

**Table 1: Neonatal demographic data for Infants of diabetic mothers  
(IDMs) and control groups.**

Item	Group I	Group II	P value
	IDMs (n=70)	Control (n=40)	
<b>Gestational age(Weeks)</b>	38.88 ± 0.843	38.1 ± 0.901	
Mean ± SD Range	(40 - 38)	(40 – 38)	0.186
<b>Birth weight (Kg)</b>			
Mean ± SD	3.45 ± 0.535	2.94 ± 0.228	0.001**
Range	(2.6 - 4.2)	(2.35 - 3.4)	
<b>Mode of delivery</b>			
NVD CS	13 (19 %)	15 (38 %)	0.041*
	57 (81 %)	25 (62%)	
<b>Sex</b>			
<b>Male Female</b>	32 ( 45.7 % )	20 ( 50 % )	0.527
	38 ( 54.3 % )	20 ( 50 % )	

Cs, caesarean section; NVD, spontaneous vaginal delivery; SD, standard deviation.

\*: significant difference at p value < 0.05

**Table 2 : Studied laboratory data of IDMs and control groups.**

Item	Group I IDMs (n=70)	Group II Control (n=40)	P value
<b>Neonatal HB (gm %)</b>			
Mean ± SD Range	15.5 ± 0.96 (14 – 17)	13.9 ± 0.65 (12 – 15)	0.041*
<b>Neonatal Hematocrit (%)</b>			
Mean ± SD Range	47.9 ± 2.68 (40.5 – 57)	43.7 ± 2.20 (35 – 46)	0.001**
<b>Neonatal WBCs (cu.mm× 10<sup>9</sup> / L) Mean ± SD</b>			
Range	11 ± 3.26 (5.5 – 13)	10.7± 2.98 (5 – 12.4)	0.082
<b>Neonatal Platelets (1000's /cu.mm)</b>			
Mean ± SD			
Range	270 ± 1.43 (225 – 310)	268 ± 1.63 (216 – 304)	0.164
<b>Neonatal blood glucose (mg/dl)</b>			
Mean ± SD			
	34.6±11.3	77.2±19.8	0.05*
<b>Cord blood HbA1c (%)</b>			
Mean ± SD Range	7.49 ± 0.95 (5.7 – 8.9)	4.218±0.165 (4.0 – 4.4)	0.027*
<b>Cord blood MCP-1</b>			
Mean ± SD Range	389.4 ± 97.5 (243 – 590)	200.85 ± 37.94 (104 – 280)	0.024*

Student' test to compare between mean of two groups of numerical (Parametric) data.

Chi square test for qualitative data between groups

\*: significant difference at p value < 0.05

HB, hemoglobin ; WBCs, White blood cells; HbA1c, glycated hemoglobin A1c; Monocyte chemotactic protein-1 (MCP-1).

**Table 3: echocardiographic data in IDMs and controls**

<b>Item</b>	<b>Group I IDMs (n=70)</b> Mean ± SD	<b>Group II Control (n=40)</b> Mean ± SD	<b>P value</b>
<b>IVSd(mm)</b>	4.157 ± 0.63	3.140 ± 0.11	0.007**
<b>IVSs(mm)</b>	4.906 ± 0.54	4.22 ± 0.91	0.001**
<b>LVPW(mm)</b>	3.85 ± 1.27	3.20 ± 0.37	0.002**
<b>LVDd(mm)</b>	16.2 ± 1.3	15.1 ± 0.97	0.0035**
<b>LVDs(mm)</b>	11.4 ± 1.04	9.120 ± 0.53	0.001**
<b>RVDd(mm)</b>	41.62 ± 2.47	37.3 ± 2.24	0.007**
<b>AOV(mm)</b>	9.54 ± 1.15	9.13 ± 0.854	0.418
<b>FS (%)</b>	36.11 ± 5.31	41.2 ± 0.992	0.041*
<b>EF (%)</b>	69.12 ± 3.98	73.53 ± 4.71	0.049*

AOV, aortic valve diameter; FS, fractional shortening ; EF, ejection fraction; IVSd, interventricular septal end-diastolic thickness; IVSs, interventricular septal end-systolic thickness; LVDd, left ventricular end-diastolic dimension; LVDs, left ventricular end-systolic dimension; LVPW, left ventricular posterior wall thickness; RVDd, right ventricular end-diastolic dimension; SD, standard deviation.

Chi square test for qualitative data between groups

\*: significant difference at p value < 0.05

**Table 4: Correlation between cord blood HbA1c, cord blood MCP – 1, and echocardiographic measures and birth weight in IDMs group .**

Item	Cord blood HbA1c		Cord blood MCP - 1	
	r	p	r	p
<b>IVSd</b>	0.724	0.000*	0.793	0.000*
<b>IVSs</b>	0.605	0.000*	0.687	0.000*
<b>LVPW</b>	0.298	0.012*	0.465	0.000*
<b>LVDd</b>	0.433	0.000*	0.252	0.035*
<b>LVDs</b>	0.544	0.000*	0.557	0.000*
<b>RVDd</b>	0.604	0.000*	0.548	0.000*
<b>AOV</b>	0.673	0.000*	0.000*	0.000*
<b>FS ( % )</b>	-0.551-	0.000*	-0.666-	0.000*
<b>EF ( % )</b>	-0.688-	0.000*	-0.666-	0.000*
<b>Birth weight</b>	0.706	0.000	0.734	0.000

\*: significant difference at p value < 0.05

**Table 5: correlation between birth weight and echocardiographic measurements.**

Item	Birth weight	
	r	p
<b>IVSd</b>	0.768	0.001**
<b>IVSs</b>	0.859	0.001**
<b>LVPW</b>	0.412	0.001**
<b>LVDd</b>	0.792	0.001**
<b>LVDs</b>	0.781	0.001**
<b>RVDd</b>	0.820	0.001**
<b>AOV</b>	0.784	0.001**
<b>FS ( % )</b>	- 0.612	0.004**
<b>EF ( % )</b>	- 0.537	0.063

AOV, aortic valve diameter; FS, fractional shortening , EF, ejection fraction ;HbA1c, glycated hemoglobin A1c; IVSd, interventricular septal end-diastolic thickness; IVSs, interventricular septal end-systolic thickness; LVDd, left ventricular end-diastolic dimension; LVDs, left ventricular end- systolic dimension; LVPW, left ventricular posterior wall thickness; p, probability value RVDd, right ventricular end-diastolic dimension Monocyte chemotactic protein-1 (MCP-1) .

Pearson's correlations were performed to asses unadjusted association between the Echocardiographic measurements with birth weight, maternal HbA1c and cord blood MCP- 1.  
\*: significant difference at p value < 0.05