

Table 3. Fetal cardiac assessment of the studied groups

	SC (n=39)	Non-biopsied ICSI (n=37)	Biopsied ICSI (n=37)	Unadjusted P value	Adjusted P1	Adjusted P2	Adjusted P3
Cardiac morphometric data							
Cardiothoracic ratio	0.27 ± 0.03 ^a	0.29 ± 0.03 ^a	0.31 ± 0.04 ^b	<0.001	0.358	<0.001	<0.001
Left atrial/heart ratio (mm ²)	13.31 ± 2.73	12.89 ± 2.38	13.35 ± 2.03	0.661	0.325	0.794	0.196
Right atrial/heart ratio	14.72 ± 1.5 ^a	17.78 ± 2.06 ^b	18.73 ± 1.79 ^b	<0.001	<0.001	<0.001	0.011
Left ventricular sphericity index	1.74 ± 0.25	1.84 ± 0.18	1.80 ± 0.22	0.142	0.028	0.267	0.298
Right ventricular sphericity index	1.57 ± 0.16 ^a	1.40 ± 0.11 ^b	1.43 ± 0.09 ^b	<0.001	<0.001	<0.001	0.470
Left ventricular free wall thickness (mm)	3.04 ± 0.19 ^a	3.17 ± 0.28 ^a	3.50 ± 0.32 ^b	<0.001	0.016	<0.001	0.002
Septal wall thickness (mm)	3.09 ± 0.21 ^a	3.44 ± 0.34 ^b	3.47 ± 0.34 ^b	<0.001	<0.001	<0.001	0.977
Right ventricular free wall thickness (mm)	3.03 ± 0.18 ^a	3.18 ± 0.23 ^b	3.18 ± 0.29 ^b	0.005	<0.001	<0.001	0.833
Myocardial Performance Index	0.49 ± 0.04 ^a	0.59 ± 0.05 ^b	0.6 ± 0.04 ^b	<0.001	<0.001	<0.001	0.587
Systolic function data							
Left ejection fraction (%)	85.62 ± 7.67	87.86 ± 3.15	87.16 ± 3.3	0.16	0.103	0.10	0.873
Right ejection fraction (%)	65.6 ± 7.27 ^a	61.46 ± 6.97 ^b	63.22 ± 6.04 ^{ab}	0.032	0.009	0.288	0.127
MAPSE (mm)	4.85 ± 0.8	4.95 ± 0.51	4.86 ± 0.59	0.774	0.785	0.532	0.331
TAPSE (mm)	5.95 ± 0.4	5.99 ± 0.33	5.92 ± 0.35	0.725	0.948	0.983	0.966
Diastolic function data							
Mitral E/A ratio	0.68 ± 0.07 ^a	0.64 ± 0.08 ^b	0.66 ± 0.06 ^{ab}	0.022	0.200	0.896	0.147
Tricuspid E/A ratio	0.73 ± 0.06	0.74 ± 0.08	0.71 ± 0.05	0.345	0.388	0.643	0.164
Left isovolumic relaxation time (ms)	54.44 ± 6.72	55.08 ± 4.4	55.14 ± 2.97	0.792	0.083	0.325	0.491

Numerical data are presented as mean ± SD, Statistical significance at P value<0.05, Different lower-case letters indicate significant difference in pairwise comparison. Comparisons were adjusted by parity and birthweight centile, Adjusted P1: Comparison between Non-biopsied ICSI and SC groups, Adjusted P2: Comparison between Biopsied ICSI and SC groups. Adjusted P3: Comparison between Non-biopsied ICSI and Biopsied ICSI, MAPSE: Mitral annular plane systolic excursion, TAPSE: Tricuspid annular plane systolic excursion