

	All LUTO infants n=33	RV _D /LV _D -ratio ₁ <1.1 n=23 (69.7%)	RV _D /LV _D -ratio ₁ >1.1 n=10 (30.3%)	p-value
Prenatal intervention	19 (57.6%)	11 (47.8%)	8 (80%)	0.089
Male	33 (100.0%)			
GA (wk+d ± d)	37+1 ± 17.5	37+2 ± 12.5	36+6 ± 26.4	0.341
BW (kg)	3.13 ± 0.6	3.2 ± 0.5	3.0 ± 0.8	0.217
Birth length (cm)	48.8 ± 4.8	49.5 ± 4.1	47.1 ± 6.0	0.095
HC (cm)	33.2 ± 2.3	33.5 ± 1.7	32.5 ± 3.3	0.107
APGAR 1	8 (IQR 6.5 – 8)	7.4 ± 1.1	6.6 ± 2.0	0.068
APGAR 5	8 (IQR 7.5 – 9)	8.3 ± 1.2	7.6 ± 2.9	0.177
APGAR 10	9 (IQR 8 – 10)	8.8 ± 0.9	8.3 ± 3.0	0.222
UA pH	7.23 ± 0.12	7.23 ± 0.09	7.22 ± 0.17	0.442
IV	14 (42.4%)	7 (30.4%)	7 (70.0%)	0.042*
IV length (d)	3.6 (IQR 0.6 – 10.5)	13.6 ± 14.8	2.6 ± 2.3	0.039*
NO	16 (48.5%)	12 (52.2%)	4 (40.0%)	0.397
NO length (d)	4.8 (IQR 0.7 – 21.3)	12.5 ± 18.3	9.16 ± 6.2	0.404
O2 length	4 (IQR 1 – 27.5)	23.1 ± 41.0	11.8 ± 7.8	0.299
O2 at discharge	1 (3%)	1 (4.3%)	0 (0%)	0.259
Suprapubic catheter	23 (69.7%)	16 (69.6%)	7 (70%)	0.657
Dialysis	6 (18.2%)	4 (17.4%)	2 (20.0%)	0.605
ECMO	3 (9.1%)	2 (8.7%)	1 (10.0%)	0.675
Length of stay (days)	19 (IQR 8.3 – 33)	27.8 ± 31.8	28.3 ± 29.8	0.483
Mortality	0 (0%)			
RVD ₁	1.32 ± 0.30	1.26 ± 0.22	1.5 ± 0.42	0.026*
LVD ₁	1.34 ± 0.28	1.39 ± 0.22	1.22 ± 0.38	0.062
RV _D /LV _D -ratio ₁	1.01 ± 0.17	0.91 ± 0.10	1.23 ± 0.55	<0.001*
RVD ₂	1.13 ± 0.19	1.15 ± 0.16	1.05 ± 0.27	0.177
LVD ₂	1.22 ± 0.23	1.24 ± 0.24	1.15 ± 0.24	0.256
RV _D /LV _D -ratio ₂	0.93 ± 0.10	0.94 ± 0.11	0.89 ± 0.09	0.197
Cystatin C ₁ (mg/l)	3.28 ± 1.05	3.47 ± 1.01	2.84 ± 1.07	0.061
Cystatin C ₂ (mg/l)	2.86 ± 1.10	3.09 ± 1.03	2.29 ± 1.11	0.031*
Creatinine ₁ (mg/dl)	0.91 ± 0.44	0.98 ± 0.48	0.74 ± 0.25	0.079
Creatinine ₂ (mg/dl)	1.92 ± 1.49	2.28 ± 1.50	1.00 ± 1.00	0.012*
BUN ₁ (mg/dl)	22.92 ± 10.96	22.91 ± 12.57	22.94 ± 6.38	0.497
BUN ₂ (mg/dl)	58.19 ± 35.71	67.36 ± 35.51	34.73 ± 24.74	0.009*
NTproBNP ₁ (pg/ml)	83343.67 ± 94457.36	25566.75 ± 31316.77	198897.5 ± 40133.26	0.002*
NTproBNP ₂ (pg/ml)	43893.20 ± 68718.79	15089.33 ± 20931.78	87099.00 ± 108583.32	0.156
Troponin ₁ (ng/ml)	91.37 ± 159.49	149.13 ± 195.81	4.73 ± 6.6	0.198

Table 1: Overview of demographics and analyzed parameters for overall cohort, and for patients with RV_D/LV_D-ratio >1.1 and <1.1 on day of life 1 (1) and 6 – 8 (2). Results are reported as absolute numbers (n) with %, mean ± standard deviation, or median with IQR. A p-value <0.05 is considered statistically significant and marked*.

BUN: blood urea nitrogen; BW: birth weight; ECMO: extracorporeal membrane oxygenation; d: days; GA: gestational age; HC: head circumference; IV: invasive ventilation; IQR: interquartile range; LUTO: lower urinary tract obstruction; LVD: left ventricular diameter; NO: nitric oxide; NTproBNP: N-terminal pro b-type natriuretic peptide; RVD: right ventricular diameter; UA: umbilical artery; wk: weeks.