

Patient Name : **محمد حسن موسى بنات** Age : 41 Year(s) 10 Month(s) 6 Day(s)
File No : 201070367 Gender : Male
Visit No : MJL1116055 External. No :
Consultant : Sample Date : 03/12/2019 08:30:07

Laboratory Result	SI Units	Conventional Units
Fibrinogen, Plasma	3.3 gm/L	329 mg/dL
Normal Range :	2.0 - 4.0	200 - 400
Previous Results: MJL104399 17/12/2017	3.6	* 363
Performed at a Referral Lab		
Fasting Blood Glucose, Serum	5.33 mmol/L	96 mg/dL
Normal Range : Normal:	3.89 - 5.49	70 - 99
Impaired:	5.55 - < 6.94	100 - < 125
Diabetic:	> = 6.94	> = 125
Previous Results: MJL864611 17/06/2019	4.39	79
Previous Results: MJL799030 23/04/2019	5.49	99
Creatinine, Serum	62.8 umol/L	0.71 mg/dL
Normal Range : Male > 15 Years	61.9 - 106.1	0.70 - 1.20
Previous Results: MJL864611 17/06/2019	58.3	* 0.66
Previous Results: MJL799030 23/04/2019	61.0	* 0.69
Blood Urea Nitrogen (BUN), Serum		15.4 mg/dL
Normal Range: Adult		6.0 - 23.0
Children		5.0 - 18.0
Infant (< 1 Year)		4.0 - 19.0
Urea, Serum	5.51 mmol/L	33.0 mg/dL
Normal Range : Adult:	2.2 - 8.2	13 - 49
Children	1.8 - 6.5	11 - 39
Infant (< 1 Year)	1.8 - 6.8	9 - 41
Uric Acid, Serum	422 umol/L	7.1 mg/dL
Normal Range : Male	202 - 416	3.4 - 7.0
Previous Results: MJL864611 17/06/2019	357	6.0
Previous Results: MJL799030 23/04/2019	250	4.2

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Laboratory Result	SI Units	Conventional Units
Electrolytes, Serum level		
Sodium	140 mmol/L	
Normal Range :	136 - 145	
Potassium	4.7 mmol/L	
Normal Range :	3.5 - 5.1	
Chloride	101 mmol/L	
Normal Range :	98 - 107	
Cholesterol Total, Serum		
	6.32 mmol/L	244 mg/dL
Normal Range : Optimal	< 5.18	< 200
Borderline	5.18 - 6.22	200 - 240
High	> 6.22	> 240
Previous Results: MJL873630 23/06/2019	3.89	150
Previous Results: MJL864611 17/06/2019	4.31	166
Triglycerides, Serum		
	0.97 mmol/L	86 mg/dL
Normal Range : Optimal	< 1.70	< 150
Borderline	1.70 - 2.15	150 - 190
High	> 2.15	> 190
Previous Results: MJL873630 23/06/2019	0.86	76
Previous Results: MJL864611 17/06/2019	0.74	66
HDL Cholesterol, Serum		
	1.89 mmol/L	73 mg/dL
Normal Range : Optimal	> 1.55	> 60
Borderline	1.04 - 1.55	40 - 60
Low	< 1.04	< 40
Previous Results: MJL990992 08/09/2019	1.29	50
Previous Results: MJL873630 23/06/2019	1.25	48

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Laboratory Result	SI Units	Conventional Units
Non-HDL Cholesterol, Serum	4.43 mmol/L	171 mg/dL
Normal Range: Optimal	< 3.37	< 130

Comment: Correlate with LDL value and possible CVD risk factors.

