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Supplemental Table 1: Diagnosis Code Categories**Cardiac Arrest**

I46.9	Cardiac arrest, cause unspecified
779.85	Cardiac arrest of newborn
P29.81	Cardiac arrest of newborn
I97.120	Postprocedural cardiac arrest following cardiac surgery
I46.8	Cardiac arrest due to other underlying condition
I97.710	Intraoperative cardiac arrest during cardiac surgery
I46.2	Cardiac arrest due to underlying cardiac condition
I97.121	Postprocedural cardiac arrest following other surgery
Congenital Heart Disease	
747.1	Coarctation of aorta (preductal) (postductal)
747	Patent ductus arteriosus
397	Diseases of tricuspid valve
746.7	Hypoplastic left heart syndrome
745.5	Ostium secundum type atrial septal defect
746.89	Other specified congenital anomaly of heart
Q23.4	Hypoplastic left heart syndrome
Q22.8	Other congenital malformations of tricuspid valve
Q25.42	Hypoplasia of aorta
Q21.1	Atrial septal defect
Q23.8	Other congenital malformations of aortic and mitral valves
747.39	Other anomalies of pulmonary artery and pulmonary circulation
745	Bulbus cordis anomalies and anomalies of cardiac septal closure, common truncus
745.4	Ventricular septal defect
424	Mitral valve disorders
Q23.1	Congenital insufficiency of aortic valve
Q25.0	Patent ductus arteriosus
Q25.21	Interruption of aortic arch
Q21.0	Ventricular septal defect
Q23.3	Congenital mitral insufficiency
747.22	Congenital atresia and stenosis of aorta
747.41	Total congenital anomalous pulmonary venous connection
745.2	Tetralogy of Fallot
745.3	Bulbus cordis anomalies and anomalies of cardiac septal closure, common ventricle
747.49	Other congenital anomalies of great veins
747.42	Partial congenital anomalous pulmonary venous connection
746.87	Congenital malposition of heart and cardiac apex
Q22.0	Pulmonary valve atresia
Q22.6	Hypoplastic right heart syndrome
746.83	Congenital infundibular pulmonic stenosis
745.1	Complete transposition of great vessels
746.85	Congenital coronary artery anomaly
746.01	Congenital atresia of pulmonary valve
746.1	Congenital tricuspid atresia and stenosis
747.3	Congenital anomalies of pulmonary artery
746.02	Congenital stenosis of pulmonary valve
Q20.1	Double outlet right ventricle
Q20.3	Discordant ventriculoarterial connection
Q25.8	Other congenital malformations of other great arteries
745.61	Ostium primum defect
Q25.1	Coarctation of aorta
Q20.0	Common arterial trunk
Q25.79	Other congenital malformations of pulmonary artery
Q20.8	Other congenital malformations of cardiac chambers and connections
Q24.8	Other specified congenital malformations of heart
Q21.3	Tetralogy of Fallot
Q25.6	Stenosis of pulmonary artery
745.11	Transposition of great vessels, double outlet right ventricle
424.3	Pulmonary valve disorders
Q26.2	Total anomalous pulmonary venous connection
Q21.2	Atrioventricular septal defect
Q23.2	Congenital mitral stenosis
Q20.4	Double inlet ventricle
Q22.5	Ebstein's anomaly
Q24.3	Pulmonary infundibular stenosis
746.3	Congenital stenosis of aortic valve
746.5	Congenital mitral stenosis
746.09	Other congenital anomalies of pulmonary valve
747.21	Congenital anomaly of aortic arch
Q25.4	Other congenital malformations of aorta

Q25.49	Other congenital malformations of aorta
Q24.5	Malformation of coronary vessels
Q24.6	Congenital heart block
Q26.8	Other congenital malformations of great veins
746.2	Ebstein's anomaly
Q20.5	Discordant atrioventricular connection
Q24.1	Levocardia
746.86	Congenital heart block
Q25.5	Atresia of pulmonary artery
Q22.3	Other congenital malformations of pulmonary valve
Q24.2	Cor triatriatum
746.6	Congenital mitral insufficiency
Q24.9	Congenital malformation of heart, unspecified
Q25.47	Right aortic arch
746.4	Congenital insufficiency of aortic valve
424.1	Aortic valve disorders
747.11	Congenital interruption of aortic arch
747.5	Congenital absence or hypoplasia of umbilical artery
745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure
Q22.4	Congenital tricuspid stenosis
Q24.0	Dextrocardia
424.2	Tricuspid valve disorders, specified as nonrheumatic
Q23.0	Congenital stenosis of aortic valve
Q25.3	Supravalvular aortic stenosis
394.2	Mitral stenosis with insufficiency
Q26.1	Persistent left superior vena cava
Q22.1	Congenital pulmonary valve stenosis
747.4	Congenital anomaly of great veins unspecified
746.9	Unspecified congenital anomaly of heart
Q25.45	Double aortic arch
396	Mitral valve stenosis and aortic valve stenosis
Q24.4	Congenital subaortic stenosis
394	Mitral stenosis
Q26.3	Partial anomalous pulmonary venous connection
Q25.71	Coarctation of pulmonary artery
746.84	Congenital obstructive anomalies of heart, not elsewhere classified
Q20.6	Isomerism of atrial appendages
Q21.4	Aortopulmonary septal defect

