

**Table 1: Characteristics of studied population**

<b>Patients characteristics</b>	<b>Summary statistics</b>
<b>Age/year</b> Mean $\pm$ SD Median (range)	11.68 $\pm$ 3.04 11.5 (7-16)
<b>Gender</b> Females Males	22 (50.00%) 22 (50.00%)
<b>Age of onset/year</b> Mean $\pm$ SD Median (range)	8.45 $\pm$ 3.78 8 (2-14)
<b>Duration of diseases/year</b> Mean $\pm$ SD Median (range)	3.05 $\pm$ 2.61 2 (1-12)
<b>Weight /kg</b> Mean $\pm$ SD Median (range)	33.73 $\pm$ 7.90 34 (22-51)
<b>Length/cm</b> Mean $\pm$ SD Median (range)	137.18 $\pm$ 12.88 131.5 (120-160)
<b>BMI</b> Mean $\pm$ SD Median (range)	17.87 $\pm$ 3.01 17.84 (10.27-23.60)
<b>Family history</b> No Yes	32 (72.73%) 12 (27.27%)

**Table 2: Cardiac examination of studied population**

<b>Cardiac examination</b>	<b>Summary statistics</b>
<b>Chest examination</b> Free	44 (100%)
<b>Pericardial bulge</b> No	44 (100%)
<b>Systolic blood pressure (mmHg)</b> Mean $\pm$ SD Median (range)	107.41 $\pm$ 8.30 110 (90-120)
<b>Diastolic blood pressure (mmHg)</b> Mean $\pm$ SD Median (range)	65.36 $\pm$ 6.68 65 (55-75)
<b>Pulsation</b> Mean $\pm$ SD Median (range)	64.91 $\pm$ 4.19 65 (60-70)
<b>1st HS</b> Normal Muffled	40 (90.91%) 4 (9.09%)
<b>2nd HS</b> Normal Accentuated	38 (86.1%) 6 (13.9%)
<b>Thrill</b> No Systolic thrill	40 (89.1%) 4(10.9)
<b>Murmur</b> No Yes	36 (81.82%) 8 (18.18%)

**Table 3: Cardiac function of studied population**

<b>Cardiac function</b>	<b>Summary statistics</b>
<b>Ejection fraction</b> Mean $\pm$ SD Median (range)	64.32 $\pm$ 5.93 65.5 (50-75)
<b>Shorting fraction</b> Mean $\pm$ SD Median (range)	34.59 $\pm$ 3.71 35 (24-40)
<b>Left Atrial dimension (LA)</b> Mean $\pm$ SD	21.18 $\pm$ 2.25
<b>Left ventricular End Systolic dimensions (LVESD)</b> Mean $\pm$ SD Median (range)	34.68 $\pm$ 5.29 37 (23-45)
<b>Left ventricular End Diastolic dimensions (LVEDD)</b> Mean $\pm$ SD Median (range)	38.68 $\pm$ 12.31 44.5 (34.3-52)
<b>Left ventricular posterior wall dimensions</b> Mean $\pm$ SD Median (range)	13.27 $\pm$ 1.62 13 (11-18)
<b>Septal wall thickness(IVS)</b> Mean $\pm$ SD Median (range)	12.95 $\pm$ 1.47 12.5 (10-16)
<b>Pericardium</b> Intact Mild effusion Thick pericardium	39 (88.64%) 4 (9.09%) 1 (2.27%)
<b>Mitrial valve</b> Normal Mitral regurge	36 (81.82%) 8 (18.18%)
<b>Tricuspid valve</b> Normal Tricuspid regurge	36 (81.36%) 8 (18.64%)
<b>Pulmonary valve (Normal)</b>	44 (100%)
<b>Aortic valve (Normal)</b>	44 (100%)
<b>Troponin (ng/mL)</b> Mean $\pm$ SD Median (range)	0.07 $\pm$ 0.07 0.04 (0.01-0.25)
<b>Creatine Kinase (CK-MB), (IU/L)</b> Mean $\pm$ SD Median (range)	148.09 $\pm$ 167.66 77 (30-728)
<b>Lactate Dehydrogenase LDH (IU/L)</b> Mean $\pm$ SD Median (range)	260.09 $\pm$ 244.16 209.45 (70-1323)
<b>Myoglobin (ng/mL)</b> Mean $\pm$ SD Median (range)	61 $\pm$ 27.38 55 (23-112)

**Table 4: Comparison between diagnoses of the disease as regard Cardiac function of studied population**

Cardiac function	Diagnosis of the disease			P value
	IRA N=20	SLE N=14	Dermatomyositis N=10	
<b>Ejection fraction</b> Mean ± SD Median (range)	64.8±4.25 64.5 (60-75)	64.29±7.35 67 (50-75)	63.4±7.10 66 (50-68)	0.84
<b>Shorting fraction</b> Mean ± SD Median (range)	34.3±3.44 34 (30-40)	35.86±2.18 36 (33-38)	33.4±5.48 35 (24-38)	0.26
<b>Left Atrial dimension</b> Mean ± SD	20.8±1.94	22 ±2.83	20.8±1.81	0.26
<b>LVESD dimensions</b> Mean ± SD Median (range)	36.7±4.16 37 (29-45)	32.86±6.53 37 (23-38)	33.2 ± 4.39 34 (27-38)	0.07
<b>LVEDD dimensions</b> Mean ± SD Median (range)	37.03±12.84 40 (4.3-52)	39.53±14.77 45 (4.7-52)	40.8±6.97 44 (32-49)	0.71
<b>LV posterior wall</b> Mean ± SD Median (range)	13.2±1.28 14 (11-15)	12.71±1.33 12 (11-15)	14.2 ±2.25 13 (12-18)	0.08
<b>Septal wall thickness</b> Mean ± SD Median (range)	13±1.72 12.5 (10-16)	12.43±1.22 12 (11-15)	13.6 ±1.07 14 (12-15)	0.16
<b>Pericardium</b> Intact Mild effusion Thick pericardium	18 (90.00%) 1 (5.00%) 1 (5.00%)	14 (100%) 0 0	7 (70.00%) 3 (30.00%) 0	0.08
<b>Mitral Valve</b> Normal Mitral regurge	18 (85.00%) 1 (15.00%)	10 (71%) 2 (29.57)	4 (40.00%) 5 (60.00%)	0.71
<b>Tricusped Valve</b> Normal Tricuspid regurge	18 (85.00%) 2 (15.00%)	10 (71%) 3 (28.57)	6 (70.00%) 3 (30.00%)	0.08
<b>Troponin (ng/ml)</b> Mean ± SD Median (range)	0.07±0.08 0.03 (0.01-0.25)	0.04±0.02 0.04 (0.01-0.06)	0.03±0.07 0.08 (0.03-0.2)	0.16
<b>CK-MB (u/l)</b> Mean ± SD Median (range)	132.58±114.62 91 (30-433)	65.51±24.54 54 (38.4-107)	194.72±165.81 210 (42.6-728)	0.08
<b>LDH</b> Mean ± SD Median (range)	210.32±66.83 213.9 (110-317)	189.4±71.72 186.8 (70-316)	258.58±349.25 290 (160-1323)	0.71
<b>Myoglobin (ng/ml)</b> Mean ± SD Median (range)	57.77±27.82 60.5 (23-96)	50.47±21.21 45 (30-91.3)	62.2±24.5 60 (55-112)	0.07