

Table Legend

Table 1: Patient characteristics

Variables	Group 1(Weaning Failure) (n=7)	Group 2 (Successful weaning) (n=43)	<i>p-value</i>
Demographic variables			
Sex% (M: F) ^h	71.4: 55.8	55.8: 44.2	0.684
Age (years)	1(0.25-7)	3(0.25-17)	0.040
BMI (kg/m ²) ⁱ	15.04±4.75	13.83±3.67	0.529
Surgery	TOF/ICR ^a =5, VSD ^b closure =1, ASD ^c +VSD closure +PDA ^d ligation=1	TOF/ICR=15, VSD closure=13, ASD closure=8, TAPVC ^e repair=4, ASO ^f =1, Rastelli's procedure=1, Fontan completion =1 AP ^g window closure -1	
Comorbidities	Downs Syndrome =1	Skeletal Deformities =2, Seizure Disorder=1	
Intraoperative outcomes			
Minimum Intraoperative Temperature (° Celsius)	33.15±1.87	33.37±3.72	0.378
CPB ^j Time (min)	127.57±60.35	121.53±68.84	0.675
AXC ^k Time (min)	90.71±40.37	80.12±57.49	0.371
Fluid balance at the end of CPB (ml/kg)	-4.29(-26.67-7.14)	-5.00(-43.75 -58.33)	0.878
Postoperative outcomes			
LVEF ^l			
Baseline	65.66±3.14	64.47±4.00	0.509
PS	64.42±3.50	63.57±4.22	0.737
Post extubation	63.42±4.99	63.57±4.14	0.803
E/e ^{° m}			
Baseline	6.89±0.42	7.03±0.81	0.886
PS	7.00±0.41	7.11±0.86	0.857
Post extubation	7.49±1.04	7.03±0.70	0.299
PF ⁿ			
Baseline	292.38±103.67	396.52±82.49	0.030
PS	221.46±56.12	280.03±94.82	0.142
Post extubation	348.69±246.21	292.88±108.95	0.801
RSBI ^o	297.86±238.46	176.23±143.04	0.154
Fluid balance before extubation (ml/kg)	-10.36(-36.47-0.67)	-4.29(-98.88-36.00)	0.301
MV ^p Duration (Hours)	23.50(12-236)	13(1-94)	0.019
ICU ^q Stay Days	9(3-17)	3.00(2-9)	0.002
NIV ^r	3(42.8%)	3(7%)	0.029

Table foot note: (a)TOF/ICR- Tetralogy of Fallot/intra-cardiac repair (b) VSD- ventricular septal defect (c) ASD- atrial septal defect (d) PDA-patent ductus arteriosus (e) TAPVC- total anomalous pulmonary venous connection (f) ASO- arterial switch operation (g) AP window -aorto-pulmonary window (h) M:F – ratio of male to female (i) BMI- body mass index (j)CPB- cardiopulmonary bypass (k) AXC -aortic cross clamp (l)LVEF- left ventricular ejection fraction (m) E/e' - ratio of mitral early inflow velocity to early tissue doppler velocity (n)PF – ratio of PaO₂/FiO₂ (o) RSBI -rapid shallow breathing index (p)MV- mechanical ventilation (q) ICU- intensive care unit (r) NIV- non- invasive ventilation

Table 2: The right and the left diaphragm excursion

Right diaphragm excursion (cm)				Left diaphragm excursion (cm)				
Outcome	Baseline	PS	Post-extubation	p-value	Baseline	PS	Post-extubation	p-value
Group 1	1.3±0.6	0.5±0.3	0.7±0.4	0.03 [^] 0.04 [*] 0.11 [#]	1.3±0.7	0.6±0.5	0.5±0.4	0.08 [^] 0.07 [*] 0.02 [#]
Group 2	1.1±0.8	0.6±0.5	0.7±0.6	0.00 [^] 0.00 [*] 0.00 [#]	1.0±0.6	0.5±0.4	0.6±0.4	0.00 [^] 0.06 [*] 0.00 [#]
p-value	0.36	0.96	0.79		0.30	0.73	0.54	

Values as mean and standard deviation (cm), [^] p-value from baseline to PS, ^{} p-value from PS to post-extubation, [#] p-value from baseline to post-extubation*

Table 3: Diaphragm thickness at expiration

Right diaphragm thickness (cm)				Left diaphragm thickness (cm)				
Outcome	Baseline	PS	Post-extubation	p-value	Baseline	PS	Post-extubation	p-value
Group 1	0.2(0.8-0.1)	0.2(0.1-0.4)	0.2(0.1-0.4)	0.3 [^] 0.2* .6#	0.2(0.1-0.4)	0.2 (0.1-0.4)	0.2(0.1-0.4)	0.6 [^] 0.6* 0.2#
Group 2	0.2(0.1-5.1)	0.2(0.04-0.9)	0.2(0.1-1.2)	0.1 [^] 0.5* 0.1#	0.1(0.0-0.4)	0.2 (0.1-1.4)	0.2(0.04-4.7)	0.0 [^] 0.1* 0 .2#
p-value	0.6	0.8	0.6		0.1	0.6	0.5	

*Values are measured as median and range (mm), [^] p-value from baseline to PS, * p-value from PS to post-extubation, # p-value from baseline to post-extubation*