Other Cardiac Dysfunction

I42.8	Other cardiomyopathies
I50.9	Heart failure, unspecified
427.89	Other specified cardiac dysrhythmias
427.41	Ventricular fibrillation
428	Congestive heart failure, unspecified
426.11	First degree atrioventricular block
I31.3	Pericardial effusion (noninflammatory)
I40.9	Acute myocarditis, unspecified
I40.0	Infective myocarditis
423.3	Cardiac tamponade
428.22	Chronic systolic heart failure
425.4	Other primary cardiomyopathies
421	Acute and subacute bacterial endocarditis
422.91	Idiopathic myocarditis
427.32	Atrial flutter
427.1	Paroxysmal ventricular tachycardia
429.3	Cardiomegaly
785.51	Cardiogenic shock
I34.0	Nonrheumatic mitral (valve) insufficiency
I31.4	Cardiac tamponade
I97.130	Postprocedural heart failure following cardiac surgery
I50.23	Acute on chronic systolic (congestive) heart failure
I50.20	Unspecified systolic (congestive) heart failure
421.9	Acute endocarditis, unspecified
I31.2	Hemopericardium, not elsewhere classified
I42.2	Other hypertrophic cardiomyopathy
426	Atrioventricular block, complete
P29.89	Other cardiovascular disorders originating in the perinatal period
422.99	Other acute myocarditis
428.1	Left heart failure
427.69	Other premature beats
423	Hemopericardium

428.9	Heart failure, unspecified
427	Paroxysmal supraventricular tachycardia
I24.8	Other forms of acute ischemic heart disease
I50.21	Acute systolic (congestive) heart failure
I30.1	Infective pericarditis
I43	Cardiomyopathy in diseases classified elsewhere
I50.810	Right heart failure, unspecified
427.61	Supraventricular premature beats
424.9	Endocarditis, valve unspecified, unspecified cause
426.13	Other second-degree atrioventricular block
429	Myocarditis, unspecified
I50.1	Left ventricular failure, unspecified
428.21	Acute systolic heart failure
427.9	Cardiac dysrhythmia, unspecified
423.9	Unspecified disease of pericardium
427.81	Sinoatrial node dysfunction
423.8	Other specified diseases of pericardium
P29.0	Neonatal cardiac failure
I40.8	Other acute myocarditis
I31.8	Other specified diseases of pericardium
I42.0	Dilated cardiomyopathy
415	Acute cor pulmonale
I36.1	Nonrheumatic tricuspid (valve) insufficiency
420.9	Acute pericarditis, unspecified
422.9	Acute myocarditis, unspecified
I51.4	Myocarditis, unspecified
I50.814	Right heart failure due to left heart failure
410.91	Acute myocardial infarction, unspecified site, initial episode of care
429.9	Heart disease, unspecified
412	Old myocardial infarction
I51.7	Cardiomegaly
I38	Endocarditis, valve unspecified
I51.9	Heart disease, unspecified
425.8	Cardiomyopathy in other diseases classified elsewhere
428.3	Unspecified diastolic heart failure
I35.1	Nonrheumatic aortic (valve) insufficiency
414.01	Coronary atherosclerosis of native coronary artery
I42.9	Cardiomyopathy, unspecified
429.89	Other ill-defined heart disease
I40.1	Isolated myocarditis
I51.89	Other ill-defined heart diseases
I34.2	Nonrheumatic mitral (valve) stenosis
I35.0	Nonrheumatic aortic (valve) stenosis
I50.89	Other heart failure
I50.32	Chronic diastolic (congestive) heart failure
425.3	Endocardial fibroelastosis
411.81	Acute coronary occlusion without myocardial infarction
I33.0	Acute and subacute infective endocarditis
I50.33	Acute on chronic diastolic (congestive) heart failure
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction
422	Acute myocarditis in diseases classified elsewhere
429.71	Acquired cardiac septal defect
998.01	Postoperative shock, cardiogenic
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
I50.82	Biventricular heart failure
I97.110	Postprocedural cardiac insufficiency following cardiac surgery
426.9	Conduction disorder, unspecified
I27.22	Pulmonary hypertension due to left heart disease
I21.A9	Other myocardial infarction type
I50.813	Acute on chronic right heart failure
414.8	Other specified forms of chronic ischemic heart disease
426.1	Atrioventricular block, unspecified
425.7	Nutritional and metabolic cardiomyopathy
I42.4	Endocardial fibroelastosis
427.31	Atrial fibrillation
427.2	Paroxysmal tachycardia, unspecified
423.2	Constrictive pericarditis
426.4	Right bundle branch block
I34.1	Nonrheumatic mitral (valve) prolapse
I37.8	Other nonrheumatic pulmonary valve disorders
426.5	Bundle branch block, unspecified

I24.0	Acute coronary thrombosis not resulting in myocardial infarction
428.4	Unspecified combined systolic and diastolic heart failure
425.18	Other hypertrophic cardiomyopathy
I42.1	Obstructive hypertrophic cardiomyopathy
I34.8	Other nonrheumatic mitral valve disorders
429.4	Functional disturbances following cardiac surgery
426.7	Anomalous atrioventricular excitation
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure
426.82	Long QT syndrome
CDH	
Q79.0	Congenital diaphragmatic hernia
PPHN	
P29.30	Pulmonary hypertension of newborn
I27.0	Primary pulmonary hypertension
416	Primary pulmonary hypertension
Meconium Aspiration	
770.12	Meconium aspiration with respiratory symptoms
P24.01	Meconium aspiration with respiratory symptoms
770.11	Meconium aspiration without respiratory symptoms
Acute Respiratory Failure	
770.18	Other fetal and newborn aspiration with respiratory symptoms
J96.91	Respiratory failure, unspecified with hypoxia
J96.00	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia
770.84	Respiratory failure of newborn
799.1	Respiratory arrest
P28.5	Respiratory failure of newborn
518.84	Acute and chronic respiratory failure
770.89	Other respiratory problems after birth
518.51	Acute respiratory failure following trauma and surgery
J95.1	Acute pulmonary insufficiency following thoracic surgery
J96.21	Acute and chronic respiratory failure with hypoxia
J96.01	Acute respiratory failure with hypoxia
770.87	Respiratory arrest of newborn
770.88	Hypoxemia of newborn
J96.20	Acute and chronic respiratory failure, unspecified whether with hypoxia or hypercapnia
J96.02	Acute respiratory failure with hypercapnia
J95.2	Acute pulmonary insufficiency following nonthoracic surgery
J96.90	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia
J80	Acute respiratory distress syndrome
P28.81	Respiratory arrest of newborn
J95.821	Acute postprocedural respiratory failure
J96.22	Acute and chronic respiratory failure with hypercapnia
Pneumonia/Pneumonitis	
J18.9	Pneumonia, unspecified organism
J95.851	Ventilator associated pneumonia
J21.0	Acute bronchiolitis due to respiratory syncytial virus
482.41	Methicillin susceptible pneumonia due to Staphylococcus aureus
480.8	Pneumonia due to other virus not elsewhere classified
J20.9	Acute bronchitis, unspecified
J12.3	Human metapneumovirus pneumonia
J10.82	Influenza due to other identified influenza virus with myocarditis
488.1	Influenza due to identified 2009 H1N1 influenza virus
482.42	Methicillin resistant pneumonia due to Staphylococcus aureus
J69.0	Pneumonitis due to inhalation of food and vomit
487.1	Influenza with other respiratory manifestations
486	Pneumonia, organism unspecified
466.11	Acute bronchiolitis due to respiratory syncytial virus (RSV)
480.1	Pneumonia due to respiratory syncytial virus
507	Pneumonitis due to inhalation of food or vomitus
J12.0	Adenoviral pneumonia
J11.1	Influenza due to unidentified influenza virus with other respiratory manifestations
P23.2	Congenital pneumonia due to Staphylococcus
770	Congenital pneumonia
33	Whooping cough due to Bordetella pertussis (p. pertussis)
466.19	Acute bronchiolitis due to other infectious organisms
480	Pneumonia due to adenovirus
J12.2	Parainfluenza virus pneumonia
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia
112.4	Candidiasis of lung
480.9	Viral pneumonia, unspecified
482.84	Legionnaires' disease

