

Table (1): Age and BMI of the confirmed DMD patients (n=53)

		Group A (n=33)		Group B (n=20)		Total		P-value
Age (years)	Range	3.00	- 18.00	10.00	- 16.00	3	- 18	0.001**
	Mean± S.D	7.65	± 3.08	12.90	± 1.62	9.63	± 3.66	
BMI (kg/m ²)	Range	12.5	- 23.4	13.9	- 34.8	12.5	- 34.8	0.001**
	Mean± S.D	17.22	± 2.57	23.48	± 4.72	19.58	± 4.75	

Table (2): Residence, family history, and consanguinity of the confirmed DMD patients (n=53)

	Group A (n=33)		Group B (n=20)			Total		P-value
	N	%	N	%	N	%	χ^2	
Residence								
Urban	14	42.4%	7	35.0%	21	39.6%	0.287	0.592
Rural	19	57.6%	13	65.0%	32	60.4%		
Family history								
Negative	19	57.6%	15	75.0%	34	64.2%	1.644	0.200
Positive	14	42.4%	5	25.0%	19	35.8%		
Consanguinity								
No	14	42.4%	7	35.0%	21	39.6%	0.287	0.592
Yes	19	57.6%	13	65.0%	32	60.4%		

Table (3): Neurological examination and CPK and LDH level of confirmed DMD patients, n:53

		Groups				Total		χ^2	P-value		
		Group A (n=33)		Group B (n=20)							
		N	%	N	%	N	%				
Muscle tone											
Hypotonia		33	100.0%	13	65.0%	46	86.8%	13.31	0.001**		
Hypotonia with contracture of joints		0	0.0%	7	35.0%	7	13.2%				
Deep Tendon Reflexes											
Hyporeflexia		33	100.0%	20	100.0%	53	100.0%	0.00	1.00		
Muscle state											
Calf hypertrophy		33	100.0%	3	15.0%	36	67.9%	41.29	0.001**		
Muscle wasting		0	0.0%	17	85.0%	17	32.1%				
Gower sign											
Negative		2	6.1%	20	100.0%	22	41.5%	45.26	0.001**		
Positive		31	93.9%	0	0.0%	31	58.5%				
CPK and LDH enzymes											
CPK	Range	515	-	35930	328	-	59000	328	-	59000	0.626
	Mean± S. D	10057	±	7936	11591	±	14856	10636	±	10953	
LDH	Range	206	-	12269	214.00	-	8734	206	-	12269	0.912
	Mean± S. D	1120	±	2051	1182	±	1847	1144	±	1959	
	Range	11.69	±	1.35	10.35	±	1.49	328	-	59000	

Table (4): IQ findings in confirmed DMD patients n:53

IQ test		Group A (n=33)			Group B (n=20)			Total			P-value
IQ test verbal	Range	50	-	98	60	-	83	50	-	98	0.001**
	Mean± S. D	80.79	±	9.91	71.10	±	7.81	77.13	±	10.25	
IQ test total	Range	52	-	105	64	-	86	52	-	105	0.001**
	Mean± S. D	83.97	±	10.60	74.30	±	8.13	80.32	±	10.75	

Table (5): ECHO findings in confirmed DMD patients n:53

Cardiac function		Group A (n=33)			Group B (n=20)			Total			P-value
EF	Range	50.00	-	92.00	34.00	-	72.00	34	-	92	0.001**
	Mean± S. D	69.79	±	11.07	51.80	±	11.80	63	±	14.27	
FS	Range	25.00	-	48.00	17.00	-	37.00	17	-	48	0.001**
	Mean± S. D	36.12	±	5.61	26.45	±	6.79	32.47	±	7.66	
Echo findings				N	%	N	%	P-value			
Normal				25	75.8%	9	45.0%	0.026*			
Dilated left ventricle				3	9.1%	9	45.0%				
Dilated left ventricle, MR				2	6.1%	1	5.0%				
Dilated left ventricle, TR				3	9.1%	1	5.0%				