Cholesterol / HDL Ratio	SI Units	Conventional Units
3.3 Ratio	3.3 Ratio	3.3 Ratio
Normal Range: Optimal	< 4.0	< 4.0
Borderline	4.0 - 5.0	4.0 - 5.0
High	> 5.0	> 5.0

Previous Results: MJL873630 23/06/2019 3.1 3.1
Previous Results: MJL864611 17/06/2019 3.3 3.3

LDL Cholesterol, Serum	SI Units	Conventional Units
3.94 mmol/L	3.94 mmol/L	152 mg/dL
Normal Range : Optimal	< 2.59	< 100
Borderline	2.59 - 3.34	100 - 129
High	3.37 - 4.12	130 - 159
High risk	> = 4.14	> = 160

Previous Results: MJL990992 08/09/2019 4.27 165
Previous Results: MJL873630 23/06/2019 2.23 86

Alanine Aminotransferase (ALT/GPT), Serum	SI Units	Conventional Units
0.99 ukat/L	0.99 ukat/L	59 U/L
Normal Range : Male	UP TO 0.68	UP TO 41
Previous Results: MJL864611 17/06/2019 0.34 20		
Previous Results: MJL799030 23/04/2019 0.57 34		

Aspartate Aminotransferase (AST/GOT), Serum	SI Units	Conventional Units
0.63 ukat/L	0.63 ukat/L	38 U/L
Normal Range : Male	UP TO 0.67	UP TO 40
Previous Results: MJL864611 17/06/2019 0.28 17		
Previous Results: MJL799030 23/04/2019 0.33 20		

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Laboratory Result	SI Units	Conventional Units
Gamma-Glutamyl Transferase (GGT), Serum	5.41 ukat/L	324 U/L
Normal Range : Male	0.13 - 1.02	8 - 61
Previous Results: MJL864611 17/06/2019	2.30	138
Previous Results: MJL799030 23/04/2019	4.40	263
Alkaline Phosphatase, Serum	1.89 ukat/L	113 U/L
Normal Range : Male > 19 Year	0.67 - 2.15	40 - 129
Previous Results: MJL864611 17/06/2019	1.83	110
Previous Results: MJL799030 23/04/2019	2.38	142
Bilirubin, Total, Serum	5.81 umol/L	0.34 mg/dL
Normal Range : Adults	UP TO 20.52	UP TO 1.2
Children	UP TO 17.1	UP TO 1.0
Previous Results: MJL864611 17/06/2019	7.87	0.46
Previous Results: MJL799030 23/04/2019	9.58	0.56
Bilirubin, Direct, Serum	3.59 umol/L	0.21 mg/dL
Normal Range :	< 3.42	< 0.20
Previous Results: MJL864611 17/06/2019	2.91	0.17
Previous Results: MJL799030 23/04/2019	4.45 *	0.26
Protein, Total, Serum	78 gm/L	7.8 g/dL
Normal Range : > 14 Year Adult	64.0 - 83.0	6.4 - 8.3
Previous Results: MJL864611 17/06/2019	74 *	7.4
Previous Results: MJL799030 23/04/2019	74 *	7.4
Albumin, Serum	52 gm/L	5.2 g/dL
Normal Range : > 14 Years Adult	35.0 - 52.0	3.5 - 5.2
Previous Results: MJL864611 17/06/2019	48 *	4.8
Previous Results: MJL799030 23/04/2019	50 *	5.0

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Globulin, Serum	26 gm/L	2.6 gm/dL
Normal Range :	20 - 35	2.0 - 3.5
Previous Results: MJL864611 17/06/2019	26	2.6
Previous Results: MJL799030 23/04/2019	24	2.4
Albumin / Globulin Ratio, Serum		2.00 Ratio
Normal Range :		1.1 - 2.2
Previous Results: MJL864611 17/06/2019		1.85
Previous Results: MJL799030 23/04/2019		2.08
Bicarbonate, Serum	28.60 mmol/L	Confirmed
Normal Range : Venous	22 - 29	
Iron, Serum	11.546 umol/L	65 ug/dL
Normal Range : Male > 18 Year	10.56 - 28.28	59.0 - 158.0
Unsaturated Iron Binding Capacity		292.2 ug/dL
Male		125 - 345
Female		135 - 392
Total Iron Binding Capacity Calculation (TIBC), Serum		357 ug/dL
Normal Range :		250 - 410