507.1	Pneumonitis due to inhalation of oils and essences
J15.1	Pneumonia due to Pseudomonas
J12.1	Respiratory syncytial virus pneumonia
J13	Pneumonia due to Streptococcus pneumoniae
J21.1	Acute bronchiolitis due to human metapneumovirus
J21.8	Acute bronchiolitis due to other specified organisms
J12.89	Other viral pneumonia
33.9	Whooping cough, unspecified organism
487	Influenza with pneumonia
487.8	Influenza with other manifestations
J15.0	Pneumonia due to Klebsiella pneumoniae
J15.211	Pneumonia due to methicillin susceptible Staphylococcus aureus
482.1	Pneumonia due to Pseudomonas
J15.7	Pneumonia due to Mycoplasma pneumoniae
J10.08	Influenza due to other identified influenza virus with other specified pneumonia
A31.0	Pulmonary mycobacterial infection
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia
480.2	Pneumonia due to parainfluenza virus
J16.8	Pneumonia due to other specified infectious organisms
31	Pulmonary diseases due to other mycobacteria
484.6	Pneumonia in aspergillosis
482.4	Pneumonia due to Staphylococcus, unspecified
J15.8	Pneumonia due to other specified bacteria
482	Pneumonia due to Klebsiella pneumoniae
483.8	Pneumonia due to other specified organism
P23.6	Congenital pneumonia due to other bacterial agents
484.1	Pneumonia in cytomegalic inclusion disease
482.32	Pneumonia due to Streptococcus, group b
484.7	Pneumonia in other systemic mycoses
482.9	Bacterial pneumonia, unspecified
483	Pneumonia due to Mycoplasma pneumoniae
482.83	Pneumonia due to other gram-negative bacteria
Sepsis	
A41.9	Sepsis, unspecified organism
P36.9	Bacterial sepsis of newborn, unspecified
785.52	Septic shock
995.92	Severe sepsis
38.49	Other septicemia due to Gram-negative organism
38.19	Other staphylococcal septicemia
771.83	Bacteremia of newborn
995.9	Systemic inflammatory response syndrome, unspecified
A41.89	Other specified sepsis
995.91	Sepsis, unspecified
P36.0	Sepsis of newborn due to Streptococcus, group b
38.9	Unspecified septicemia
38	Streptococcal septicemia
38.42	Septicemia due to Escherichia coli (E. coli)
38.11	Methicillin susceptible Staphylococcus aureus septicemia
P36.8	Other bacterial sepsis of newborn
A41.81	Sepsis due to Enterococcus
A41.52	Sepsis due to Pseudomonas
A40.0	Sepsis due to Streptococcus, group A
A41.01	Sepsis due to methicillin susceptible Staphylococcus aureus
A40.1	Sepsis due to Streptococcus, group B
38.44	Septicemia due to Serratia
P36.4	Sepsis of newborn due to Escherichia coli
38.43	Septicemia due to Pseudomonas
A41.53	Sepsis due to Serratia
A41.50	Gram-negative sepsis, unspecified
P36.39	Sepsis of newborn due to other staphylococci
A41.51	Sepsis due to Escherichia coli (e. coli)
Oncologic/BMT	
202.8	Other malignant lymphomas, unspecified site, extranodal and solid organ sites
T86.5	Complications of stem cell transplant
C41.4	Malignant neoplasm of pelvic bones, sacrum and coccyx
C78.00	Secondary malignant neoplasm of unspecified lung
204.01	Acute lymphoid leukemia in remission
201.98	Hodgkin's disease, unspecified type, of lymph nodes of multiple sites
C91.00	Acute lymphoblastic leukemia not having achieved remission
C83.78	Burkitt lymphoma, lymph nodes of multiple sites
V42.81	Bone marrow replaced by transplant
191.6	Malignant neoplasm of cerebellum NOS

