.930 – 1.01	0.19
CRP (mg/dl)	10	4.22	(1-10;0.01-41.9)	4.03	(1-11;0.09-34.4)	4.34	(1-10.4;0.01-41.9)	0.91	0.987	0.947 – 1.02	0.52
Hg (g/dl)	4	10.8	((9.3-13;6.9-17.9)	11.5	(10.4-14.8;3-17.9)	10.5	(9.25-12.8;6.9-17.1)	0.006	0.834	0.734 - 0.94	0.005
PLT (x104/ml)	4	193	(152-256;53-722)	194	(160-267;80-435)	190	(140-247;53-722)	0.37	1	0.99 – 1.004	0.86
INR	3	1.39	(1.2-1.8;0.9-5.6)	1.37	(1.1-1.7;0.9-3.6)	1.5	(1.23-1.87;0.9-5.6)	0.2	1.449	0.88 – 2.380	0.14
APTT (s)	3	41	(33-51;21-350)	37	(31-48;21-350)	42	(34-52;23-350)	0.034	1.004	0.996 – 1.01	0.33
Arterial pH	10	7.32	(7.24-7.40;6.96-7.56)	7.32	(7.24-7.40;6.99-7.50)	7.32	(7.24-7.40;6.96-7.56)	0.87	1.456	0.10 – 20.72	0.78
Lactate (mmol/l)	10	6.23	(2.53-12.75;0.7-27.25)	5.5	(2.6-11.6;0.8-19.5)	6.6	(2.38-13.03;0.70-27.25)	0.51	1.03	0.97 – 1.092	0.33

BIVAD POLVAD–Pulsatile Biventricular Assist Device; LVAD POLVAD–Pulsatile Left Ventricular Assist Device; IABP–Intra Aortic Balloon Pump; CRRT–Continuous Renal Replacement Therapy; MV–Mechanical Ventilation; LV EF–Left Ventricular Ejection Fraction; LVEDD–Left Ventricular End

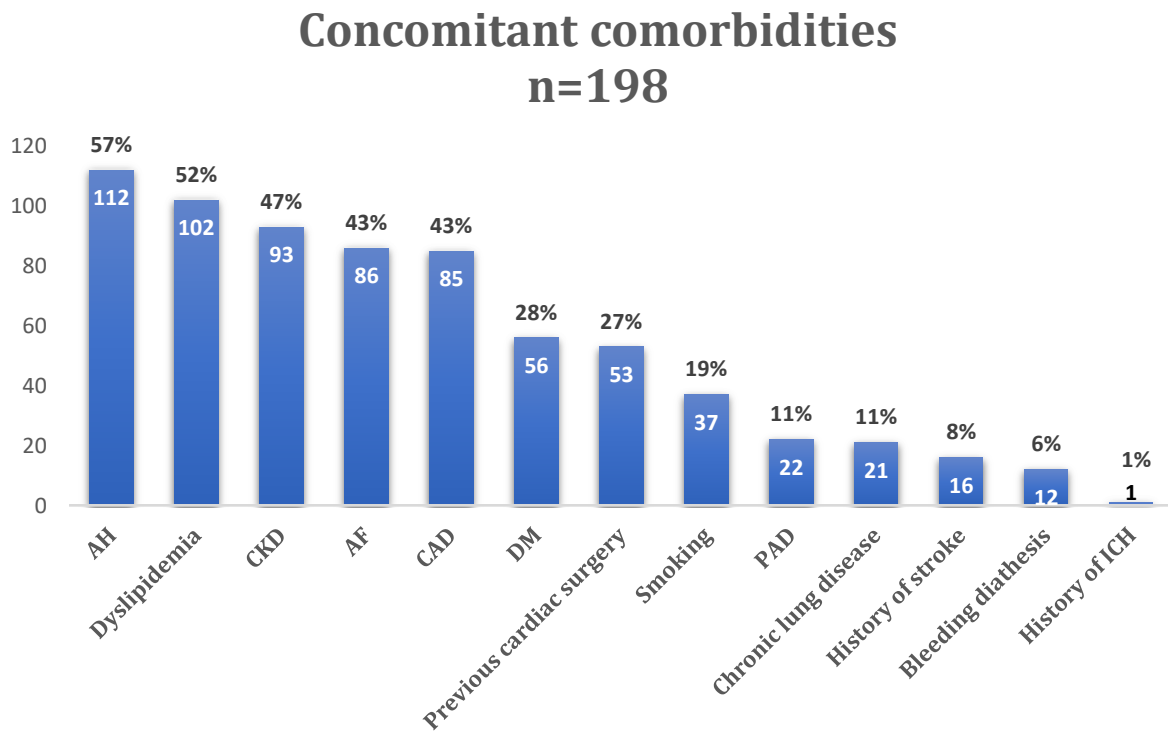
Diastolic Dimension; **MR**–Mitral Regurgitation; **MS**–Mitral Stenosis; **AR**–Aortic Regurgitation; **AS**–Aortic Stenosis; **TR**–Tricuspid Regurgitation; **PH**–Pulmonary Hypertension; **RVEDD**–Right Ventricular End Diastolic Dimension; **RV**–Right Ventricle; **ULR**–Univariable Logistic Regression; **MD** – Missing data;

Table S2. Pre-weaning of venoarterial extracorporeal membrane oxygenation variables.

