

TABLE 1: Fetal ultrasound and echocardiography

| | Group A: PTL/PPROM with IIA (n=41) | Group B: PTL/PPROM without IIA (n=54) | Group C: Control (n=48) | p1 (A vs. B) | p2 (A vs. C) | p3 (B vs. C) |
|---|---|--|------------------------------------|-------------------------|-------------------------|-------------------------|
| GA at ultrasound | 27.9 (28.7-31.1) | 29.6 (27-31.2) | 29.4 (26.6 – 31.3) | 0.380 | 0.481 | 0.900 |
| Cause of admission | PTL: 13 (31.7%) PPROM:28 (68.3%) | PTL: 48 (88.9%) PPROM: 6 (11.1%) | | <0.001 | - | - |
| EFW < 10th centile | 11 (26.8%) | 7 (13.0%) | 4 (8.3%) | 0.088 | 0.020 | 0.452 |
| Cardiothoracic ratio (%) | 29.2 (25.4-33.2) | 27.2 (24.5 – 30.8) | 28.7 (26.1 – 31.5) | 0.625 | 0.448 | 0.563 |
| Right ventricle wall thickness, mm | 3.4 (3.2 – 4.2) | 3 (2.5-3.7) | 3.1 (2.6 – 3.3) | 0.112 | <0.001 | 0.098 |
| Left ventricle wall thickness, mm | 3.3 (2.8 – 4.2) | 3.4 (2.6 – 4.0) | 2.8 (2.4 – 3.3) | 0.818 | 0.002 | 0.007 |
| Septal wall thickness, mm | 4.1 (3.6 – 4.9) | 3.7 (3.1 – 4.2) | 3.6 (3.1 – 4.0) | 0.112 | <0.001 | 0.075 |
| right relative wall thickness | 0.79 (0.70 – 0.94) | 0.72 (0.64 – 0.87) | 0.65 (0.56 – 0.81) | 0.040 | <0.001 | 0.019 |
| left relative wall thickness | 0.82 (0.64 – 1.03) | 0.79 (0.66 – 0.92) | 0.69 (0.56 – 0.83) | 0.982 | 0.011 | 0.042 |
| Tricuspid A duration fraction ¹ | 0.23 (0.21-0.25) | 0.24 (0.22-0.25) | 0.21 (0.20-0.23) | 0.114 | 0.020 | 0.001 |
| Left isovolumic relaxation time (IRT, %) ² | 12.9 (11.5-14.5) | 11.7 (10.5-13.1) | 11.9 (10.3-13.0) | 0.510 | 0.049 | 0.860 |
| Left ejection time (ET, %) ² | 39.0 (37.6-41.1) | 39.6 (37.6-41.6) | 39.9 (38.5-42.4) | 0.648 | 0.046 | 0.242 |
| Left MPI index ³ | 0.55 (0.47-0.65) | 0.52 (0.45-0.57) | 0.49 (0.43-0.56) | 0.868 | 0.016 | 0.276 |

PTL: Preterm labor; PPROM: Preterm premature rupture of membranes; IIA: intraamniotic infection and/or inflammation; CRP: C-Reactive protein; WBC: White Blood Cells; AF: Amniotic fluid; GA: Gestational age; EFW: Estimated fetal weight; MPI: Myocardial performance index.

Continuous variables were compared using multiple lineal regression and presented as medians (25th-75th interquartile percentile). Categorical variables were compared using logistic regression and presented as number (%).

Data was adjusted for estimated fetal weight below the 10th percentile and for PPROM at admission.

¹ **Tricuspid A time fraction:** tricuspid A duration (ms) / total cycle duration (ms); ² **IRT, ET:** (IRT or ET (ms) / total cycle duration (ms))*100; ³ **MPI:** (ICT (ms) + IRT (ms)) / ET (ms)