C91.02	Acute lymphoblastic leukemia, in relapse
Z94.84	Stem cells transplant status
204	Acute lymphoid leukemia, without mention of having achieved remission
198.82	Secondary malignant neoplasm of genital organs
C92.00	Acute myeloblastic leukemia, not having achieved remission
C92.30	Myeloid sarcoma, not having achieved remission
C92.Z1	Other myeloid leukemia, in remission
C79.89	Secondary malignant neoplasm of other specified sites
C77.9	Secondary and unspecified malignant neoplasm of lymph node, unspecified
Z94.81	Bone marrow transplant status
Solid Organ Transplant	
996.83	Complications of transplanted heart
T86.298	Other complications of heart transplant
T86.818	Other complications of lung transplant
T86.21	Heart transplant rejection
V45.87	Transplanted organ removal status
Z94.1	Heart transplant status
T86.810	Lung transplant rejection
996.84	Complications of transplanted lung
V42.7	Liver replaced by transplant
996.89	Complications of other transplanted organ
V42.1	Heart replaced by transplant
T86.22	Heart transplant failure
CKD/CAKUT	
585.6	End stage renal disease
593.9	Unspecified disorder of kidney and ureter
753.29	Other congenital obstructive defect of renal pelvis and ureter
N18.2	Chronic kidney disease, stage 2 (mild)
N99.0	Postprocedural (acute) (chronic) kidney failure
593.89	Other specified disorder of kidney and ureter
753.3	Other specified congenital anomaly of kidney
N18.9	Chronic kidney disease, unspecified
753.8	Other specified congenital anomaly of bladder and urethra
E72.04	Cystinosis
753.15	Congenital renal dysplasia
753.22	Congenital obstruction of ureterovesical junction
753	Congenital renal agenesis and dysgenesis
N18.6	End stage renal disease
753.9	Unspecified congenital anomaly of urinary system
403.91	Unspecified hypertensive kidney disease with chronic kidney disease stage V or end stage renal disease

Supplemental Table 2a: Cause-specific cox proportional hazards models for time to composite outcome of any stage AKI or RRT using ECMO start creatinine closest in absolute value without priority for pre-ECMO creatinine value

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)		
	HR (95% CI)		p	HR (95% CI)		p	HR (95% CI)	p	HR (95% CI)	p	
Hemolysis Marker	<50	0.45 (0.06-3.35)	0.43	<2500	1.08 (0.33-3.49)	0.90	0.96 (0.92-1.00)	0.03	0.94 (0.87-1.03)	0.17	
	>50	3.07 (1.54-6.10)	<0.01	>2500	2.41 (1.28-4.51)	0.01					
Age^a (ref: <1 month)			<0.01			<0.01		<0.01		<0.01	
1 month – 1 year		1.71 (1.02-2.85)			1.65 (0.99-2.75)			1.76 (1.05-2.94)		1.67 (1.00-2.80)	
>1 year – 5 years		1.82 (1.03-3.23)			1.80 (1.02-3.17)			2.07 (1.16-3.70)		1.80 (1.01-3.21)	
>5 years – 12 years		2.97 (1.50-5.91)			2.83 (1.42-5.63)			3.55 (1.77-7.14)		2.80 (1.39-5.62)	
>12 years – 18 years		3.90 (1.97-7.70)			3.81 (1.96-7.42)			4.38 (2.18-8.80)		3.60 (1.82-7.10)	
>18 years		4.45 (1.82-10.9)			4.70 (1.92-11.5)			4.78 (1.94-11.8)		4.05 (1.62-10.1)	
Male Sex (versus Female)		1.07 (0.81-1.40)	0.63		1.06 (0.81-1.39)	0.67		1.05 (0.80-1.39)	0.72	1.08 (0.82-1.42)	0.56
Hospital Unit/ECMO Mode (ref: CICU)			<0.01			<0.01		<0.01		<0.01	
NICU/VV		0.32 (0.15-0.66)			0.32 (0.15-0.67)			0.31 (0.14-0.67)		0.34 (0.16-0.70)	
NICU/VA		0.45 (0.30-0.69)			0.45 (0.29-0.69)			0.47 (0.30-0.72)		0.46 (0.30-0.70)	
PICU/VV		1.43 (0.80-2.57)			1.44 (0.80-2.58)			1.54 (0.85-2.80)		1.51 (0.83-2.73)	
PICU/VA		2.42 (1.33-4.38)			2.34 (1.30-4.23)			2.40 (1.32-4.36)		2.42 (1.34-4.39)	
Abnormal Cr ECMO start		0.87 (0.60, 1.27)	0.48		0.86 (0.59-1.25)	0.43		0.83 (0.57-1.21)	0.33	0.87 (0.60-1.27)	0.47
Average pH		0.15 (0.01-1.66)	0.12		0.17 (0.02-1.98)	0.10		0.16 (0.01-2.13)	0.16	0.17 (0.01-1.92)	0.15
Average Lactate		1.12 (1.07-1.17)	<0.01		1.12 (1.07-1.17)	<0.01		1.12 (1.07-1.17)	<0.01	1.12 (1.07-1.17)	<0.01
Median MAP^b		0.97 (0.96-0.99)	<0.01		0.97 (0.96-0.99)	<0.01		0.97 (0.96-0.99)	<0.01	0.97 (0.96-0.99)	<0.01
Nephrotoxic Medication Count^c		1.02 (0.85-1.24)	0.81		1.03 (0.85-1.24)	0.78		1.01 (0.84-1.23)	0.88	1.02 (0.84-1.23)	0.85

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 2b: Cause-specific cox proportional hazards models for time to composite outcome of stage ≥ 2 AKI or RRT using ECMO start creatinine closest in absolute value without priority for pre-ECMO creatinine value