Echocardiographic parameters											
Variables	MD (%)	ALL		Survivors		Nonsurvivors		P value	ULR		
		n=92		n=56		n=36			OR	95% CI	P value
LV EF	1	30	(15-40;10-60)	35	(20-40;15-60)	20	(15-35;10-60)	0.037	0.976	0.953 – 1.000	0.049
LVEDD	1	55	(46-60;28-85)	55	(48-61;35-85)	55	(44-60;28-75)	0.38	0.98	0.944 – 1.018	0.29
RVEDD	30	40	(36-42;20-56)	40	(37-42;20-53)	40	(35-40;22-56)	0.48	0.976	0.912 – 1.045	0.49
RV dysfunction	5	68	74%	38	67%	30	83%	0.24	1.532	0.749 – 3.136	0.24
Laboratory parameters											
Creatinine (µmol/l)	0	117	(85-181;35-621)	106	(78-144;44-371)	137	(97-205;35-621)	0.014	1.006	1.001 – 1.010	0.022
GFR	0	56.7	(31-90;10-90)	67.4	(43-90;16-90)	45.5	(29-72;10-90)	0.009	0.982	0.968 – 0.996	0.01
Bilirubin (µmol/l)	0	20.7	(13-52;3.7-451)	15.2	(10.5-24.6;3.7-413)	28.3	(17-81;6.8-451)	<0.001	1.008	1.000 – 1.016	0.04
AST (U/l)	0	48	(28-109;12-6523)	38.5	(25-67;15-3570)	72.5	(38-245;12-6523)	0.001	1.001	1.000 – 1.002	0.14
ALT (U/l)	0	36	(18-110;11-2499)	32.5	(16.5-91.7;11-207)	48	(21-186;13-2499)	0.19	1.006	0.999 – 1.012	0.08
WBC (/ml)	0	12.8	(10-16.7;0.4-35.5)	12.5	(10-16.8;5.3-26.4)	12.8	(10-16.7;0.42-35.5)	0.93	0.991	0.931 – 1.055	0.77
CRP (mg/dl)	0	9.09	(3.4-16.3;0.3-40.1)	8.25	(2.55-12.6;0.4-33)	10.5	(4-20;0.3-40.1)	0.14	1.037	0.993 – 1.083	0.1
Hg (g/dl)	0	9.2	(8.6-9.9;6-13.6)	9.15	(8.6-9.9;7.3-11.5)	9.2	(8.6-9.7;6-13.6)	0.79	0.95	0.693 – 1.303	0.75
PLT (x104/ml)	0	86	(58-145;24-324)	94	(66-146;28-292)	74	(53-144;24-324)	0.15	0.998	0.993 – 1.003	0.42
INR	0	1.27	(1.16-1.59;0.97-3.58)	1.24	(1.08-1.3;0.97-1.72)	1.47	(1.19-1.72;1.01-3.58)	0.008	27.769	2.204 – 349.887	0.01
Arterial pH	0	7.41	(7.35-7.45;7.02-7.56)	7.42	(7.39-7.46;7.26-7.56)	7.36	(7.25-7.45;7.02-7.56)	0.002	0.0001	0.000 – 0.014	< 0.001
Lactate	0	1.56	(1.1-2.21;0.2-18)	1.22	(0.9-2.03;0.5-9.00)	1.8	(1.2-3.2;0.2-18)	0.008	1.14	0.987 – 1.318	0.08

LV EF–Left Ventricular Ejection Fraction; LVEDD–Left Ventricular End Diastolic Dimension; RVEDD–Right Ventricular End Diastolic Dimension; RV–Right Ventricle; ULR–Univariable Logistic Regression; MD Missing data;

Figure S1. Concomitant comorbidities among venoarterial extracorporeal membrane oxygenation recipients.



AH–Arterial Hypertension; **CKD**–Chronic Kidney Disease (<50 ml/min or dialysis); **AF**–Atrial Fibrillation; **CAD**–Coronary Artery Disease; **DM**–Diabetes Mellitus; **PAD**–Peripheral Artery Disease; **ICH**–Intra Cranial Hemorrhage;