

Table 1: ECMO Patient Demographics and Diagnoses

Variable	Survivors (n=56) Median (IQR)/N(%)	Non-survivors (n=36) Median (IQR)/N(%)	p-value
Age (Days)	3 (576.5)	234.5 (2937)	0.0322
Weight (Kilograms)	4.15 (7.85)	7.3 (23.12)	0.2316
Male Gender	25 (45%)	17 (57%)	0.288
Primary Race			
White	5 (9%)	4 (18%)	0.49
Asian	27 (51%)	9 (41%)	
Black	3 (6%)	0 (0%)	
Native Hawaiian or Pacific Islander	18 (34%)	9 (41%)	
CDH	1 (2%)	3 (10%)	0.120
MAS	25 (45%)	3 (10%)	0.001
PPHN	31 (55%)	10 (33%)	0.070
Cardiac surgery	3 (5%)	2 (7%)	1.0
Sepsis	40 (71%)	17 (29.82%)	0.232
Non-operative CHD	15 (27%)	8 (27%)	1.0
Myocarditis	5 (9%)	2 (7%)	1.0
Neonatal HIE	18 (32%)	4 (13%)	0.072
Pre-existing disease	14 (25%)	10 (33%)	0.455

Table 2: Comorbidities

Variable	Survivors (n=56) Median (IQR)/N(%)	Non-survivors (n=36) Median (IQR)/N(%)	p-value
Cardiac Arrest before ECMO	12 (21%)	12 (40%)	0.081
ECPR case	6 (11%)	10 (33%)	0.018
Dialysis Requirement	10 (18%)	18 (60%)	<0.001
Multiple Organ Failure	51 (91%)	30 (100%)	0.158
PIM-2 score	18 (23.3)	6.1 (33.3)	0.0424
VIS Max	30 (32)	45 (95)	0.3722
Lactate n=61	6.6 (7.2)	10.2 (11.6)	0.0618
Arterial pH	7.1 (0.24)	7.1 (0.33)	0.2561
PaCO2 (mmHg)	61.3 (29.1)	65.7 (37.5)	0.0961
PaO2 (mmHg) n=75	47 (31.3)	43 (22.6)	0.6180
Use of INO before ECMO	43 (77%)	16 (53%)	0.031

Abbreviations:

CDH – Congenital Diaphragmatic Hernia, MAS – Meconium Aspiration Syndrome, PPHN – Persistent Pulmonary Hypertension of Newborn, ARDS – Acute Respiratory Distress Syndrome, CHD – Congenital Heart Disease, HIE – Hypoxic Ischemic Encephalopathy, PIM – Pediatric Index of Mortality, VIS – Vasoactive Inotropic Score, INO – Inhaled Nitric Oxide