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)		
	HR (95% CI)		p	HR (95% CI)		p	HR (95% CI)	p	HR (95% CI)	p	
Hemolysis Marker	<50	0.83 (0.11-6.31)	0.85	<2500	0.27 (0.04-2.13)	0.21	0.97 (0.92-1.02)	0.22	0.90 (0.80-1.00)	0.05	
	>50	6.57 (3.27-13.2)	<0.01	>2500	2.84 (1.45-5.57)	<0.01					
Age^a (ref: <1 month)			0.28			0.07		0.09		0.40	
1 month – 1 year		1.19 (0.57-2.48)			1.13 (0.54-2.35)			1.16 (0.55-2.47)		1.02 (0.49-2.13)	
>1 year – 5 years		1.62 (0.76-3.45)			1.70 (0.81-3.55)			1.97 (0.90-4.31)		1.45 (0.68-3.12)	
>5 years – 12 years		1.94 (0.78-4.83)			1.90 (0.76-4.74)			2.10 (0.81-5.44)		1.59 (0.64-3.93)	
>12 years – 18 years		2.61 (1.11-6.13)			3.26 (1.41-7.50)			3.47 (1.42-8.50)		2.37 (1.00-5.63)	
>18 years		2.61 (0.88-7.74)			2.96 (1.0-8.78)			3.04 (1.01-9.13)		2.06 (0.67-6.30)	
Male Sex (versus Female)		0.93 (0.63-1.37)	0.71		0.92 (0.62-1.36)	0.67		0.82 (0.55-1.22)	0.33	0.91 (0.62-1.34)	0.63
Hospital Unit/ECMO Mode (ref: CICU)			<0.01			<0.01		<0.01		<0.01	
NICU/VV		0.09 (0.01-0.65)			0.09 (0.01-0.68)			0.10 (0.01-0.75)		0.09 (0.01-0.68)	
NICU/VA		0.28 (0.14-0.54)			0.28 (0.15-0.54)			0.29 (0.14-0.56)		0.27 (0.14-0.53)	
PICU/VV		1.56 (0.79-3.11)			1.53 (0.76-3.09)			1.62 (0.79-3.36)		1.68 (0.82-3.42)	
PICU/VA		1.53 (0.68-3.40)			1.32 (0.60-2.92)			1.48 (0.66-3.33)		1.29 (0.58-2.89)	
Abnormal Cr ECMO start		1.30 (0.83-2.05)	0.25		1.18 (0.75-1.86)	0.48		1.16 (0.72-1.87)	0.53	1.28 (0.81-2.02)	0.29
Average pH		0.01 (<0.01-0.18)	<0.01		0.01 (<0.01-0.26)	<0.01		0.02 (<0.01-0.41)	0.01	0.01 (<0.01-0.23)	<0.01
Average Lactate		1.17 (1.11-1.23)	<0.01		1.16 (1.10-1.22)	<0.01		1.16 (1.10-1.23)	<0.01	1.16 (1.10-1.22)	<0.01
Median MAP^b		0.99 (0.97-1.01)	0.26		0.99 (0.97-1.01)	0.28		0.98 (0.96-1.01)	0.20	0.99 (0.97-1.01)	0.46
Nephrotoxic Medication Count^c		0.82 (0.62-1.08)	0.16		0.83 (0.63-1.10)	0.19		0.81 (0.61-1.08)	0.15	0.81 (0.61-1.08)	0.15

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 3a: Cause-specific cox proportional hazards models for time to composite outcome of any stage AKI or RRT excluding patients without a serum creatinine value obtained in the 72 hours pre-ECMO

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)	p		HR (95% CI)	p		HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50 1.13 (0.26-4.87)	0.87		<2500 0.82 (0.20-3.41)	0.78		0.97 (0.94-1.01)	0.16	0.97 (0.90-1.05)	0.50
	>50 2.62 (1.27-5.41)	0.01		>2500 2.96 (1.66-5.31)	<0.01					
Age^a (ref: <1 month)		0.05			0.02			0.06		0.04
1 month – 1 year	1.59 (0.96-2.63)			1.55 (0.94-2.56)			1.61 (0.97-2.68)		1.59 (0.96-2.64)	
>1 year – 5 years	1.24 (0.68-2.26)			1.22 (0.67-2.20)			1.38 (0.75-2.54)		1.28 (0.70-2.35)	
>5 years – 12 years	1.77 (0.89-3.51)			1.69 (0.85-3.34)			2.07 (1.03-4.18)		1.77 (0.88-3.56)	
>12 years – 18 years	2.71 (1.40-5.26)			2.91 (1.52-5.56)			2.98 (1.51-5.88)		2.77 (1.41-5.42)	
>18 years	2.53 (0.97-6.54)			2.69 (1.04-6.96)			2.62 (1.01-6.79)		2.53 (0.95-6.72)	
Male Sex (versus Female)	1.04 (0.78-1.38)	0.79		1.04 (0.79-1.38)	0.76		1.04 (0.87-2.94)	0.80	1.06 (0.80-1.41)	0.67
Hospital Unit/ECMO Mode (ref: CICU)		<0.01			<0.01			<0.01		<0.01
NICU/VV	0.29 (0.14-0.60)			0.29 (0.14-0.61)			0.28 (0.13-0.61)		0.30 (0.14-0.63)	
NICU/VA	0.42 (0.27-0.65)			0.42 (0.27-0.65)			0.43 (0.27-0.67)		0.42 (0.27-0.65)	
PICU/VV	1.13 (0.63-2.01)			1.14 (0.64-2.04)			1.21 (0.67-2.19)		1.15 (0.64-2.06)	
PICU/VA	1.61 (0.88-2.96)			1.58 (0.86-2.90)			1.60 (1.32-4.36)		1.55 (0.85-2.85)	
Abnormal Cr ECMO start	0.81 (0.57, 1.16)	0.26		0.78 (0.55-1.12)	0.18		0.79 (0.55-1.13)	0.20	0.82 (0.57-1.17)	0.27
Average pH	0.24 (0.03-2.27)	0.21		0.26 (0.03-2.50)	0.24		0.23 (0.02-2.48)	0.22	0.25 (0.03-2.37)	0.23
Average Lactate	1.11 (1.07-1.16)	<0.01		1.10 (1.06-1.15)	<0.01		1.11 (1.06-1.16)	<0.01	1.11 (1.06-1.15)	<0.01
Median MAP^b	0.99 (0.97-1.00)	0.16		0.99 (0.97-1.00)	0.16		0.99 (0.97-1.01)	0.18	0.99 (0.97-1.00)	0.13
Nephrotoxic Medication Count^c	0.96 (0.79-1.17)	0.71		0.97 (0.80-1.18)	0.80		0.96 (0.78-1.16)	0.65	0.96 (0.79-1.17)	0.71

