

Table 1. Comparison of Demographics and Clinical characteristics between patients with and without hematochezia (N=135)

Characteristics		All (N=135)	Hematochezia		P-value
			Yes (N=59)	No (N=76)	
Male sex		78 (57.8)	34 (57.6)	44 (57.9)	0.98
Caucasian race		105 (77.8)	48 (81.4)	57 (75.0)	0.33
Genetic anomaly		13 (9.6)	7 (11.9)	6 (7.9)	0.44
Non-cardiac anomaly		27 (20.0)	13 (22.0)	14 (18.4)	0.60
Fetal diagnosis		110 (81.5)	51 (86.4)	59 (77.6)	0.19
History of episode of shock		8 (5.9)	2 (3.4)	6 (7.9)	0.47
Gestational age, weeks		39 (38-39)	39 (38-39)	39 (38-39)	0.73
Prematurity (< 37 weeks)		11 (8.1)	3 (5.1)	8 (10.5)	0.35
Birth weight, kg	(N=134)	3.2 ± 0.6	3.2 ± 0.6	3.2 ± 0.5	0.93
Apgar Scores					
1 minute	(N=126)	8 (8-8)	8 (7-8)	8 (8-8)	0.47
5 minute	(N=126)	9 (8-9)	9 (8-9)	9 (8-9)	0.61
Cardiac defect					0.52 [†]
AVSD – Unbalanced left		2 (1.5)	0 (0.0)	2 (2.6)	
AVSD – Unbalanced right		5 (3.7)	2 (3.4)	3 (3.9)	
Double inlet left ventricle		4 (3.0)	1 (1.7)	3 (3.9)	
Double outlet right ventricle		5 (3.7)	2 (3.4)	3 (3.9)	
Hypoplastic Left Heart Syndrome (any type)		104 (77.0)	47 (79.7)	57 (75.0)	
Other single ventricle		10 (7.4)	6 (10.2)	4 (5.3)	
Tricuspid Atresia/d-TGA		5 (3.7)	1 (1.7)	4 (5.3)	
Pre-Operative					
Ascending aortic arch size, mm	(N=118)	2.9 (2.2-5.0)	2.9 (2.2-4.1)	3 (2-5)	0.82
Maximum pre-op prostaglandin dose > 0.05		10 (7.4)	3 (5.1)	7 (9.2)	0.51
Highest pre-op lactate, mmol/L	(N=130)	3.4 (2.4-5.1)	3.3 (2.3-4.0)	3.7 (2.6-5.6)	0.07
Highest pre-op creatinine, mg/dL	(N=131)	0.63 (0.50-0.82)	0.70 (0.50-0.84)	0.60 (0.50-0.80)	0.54
Highest pre-op VIS within 24 hours of surgery	(N=99)	6 (5-8)	5 (5-7)	7 (5-8)	0.20
Required ventilator		69 (51.1)	29 (49.2)	40 (52.6)	0.69
Required subambient O ₂		46 (34.1)	19 (32.2)	27 (35.5)	0.69
Intra-Operative					
Age at Stage 1 surgery, days		5 (3-7)	5 (3-7)	5 (3-7)	0.36
Type of surgery					0.46
Norwood/Blalock-Thomas-Taussig Shunt		48 (35.6)	17 (28.8)	31 (40.8)	
Norwood/Sano Shunt		49 (36.3)	23 (39.0)	26 (34.2)	
Norwood/Central Shunt		18 (13.3)	8 (13.6)	10 (13.2)	

Hybrid Stage I	20 (14.8)	11 (18.6)	9 (11.8)	
Weight at stage I surgery, kg	3.2 ± 0.5	3.2 ± 0.6	3.2 ± 0.5	0.58
Height at stage I surgery, cm (N=133)	49.9 ± 3.7	49.9 ± 3.2	49.8 ± 4.0	0.94
Cardiopulmonary bypass time , minutes	95.5 (75.5-138)	89 (73.5-132)	100 (78.5-149)	0.27
Aortic cross-clamp time, minutes	40 (36-47)	40.5 (37-46.5)	40 (35.5-47.5)	0.90
Hypothermic circulatory arrest time, minutes	39 (35-46)	39 (35-45.5)	39 (35-46.5)	0.81
Shunt revision	15 (11.1)	7 (11.9)	8 (10.5)	0.81
Final shunt type				0.73
Blalock-Thomas-Taussig	52 (38.5)	21 (35.6)	31 (40.8)	
Sano	48 (35.6)	22 (37.3)	26 (34.2)	
Central	22 (16.3)	8 (13.6)	14 (18.4)	
N/A (Hybrid patients w/o shunt revision)	13 (9.6)	8 (13.6)	5 (6.6)	
Additional surgical procedures	32 (23.7)	12 (20.3)	20 (26.3)	0.42
Total Cardiopulmonary bypass time, minutes (N=124)	105 (78-154)	102 (75-150)	111 (80-155)	0.43

Post-Operative

Post-op Chylothorax	24 (17.8)	8 (13.6)	16 (21.1)	0.26
Post-op Positive cultures	5 (3.7)	3 (5.1)	2 (2.6)	0.65
Post-op Extracorporeal Membrane Oxygenation (ECMO)	24 (17.8)	6 (10.2)	18 (23.7)	0.04
Highest post-op lactate, mmol/L	7.4 (5.7-10.9)	6.6 (5.5-10.3)	8.2 (6.3-11.4)	0.052
Highest post-op creatinine, mg/dL	0.78 (0.66-0.98)	0.80 (0.71-0.90)	0.70 (0.60-0.99)	0.05
Highest VIS within 24 hours of surgery	22 (16-27)	21 (15-27)	22.5 (16-29)	0.27
Alternative anticoagulation strategies at any period of interstage	53/105 (50.5)	28/40 (70.0)	25/65 (38.5)	0.002
Aspirin/Plavix	2/53 (3.8)	0/28 (0.0)	2/25 (8.0)	
Aspirin/Lovenox	4/53 (7.5)	1/28 (3.6)	3/25 (12.0)	
Heparin	47/53 (88.7)	25/28 (89.3)	22/25 (88.0)	
Other	8/53 (15.1)	6/28 (21.4)	2/25 (8.0)	
Unplanned post-operative/interstage catheterization	16 (11.9)	5 (8.5)	11 (14.5)	0.28

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.