

Table 2: Clinical, Respiratory, and PDA-related Echocardiographic Parameters Before and After Dexamethasone

Parameter	Before Dexamethasone / Echo 1, N=15	After Dexamethasone / Echo 2, N=15	P value
Postnatal age in days, mean (SD)	18.67 (4.69)	28.07 (6.49)	NA
Corrected Gestational age in weeks, mean (SD)	27.18 (1.33)	28.55 (1.45)	NA
Days of echo in relation to dex start	0 ± 0	9.40 ± 4.88	NA
Respiratory Support Type			-
MAP in mmHg, mean (SD)	12.80(2.46)	11.75(2.00)	0.118
PEEP in mmHg, mean (SD)	10.25(2.42)	9.23 (1.39)	0.213
FiO2 in percentage, mean (SD)	48.67 (16.62)	39.80 ± 10.80	0.061
PDA present, n (%)	15 (100)	10 (66.7)	-
<u>PDA Size (mm), mean (SD)</u>	1.57 (0.51)	1.01(0.78)	0.010*
PDA peak systolic velocity/PDA end-diastolic velocity, mean (SD)	3.05 (1.05)	2.61 (1.40)	0.316
LPA End Diastolic velocity (cm/s), mean (SD)	40.34 (11.16)	37.56 (17.79)	0.759

LA/AO ratio, mean (SD)	1.57 (0.23)	1.59 (0.28)	0.854
Mitral Inflow A wave in cm/sec, mean (SD)	75.31 (12.05)	82.67 (21.12)	0.245
Mitral Inflow E wave in cm/sec, mean (SD)	65.97 (12.14)	76.56 (29.39)	0.076
Mitral Inflow E:A ratio, mean (SD)	0.87 (0.14)	0.89 (0.25)	0.793
LVO (ml/kg/min), mean (SD)	301.54 (81.53)	329.12 (128.48)	0.343
LVEDD (cm), mean (SD)	1.36 (0.26)	1.37 (0.34)	0.797
IVRT (sec), mean (SD)	0.04(0.01)	0.03(0.01)	0.397
Pulmonary vein S wave (cm/s), mean (SD)	49.18(8.97)	41.20 (10.85)	0.056
Pulmonary Wave D wave in cm/sec, mean (SD)	46.81 (10.60)	43.83 (11.28)	0.515
<u>PDA hemodynamic Significance score, mean (SD)</u>	9.4 (3.78)	6.13 (6.19)	0.021*
Abb: MAP: Mean Airway Pressure, PEEP: Peak End Expiratory Pressure, FiO2: Fractional inspired Oxygen, SD: standard deviation, PDA: Patent Ductus Arteriosus, LPA: Left Pulmonary Artery, LA: Left Atrium, Ao: Aortic root, LVO: Left Ventricular Output, LVEDD: Left Ventricular End Diastolic Diameter, IVRT: Isovolumetric Relaxation time			