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 3b: Cause-specific cox proportional hazards models for time to composite outcome of any ≥ stage 2 AKI or RRT excluding patients without a serum creatinine value obtained in the 72 hours pre-ECMO

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)	p		HR (95% CI)	p		HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50 0.70 (0.09-5.40)	0.73		<2500 0.28 (0.04-2.21)	0.23		0.97 (0.92-1.03)	0.34	0.89 (0.80-1.00)	0.04
	>50 5.39 (2.47-11.7)	<0.01		>2500 2.54 (1.26-5.12)	0.01					
Age^a (ref: <1 month)		0.21			0.06			0.08		0.32
1 month – 1 year	1.26 (0.57-2.77)			1.16 (0.53-2.55)			1.23 (0.55-2.78)		1.07 (0.48-2.35)	
>1 year – 5 years	1.63 (0.73-3.63)			1.66 (0.76-3.64)			1.98 (0.85-4.60)		1.45 (0.64-3.29)	
>5 years – 12 years	2.23 (0.88-5.62)			2.15 (0.85-5.45)			2.46 (0.93-6.53)		1.81 (0.71-4.58)	
>12 years – 18 years	2.96 (1.23-7.11)			3.52 (1.50-8.23)			3.89 (1.56-9.71)		2.63 (1.09-6.32)	
>18 years	2.65 (0.80-8.84)			2.86 (0.86-9.44)			2.99 (0.89-10.0)		1.89 (0.54-6.55)	
Male Sex (versus Female)	0.85 (0.56-1.29)	0.44		0.84 (0.56-1.28)	0.43		0.76 (0.49-1.16)	0.20	0.85 (0.56-1.29)	0.45
Hospital Unit/ECMO Mode (ref: CICU)		<0.01			<0.01			<0.01		<0.01
NICU/VV	<0.01 (0.00-0.01)			<0.01 (0.00-0.01)			<0.01 (0.00-0.01)		<0.01 (0.00-0.01)	
NICU/VA	0.26 (0.13-0.55)			0.26 (0.13-0.53)			0.27 (0.13-0.57)		0.26 (0.13-0.54)	
PICU/VV	1.43 (0.70-2.91)			1.44 (0.70-2.95)			1.49 (0.70-3.14)		1.58 (0.76-3.28)	
PICU/VA	1.41 (0.61-3.24)			1.26 (0.55-2.88)			1.44 (0.62-3.33)		1.29 (0.56-2.98)	
Abnormal Cr ECMO start	1.32 (0.83-2.11)	0.24		1.19 (0.74-1.90)	0.47		1.19 (0.73-1.93)	0.49	1.30 (0.82-2.08)	0.27
Average pH	0.01 (<0.01-0.17)	<0.01		0.01 (<0.01-0.21)	<0.01		0.01 (<0.01-0.37)	0.01	0.01 (<0.01-0.20)	<0.01
Average Lactate	1.16 (1.10-1.23)	<0.01		1.16 (1.09-1.22)	<0.01		1.16 (1.10-1.23)	<0.01	1.16 (1.10-1.22)	<0.01
Median MAP^b	0.98 (0.96-1.01)	0.20		0.98 (0.96-1.01)	0.20		0.98 (0.96-1.01)	0.13	0.99 (0.97-1.01)	0.35
Nephrotoxic Medication Count^c	0.76 (0.56-1.02)	0.07		0.77 (0.57-1.03)	0.08		0.75 (0.55-1.01)	0.06	0.75 (0.56-1.01)	0.06

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 4a: Cause-specific cox proportional hazards models for time to composite outcome of all stage AKI or RRT using all eligible ECMO runs, with a single patient contributing multiple runs

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)	p		HR (95% CI)	p		HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50 1.09 (0.20-5.80) 0.92			<2500 0.78 (0.17-3.56) 0.75			0.96 (0.93-1.00) 0.07		0.97 (0.89-1.06) 0.49	
	>50 2.68 (1.50-4.78) <0.01			>2500 2.86 (1.82-4.51) <0.01						
Age^a (ref: <1 month)		0.05			0.02			0.03		0.08
1 month – 1 year	1.67 (1.04-2.68)			1.64 (1.03-2.63)			1.71 (1.06-2.74)		1.66 (1.03-2.69)	
>1 year – 5 years	1.45 (0.89-2.38)			1.43 (0.88-2.32)			1.60 (0.97-2.65)		1.47 (0.89-2.45)	
>5 years – 12 years	1.80 (0.92-3.54)			1.76 (0.91-3.40)			2.28 (1.15-4.52)		1.87 (0.94-3.74)	
>12 years – 18 years	2.91 (1.46-5.80)			3.10 (1.59-6.03)			3.27 (1.55-6.90)		2.93 (1.40-6.11)	
>18 years	2.38 (1.04-5.45)			2.52 (1.10-5.76)			2.53 (1.07-5.96)		2.36 (0.99-5.60)	
Male Sex (versus Female)	1.13 (0.87-1.46) 0.37			1.13 (0.87-1.47) 0.36			1.11 (0.85-1.46) 0.43		1.15 (0.88-1.50) 0.30	
Hospital Unit/ECMO Mode (ref: CICU)		<0.01			<0.01			<0.01		<0.01
NICU/VV	0.28 (0.13-0.60)			0.29 (0.13-0.62)			0.27 (0.12-0.61)		0.29 (0.14-0.63)	
NICU/VA	0.40 (0.26-0.62)			0.40 (0.26-0.62)			0.41 (0.26-0.64)		0.40 (0.26-0.62)	
PICU/VV	1.10 (0.63-1.91)			1.11 (0.63-1.95)			1.17 (0.65-2.12)		1.11 (0.62-1.99)	
PICU/VA	1.70 (0.87-3.31)			1.66 (0.85-3.22)			1.64 (0.83-3.23)		1.63 (0.83-3.21)	
Abnormal Cr ECMO start	0.77 (0.55-1.09) 0.15			0.75 (0.53-1.06) 0.10			0.76 (0.53-1.07) 0.12		0.79 (0.55-1.11) 0.18	
Average pH	0.33 (0.03-3.56) 0.36			0.36 (0.04-3.67) 0.39			0.34 (0.03-4.22) 0.40		0.36 (0.03-3.82) 0.39	
Average Lactate	1.12 (1.07-1.17) <0.01			1.11 (1.07-1.16) <0.01			1.12 (1.07-1.17) <0.01		1.11 (1.07-1.17) <0.01	
Median MAP^b	0.99 (0.97-1.01) 0.19			0.99 (0.97-1.01) 0.18			0.99 (0.97-1.01) 0.20		0.99 (0.97-1.00) 0.16	
Nephrotoxic Medication Count^c	1.04 (0.87-1.24) 0.65			1.05 (0.89-1.25) 0.56			1.04 (0.87-1.24) 0.69		1.05 (0.88-1.25) 0.61	

