

Table 2. Comparison of Demographics and Clinical characteristics between patients with hematochezia alone vs. patients who have developed NEC (N=59)

Characteristics		Hematochezia alone (N=39)	NEC (N=20)	P-value
Male sex		25 (64.1)	9 (45.0)	0.16
Caucasian race		32 (82.1)	16 (80.0)	1.00
Genetic anomaly		4 (10.3)	3 (15.0)	0.68
Non-cardiac anomaly		8 (20.5)	5 (25.0)	0.75
Fetal diagnosis		34 (87.2)	17 (85.0)	1.00
History of episode of shock		1 (2.6)	1 (5.0)	1.00
Gestational age, weeks		39 (38-39)	38.5 (37-39)	0.09
Prematurity (< 37 weeks)		0 (0.0)	3 (15.0)	0.04
Birth weight, kg		3.3 ± 0.5	3.0 ± 0.6	0.03
Apgar Scores				
1 minute	(N=55)	8 (7-8)	8 (8-9)	0.13
5 minute	(N=55)	9 (8-9)	9 (8-9)	0.34
Cardiac defect				0.73 [†]
AVSD – Unbalanced left		0 (0.0)	0 (0.0)	
AVSD – Unbalanced right		2 (5.1)	0 (0.0)	
Double Inlet Left Ventricle		1 (2.6)	0 (0.0)	
Double Outlet Right Ventricle		2 (5.1)	0 (0.0)	
Hypoplastic Left Heart Syndrome (any type)		30 (76.9)	17 (85.0)	
Other single ventricle		3 (7.7)	3 (15.0)	
Tricuspid Atresia/d-TGA		1 (2.6)	0 (0.0)	
Pre-Operative				
Ascending aortic arch size, mm	(N=52)	2.9 (2.2-4.1)	2.8 (2.3-5.1)	0.85
Maximum pre-op prostaglandin dose > 0.05		2 (5.1)	1 (5.0)	1.00
Highest pre-op lactate, mmol/L	(N=57)	3.2 (2.3-4.5)	3.4 (2.2-4.0)	0.98
Highest pre-op creatinine, mg/dL	(N=57)	0.76 (0.53-0.90)	0.60 (0.41-0.72)	0.049
Highest pre-op VIS within 24 hours of surgery	(N=42)	5 (5-8)	6 (5-7)	0.75
Required ventilator		18 (46.2)	11 (55.0)	0.52
Required subambient O ₂		13 (33.3)	6 (30.0)	0.80
Intra-Operative				
Age at Stage 1 surgery, days		4 (3-6)	5.5 (3-7.5)	0.40
Type of surgery				N/A
Norwood/Blalock-Thomas-Taussig Shunt		12 (30.8)	5 (25.0)	
Norwood/Sano Shunt		17 (43.6)	6 (30.0)	
Norwood/Central Shunt		5 (12.8)	3 (15.0)	
Hybrid Stage I		5 (12.8)	6 (30.0)	

Weight at stage I surgery, kg	3.3 ± 0.5	3.0 ± 0.5	0.046
Height at stage I surgery, cm (N=58)	50.5 ± 2.4	48.7 ± 4.4	0.09
Cardiopulmonary bypass time , minutes	84 (72-131)	121 (79-137)	0.17
Aortic cross-clamp time, minutes	40.5 (37-46)	40 (37-47)	0.91
Hypothermic circulatory arrest time, minutes	38.5 (35-45)	39 (36-47)	0.93
Shunt revision	3 (7.7)	4 (20.0)	0.21
Final shunt type			0.51
Blalock-Thomas-Taussig	13 (33.3)	8 (40.0)	
Sano	17 (43.6)	5 (25.0)	
Central	5 (12.8)	3 (15.0)	
N/A (Hybrid patients w/o shunt revision)	4 (10.3)	4 (20.0)	
Additional surgical procedures	7 (17.9)	5 (25.0)	0.52
Total Cardiopulmonary bypass time, minutes (N=51)	90 (72-133)	131 (104-184)	0.02

Post-Operative

Post-op Chylothorax	5 (12.8)	3 (15.0)	1.00
Post-op Positive cultures	2 (5.1)	1 (5.0)	1.00
Post-op Extracorporeal Membrane Oxygenation (ECMO)	2 (5.1)	4 (20.0)	0.17
Highest post-op lactate, mmol/L	6.6 (5.5-10.3)	6.5 (5.6-10.9)	0.87
Highest post-op creatinine, mg/dL	0.80 (0.70-0.90)	0.80 (0.74-1.04)	0.67
Highest VIS within 24 hours of surgery	21 (14-27)	23 (15.5-25.3)	0.89
Alternative anticoagulation strategies	16 (61.5)	12 (85.7)	0.16
Aspirin/Plavix	0/16 (0.0)	0/12 (0.0)	
Aspirin/Lovenox	1/16 (6.3)	0/12 (0.0)	
Heparin	15/16 (93.8)	10/12 (83.3)	
Other	3/16 (18.8)	3/12 (25.0)	
Unplanned post-operative/interstage catheterization	1 (2.6)	4 (20.0)	0.04

AVSD = Atrioventricular Septal Defect, d-TGA = d-Transposition of the Great Arteries, VIS = Vasoactive-Inotropic Score, N/A = not applicable

* Data are presented as N (%) for categorical variables and Median (interquartile range) or Mean ± Standard deviation for continuous variables.

§ P-value from Chi-square test or Fisher's exact test for categorical variables and Wilcoxon rank sum test or t-test for continuous variables.

† Comparison was made as Hypoplastic Left Heart Syndrome vs. all others and p-value came from Chi-square test.