

Supplemental Table 1. PaO₂ By Primary Outcome

PaO₂ Value by Mortality

	Mortality		p-value
	No (n = 81)	Yes (n= 29)	
PaO₂ Mean (SD) Median (IQR) Range	91.8 (32.6) 89.2 (62.9, 112.2) 39.5 – 207.3	114.0 (71.2) 118.5 (67.1, 169.5) 37.2 – 277.8	0.03¹
Number of Samples Mean (SD) Median (IQR)	12.9 (4.2) 12.0 (10.0, 16.0)	14.2 (4.1) 13.0 (11.0, 17.0)	0.134 ¹

¹Kruskal – Wallis p-value

PaO₂ Value by Any Complications

	Any Renal, cardiovascular or Mechanical Complications		p-value
	No (n = 16)	Yes (n= 94)	
PaO₂ Mean (SD) Median (IQR) Range	86.3 (22.4) 90.4 (65.9, 104.3) 46.2 – 119.9	99.6 (49.4) 118.5 (67.1, 169.5) 37.2 – 277.8	0.617 ¹
Number of Samples Mean (SD) Median (IQR)	11.8 (3.4) 11.5 (10.0, 13.0)	13.5 (4.3) 13.0 (10.0, 16.0)	0.168 ¹

¹Kruskal – Wallis p-value

PaO₂ Values by Stage II or III Acute Kidney Injury

	Stage II or III Acute Kidney Injury		p-value
	No (n = 49)	Yes (n= 61)	
PaO₂ Mean (SD) Median Range	89.9 (36.1) 81.5 39.5 – 202.2	112.8 (59.2) 102.4 48.1 – 277.8	0.237 ¹
Number of Samples Mean (SD) Median (IQR)	11.9 (3.5) 11.5 (10.0, 13.0)	13.5 (4.0) 13.0 (10.0, 16.0)	0.338 ¹

¹Kruskal – Wallis p-value

Supplemental Table 2. Univariable Logistic Regression

Univariate Logistic Regression

Covariate	Stage II or III Acute Kidney Injury	
	Odds Ratio (95% CI)	p-value
Age Group Neonatal Pediatric (reference)	1.95 (0.83 – 4.61) –	0.126 –
ECLS Indication Pulmonary Cardiac	1.28 (0.41 – 3.99) –	0.665 –
Body Surface Area (BSA)	0.83 (0.45 – 1.53)	0.548

Univariate Logistic Regression

Covariate	Any Renal, Cardiovascular or Mechanical complication	
	Odds Ratio (95% CI)	p-value
Age Group Neonatal Pediatric (reference)	0.00 (0.00 – 1.23) –	0.936 –
ECLS Indication Pulmonary Cardiac	0.00 (0.00 – 1.00) –	0.964 –
Body Surface Area (BSA)	0.78 (0.41 – 1.42)	0.476

Univariate Logistic Regression

Covariate	Mortality	
	Odds Ratio (95% CI)	p-value
Age Group Neonatal Pediatric (reference)	0.89 (0.38 – 2.091) –	0.790 –
ECLS Indication Pulmonary Cardiac	0.07 (0.02 – 0.26) –	<0.001 –
Body Surface Area (BSA)	1.28 (0.66 – 2.48)	0.468