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 4b: Cause-specific cox proportional hazards models for time to composite outcome of stage ≥2 AKI or RRT using all eligible ECMO runs, with a single patient contributing multiple runs

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)	p		HR (95% CI)	p		HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50 0.84 (0.12-5.92) 0.86			<2500 0.24 (0.02-2.47) 0.23			0.95 (0.90-1.01) 0.09		0.91 (0.81-1.03) 0.14	
	>50 6.71 (3.51-12.8) <0.01			>2500 3.21 (1.64-6.29) <0.01						
Age^a (ref: <1 month)		0.28			0.05			0.07		0.39
1 month – 1 year	1.41 (0.71-2.81)			1.36 (0.69-2.70)			1.41 (0.70-2.83)		1.23 (0.61-2.49)	
>1 year – 5 years	1.67 (0.83-3.36)			1.79 (0.86-3.71)			2.18 (1.06-4.48)		1.59 (0.77-3.27)	
>5 years – 12 years	1.69 (0.68-4.17)			1.82 (0.73-4.54)			2.31 (0.87-6.17)		1.63 (0.63-4.22)	
>12 years – 18 years	2.66 (1.14-6.22)			3.48 (1.55-7.79)			3.83 (1.54-9.56)		2.61 (1.08-6.32)	
>18 years	2.59 (1.00-6.73)			3.03 (1.14-8.06)			3.08 (1.00-9.47)		2.17 (0.72-6.55)	
Male Sex (versus Female)	0.88 (0.61-1.28) 0.50			0.86 (0.59-1.26) 0.44			0.76 (0.52-1.12) 0.17		0.87 (0.59-1.27) 0.46	
Hospital Unit/ECMO Mode (ref: CICU)		<0.01			<0.01			<0.01		<0.01
NICU/VV	0.09 (0.01-0.69)			0.09 (0.01-0.73)			0.10 (0.01-0.82)		0.09 (0.01-0.72)	
NICU/VA	0.29 (0.15-0.54)			0.29 (0.16-0.55)			0.30 (0.16-0.57)		0.28 (0.15-0.53)	
PICU/VV	1.62 (0.82-3.19)			1.55 (0.78-3.09)			1.56 (0.73-3.35)		1.65 (0.80-3.38)	
PICU/VA	1.55 (0.62-3.83)			1.31 (0.52-3.31)			1.41 (0.54-3.65)		1.28 (0.50-3.30)	
Abnormal Cr ECMO start	1.23 (0.80-1.87) 0.34			1.09 (0.71-1.68) 0.68			1.09 (0.71-1.69) 0.69		1.19 (0.77-1.83) 0.44	
Average pH	0.01 (<0.01-0.20) <0.01			0.01 (<0.01-0.27) 0.01			0.01 (<0.01-0.43) 0.02		0.01 (<0.01-0.27) 0.01	
Average Lactate	1.17 (1.11-1.23) <0.01			1.16 (1.10-1.22) <0.01			1.16 (1.10-1.23) <0.01		1.16 (1.10-1.22) <0.01	
Median MAP^b	0.99 (0.96-1.01) 0.31			0.99 (0.96-1.01) 0.30			0.99 (0.96-1.01) 0.26		0.99 (0.96-1.02) 0.44	
Nephrotoxic Medication Count^c	0.80 (0.62-1.02) 0.07			0.81 (0.63-1.04) 0.09			0.78 (0.59-1.02) 0.07		0.79 (0.61-1.02) 0.07	

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 5a: Cause-specific cox proportional hazards models for time to composite outcome of all stage AKI or RRT after excluding patients with diagnosis code(s) consistent with CKD and known baseline eGFR <90 mL/min/1.73 m²