Table (6): The North Star score among ambulant DMD patients (n=33)

	Unable		Modified Method		Normal	
	No.	%	No.	%	No.	%
Stand	4	12%	9	27%	20	61%
Walk	3	9%	25	76%	5	15%
Stand up from chair	3	9%	25	76%	5	15%
Stand on one leg-right	5	15%	12	36%	16	48%
Stand on one leg-left	5	15%	12	36%	16	48%
Climb box step-right	7	21%	21	64%	5	15%
Climb box step-left	7	21%	21	64%	5	15%
Descend box step-right	7	21%	21	64%	5	15%
Descend box step-left	7	21%	21	64%	5	15%
Gets to sitting	3	9%	25	76%	5	15%
Rise from floor	3	9%	25	76%	5	15%
Lifts hand	0	0%	10	30%	13	39%
Stand on heel	4	12%	12	36%	17	52%
Jump	9	27%	17	52%	7	21%
Hop right leg	10	30%	18	55%	5	15%
Hop left leg	10	30%	18	55%	5	15%
Run (10m)	10	30%	18	55%	5	15%
Range	5.00-34.00					
Mean± S. D	18.12±6.99					

Table (7): Skeletal abnormalities of the confirmed DMD patients

Skeletal examination	Groups				Total		χ^2	P-value
	Group A (n=33)		Group B (n=20)					
	N	%	N	%	N	%		
Normal	6	18.2%	2	10.0%	8	15.1%	31.78	0.001**
Lordosis	27	81.8%	4	20.0%	31	58.5%		
Scoliosis	0	0.0%	4	20.0%	4	7.5%		
Scoliosis & joints stiffness	0	0.0%	5	25.0%	5	9.4%		
Joints stiffness	0	0.0%	5	25.0%	5	9.4%		
Total	33	100.0%	20	100.0%	53	100.0%		

Table (8): Medications received by the studied patients, n=53

Received medication	Groups				Total		χ^2	P-value
	Group A (n=33)		Group B (n=20)					
	N	%	N	%	N	%		
Steroid Therapy								
Current	27	81.8%	6	30.0%	33	62.3%	14.23	0.001**
Previous	6	18.2%	14	70.0%	20	37.7%		
Regimen of current steroid use								
Interrupted	14	51.9%	6	100.0%	20	60.6%	4.77	0.029*
Continuous	13	48.1%	0	0.0%	13	39.4%		
Dietary supplement (L-Carnitine)								
Yes	30	90.9%	11	55.0%	41	77.4%	9.17	0.002**
No	3	9.1%	9	45.0%	12	22.6%		

Table (9): Relation between steroid therapy and BMI, IQ verbal, IQ total and North star score in the studied confirmed patients, n=53

Steroid therapy	Current (n=33)			Previous (n=20)			P-value
	Min	-	Max	Min	-	Max	
	Mean	±	S. D	Mean	±	S. D	
BMI (Kg/m2)	12.50	-	34.80	14.80	-	27.00	0.002*
	18.26	±	4.79	21.77	±	3.90	
IQ Verbal test	50.00	-	98.00	60.00	-	98.00	0.001*
	80.18	±	9.83	72.10	±	9.07	
IQ test	52.00	-	105.00	64.00	-	101.00	0.002*
	83.39	±	10.45	75.25	±	9.44	
North star score	Current (n=27)			Previous (n=6)			0.024*
	8.00	-	34.00	5.00	-	22.00	
	19.48	±	7.17	11.83	±	6.94	

Table (10): Correlation between Functional ability (North star score) and Age, BMI (Kg/m2), IQ Verbal test, and IQ test, n=53

	Functional ability (North star score)	
	r	P
Age	-0.017	0.924
BMI (Kg/m2)	-0.115	0.523
IQ Verbal test	0.977	0.001*
IQ test	0.963	0.001*