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Laboratory Result	SI Units	Conventional Units
Homocysteine, Serum	11.6 umol/L	
Normal Range : < 15 Year Folate Non Supplemented	< 10.0	
< 15 Year Folate Supplemented	< 8.0	
15 - 65 Year Folate Non Supplemented	< 15.0	
15 - 65 Year Folate Supplemented	< 12.0	
> 65 Year Folate Non Supplemented	< 20.0	
> 65 Year Folate Supplemented	< 16.0	
Previous Results: MJL864611 17/06/2019	13.7	
Previous Results: MJL799030 23/04/2019	11.4	
Lactate Dehydrogenase (LDH), Serum	2.4 ukat/L	141 U/L
Normal Range : Male	2.30 - 3.80	135 - 225
Female	2.30 - 3.60	135 - 214
Children	2.00 - 5.00	120 - 300
4 Day - 20 Day	3.80 - 10.00	225 - 600
Previous Results: MJL145244 18/01/2018	3.3	196
Iron Saturation		18.2 Ratio
Triiodothyronine (FT3), Free, Serum	3.79 pmol/L	2.47 pg/mL
Normal Range : Male 40 Years - > 69 Years	3.98 - 6.54	2.59 - 4.26
Previous Results: MJL601013 28/11/2018	4.41	* 2.87
Previous Results: MJL104399 17/12/2017	5.38	* 3.50
Thyroxine (FT4), Free, Serum	19.31 pmol/L	1.50 ng/dL
Normal Range : Male 40 Years - > 69 Years	12.48 - 21.24	0.97 - 1.65
Previous Results: MJL601013 28/11/2018	17.50	* 1.36
Previous Results: MJL104399 17/12/2017	18.92	* 1.47

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Laboratory Result	SI Units	Conventional Units
Thyroid Stimulating Hormone (TSH), Serum	1.920 mU/L	1.920 uU/ml
Normal Range : Adult > 20 Years	0.30 - 4.20	0.30 - 4.20
Previous Results: MJL864611 17/06/2019	1.670 *	1.670
Previous Results: MJL799030 23/04/2019	1.400 *	1.400
Thyroglobulin Antibodies, Serum		< 10 IU/ml
Normal Range Negative		< 115
Previous Results: MJL145244 18/01/2018		< 10
Thyroid Peroxidase Antibodies, Serum		< 9.00 IU/ml
Normal Range :		UP TO 34.0
Previous Results: MJL601013 28/11/2018		< 9.00
Previous Results: MJL145244 18/01/2018		1.82 *
Ferritin, Serum		113 ug/L
Normal Range : Male > 18 Year		30.0 - 400.0
Previous Results: MJL864611 17/06/2019		138
Previous Results: MJL799030 23/04/2019		133
Transferrin, Serum	3.04 gm/L	304 mg/dL
Normal Range :	2.0 - 3.6	200 - 360
Immunoglobulin G (IgG), Serum	13.52 gm/L	1352 mg/dL
Normal Range : > 19 Year Adult	7.00 - 16.00	700 - 1600
Immunoglobulin M (IgM), Serum	0.73 gm/L	73 mg/dL
Normal Range : > 19 Year Adult	0.40 - 2.30	40 - 230
Immunoglobulin A (IgA), Serum	2.42 gm/L	242 mg/dL
Normal Range : > 19 Year Adult	0.70 - 4.00	70 - 400

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Laboratory Result	SI Units	Conventional Units
Immunoglobulin E (IgE), Serum		23.40 IU/ml
Normal Range : Adult		UP TO 100
10 Years - 15 Years		UP TO 200
6 Year - 9 Year		UP TO 90
1 Year - 5 Years		UP TO 60
Infants		UP TO 15
Neonates		UP TO 1.5
Vitamin D (25-hydroxycholecalciferol), Serum	74.3 nmol/L	30 ng/mL
Normal Range : Vitamin D Deficiency	< 50.0	< 20.0
Vitamin D Insufficiency	50.0 - 72.5	20.0 - 29.0
Vitamin D Sufficiency	75.0 - 250.0	30.0 - 100.0
Potential Vitamin D Toxicity	> 250.0	> 100.0
Previous Results: MJL864611 17/06/2019	71.8	29
Previous Results: MJL799030 23/04/2019	69.3	28
C-Peptide, Serum		1.63 ng/mL
Normal Range :		1.1 - 4.4