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)		p	HR (95% CI)		p	HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50	1.19 (0.28-5.12)	0.81	<2500	0.80 (0.19-3.34)	0.76	0.96 (0.93-1.00)	0.06	0.96 (0.89-1.04)	0.35
	>50	2.79 (1.35-5.75)	0.01	>2500	3.09 (1.73-5.52)	<0.01				
Age^a (ref: <1 month)			0.05			0.02		0.02		0.06
1 month – 1 year		1.61 (1.00-2.61)			1.59 (0.98-2.57)			1.65 (1.02-2.68)		1.61 (0.99-2.61)
>1 year – 5 years		1.39 (0.81-2.40)			1.38 (0.80-2.37)			1.55 (0.90-2.69)		1.41 (0.81-2.44)
>5 years – 12 years		2.00 (1.03-3.89)			1.89 (0.97-3.68)			2.36 (1.20-4.66)		1.93 (0.98-3.81)
>12 years – 18 years		2.76 (1.43-5.31)			3.04 (1.60-5.76)			3.13 (1.60-6.12)		2.77 (1.43-5.39)
>18 years		2.45 (1.02-5.91)			2.63 (1.09-6.32)			2.62 (1.09-6.34)		2.39 (0.97-5.89)
Male Sex (versus Female)		1.14 (0.87-1.48)	0.35		1.14 (0.87-1.49)	0.34		1.13 (0.86-1.48)	0.39	1.16 (0.88-1.51)
Hospital Unit/ECMO Mode (ref: CICU)			<0.01			<0.01		<0.01		<0.01
NICU/VV		0.29 (0.14-0.59)			0.29 (0.14-0.61)			0.28 (0.13-0.60)		0.30 (0.14-0.62)
NICU/VA		0.40 (0.26-0.60)			0.40 (0.26-0.60)			0.41 (0.27-0.63)		0.40 (0.26-0.61)
PICU/VV		1.20 (0.67-2.14)			1.18 (0.66-2.10)			1.27 (0.71-2.30)		1.21 (0.67-2.17)
PICU/VA		1.92 (1.07-3.42)			1.86 (1.04-3.31)			1.86 (1.03-3.33)		1.83 (1.03-3.27)
Abnormal Cr ECMO start		0.78 (0.55-1.11)	0.16		0.74 (0.52-1.06)	0.10		0.75 (0.52-1.07)	0.11	0.78 (0.55-1.11)
Average pH		0.35 (0.04-3.18)	0.35		0.37 (0.04-3.45)	0.38		0.34 (0.03-3.69)	0.38	0.37 (0.04-3.35)
Average Lactate		1.11 (1.07-1.16)	<0.01		1.11 (1.06-1.15)	<0.01		1.11 (1.06-1.16)	<0.01	1.11 (1.07-1.16)
Median MAP^b		0.99 (0.97-1.00)	0.11		0.99 (0.97-1.00)	0.11		0.99 (0.97-1.00)	0.13	0.99 (0.97-1.00)
Nephrotoxic Medication Count^c		1.01 (0.84-1.22)	0.88		1.02 (0.85-1.23)	0.80		1.01 (0.83-1.22)	0.94	1.01 (0.84-1.22)

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins

Supplemental Table 5b: Cause-specific cox proportional hazards models for time to composite outcome of stage ≥2 AKI or RRT after excluding patients with diagnosis code(s) consistent with CKD and known baseline eGFR <90 mL/min/1.73 m²

	Model 1: Plasma Free Hemoglobin (mg/dL) (ref: unmeasured value)			Model 2: LDH (U/L) (ref: unmeasured value)			Model 3: Minimum Platelets (per 100/uL)		Model 4: Minimum Hemoglobin (per 1 g/dl)	
	HR (95% CI)		p	HR (95% CI)		p	HR (95% CI)	p	HR (95% CI)	p
Hemolysis Marker	<50	0.91 (0.12-6.99)	0.93	<2500	0.29 (0.04-2.32)	0.25	0.97 (0.92-1.02)	0.23	0.90 (0.80-1.00)	0.05
	>50	7.12 (3.53-14.4)	<0.01	>2500	2.86 (1.45-5.64)	<0.01				
Age^a (ref: <1 month)			0.37			0.12		0.19		0.52
1 month – 1 year		1.21 (0.58-2.54)			1.15 (0.55-2.40)			1.13 (0.53-2.41)		1.03 (0.49-2.15)
>1 year – 5 years		1.64 (0.77-3.51)			1.74 (0.83-3.65)			1.89 (0.86-4.16)		1.48 (0.69-3.20)
>5 years – 12 years		2.01 (0.79-5.09)			1.90 (0.74-4.89)			2.16 (0.83-5.60)		1.61 (0.64-4.06)
>12 years – 18 years		2.36 (0.98-5.70)			3.04 (1.29-7.19)			2.92 (1.16-7.36)		2.18 (0.89-5.32)
>18 years		2.68 (0.89-8.00)			3.08 (1.03-9.19)			2.96 (0.98-8.94)		2.10 (0.68-6.48)
Male Sex (vs. Female)		0.94 (0.63-1.39)	0.74		0.93 (0.62-1.38)	0.70		0.84 (0.56-1.26)	0.40	0.92 (0.62-1.36)
Hospital Unit/ECMO Mode (ref: CICU)			<0.01			<0.01		<0.01		<0.01
NICU/VV		0.00 (0-)			0.00 (0-)			0.00 (0-)		0.00 (0-)
NICU/VA		0.28 (0.14-0.54)			0.28 (0.14-0.54)			0.27 (0.14-0.54)		0.27 (0.14-0.52)
PICU/VV		1.56 (0.76-3.21)			1.50 (0.72-3.11)			1.63 (0.77-3.43)		1.66 (0.79-3.50)
PICU/VA		1.74 (0.78-3.90)			1.46 (0.66-3.25)			1.63 (0.72-3.68)		1.44 (0.64-3.24)
Abnormal Cr ECMO start		1.30 (0.81-2.08)	0.27		1.15 (0.72-1.85)	0.55		1.20 (0.74-1.95)	0.46	1.26 (0.79-2.02)
Average pH		0.01 (<0.01-0.16)	<0.01		0.01 (<0.01-0.23)	<0.01		0.01 (<0.01-0.24)	0.01	0.01 (<0.01-0.19)
Average Lactate		1.16 (1.10-1.23)	<0.01		1.16 (1.09-1.22)	<0.01		1.16 (1.09-1.23)	<0.01	1.15 (1.09-1.22)
Median MAP^b		0.98 (0.96-1.01)	0.19		0.99 (0.96-1.01)	0.22		0.98 (0.96-1.01)	0.21	0.99 (0.97-1.01)
Nephrotoxic Medication Count^c		0.80 (0.60-1.06)	0.12		0.81 (0.60-1.08)	0.14		0.79 (0.58-1.06)	0.11	0.79 (0.59-1.06)

a. Age at time of ECMO start
b. MAP (mean arterial pressure)
c. Based on NINJA list of nephrotoxins