



Collection Date: 11/02/2026
Review Date: 11/02/2026

Patient Name: الأستاذة/ شادية عثمان عبدالغفار
Patient No.: 48-139334
Accession No.: 1922602568
Age: 59Y

IMMUNOLOGY UNIT

Test Name	Result	Unit	Reference Interval
CRP Quantitative, Serum	4.9	mg/L	Less Than 5
Ferritin, Serum	19.4	ng/mL	11 - 306.8
CEA, Serum	6.3	ng/mL	Up to 5.0
CA 15-3, Serum	9.10	U/mL	Up to 23.5
CA 125, Serum	3.52	U/mL	Up to 35
Carbamazepin (Tegretol) Random	7.77	ug/mL	Therapeutic Level: 4 – 12 Toxic Level : > 12
Depakine (Valproic acid), Trough	23.10	ug/mL	Therapeutic Level : 50 – 100 Toxic Level : > 100
Comments :	The drug level depends on the dose, regular drug intake and the time of sampling related to last drug intake. The drug level can be affected by other medications and clinical conditions. CEA value must be interpreted in conjunction with clinical evaluation and other diagnostic procedures. Follow up is recommended.		



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HORMONE UNIT

Test Name	Result	Unit	Reference Interval
Free T4, Serum	0.71	ng/dL	0.54 - 1.24
TSH, Serum	1.261	μIU/mL	0.5 - 6.7
Rapid fluctuations in TSH level may occur due to circadian rhythm, transient changes, stress, non-thyroidal illness, or with some medications.			
FSH, Serum	62.30	mIU/mL	Follicular : 3.85-8.78 Mid cycle : 4.54-22.51 Luteal : 1.79-5.12 Menopause : 16.74-113.59
LH, Serum	22.71	mIU/mL	Follicular : 2.12-10.89 Midcycle : 19.18-103.03 Luteal : 1.2-12.86 Menopause : 10.87-58.64
25(OH) Vitamin D, Serum	33.2	ng/mL	Deficiency : Less than 20 Insufficiency : 21-29 Sufficiency : 30-100 Hypervitaminosis : More than 150
Pro BNP	30.8	pg/mL	Up to 125
<p>-In patients with acute symptoms: -Less than 300 pg/mL high probability of excluding acute heart failure. -Over 450 pg/mL high probability of heart failure in patients < 50 years. -Over 900 pg/mL high probability of heart failure in patients >50 years.</p>			



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HEMATOLOGY UNIT

Test Name	Result	Unit	Reference Interval
Prothrombin Time and Conc.			
Control	13.5	Seconds	
Patient Time	15.3	Seconds	
Concentration	83	%	70 - 140
INR	1.14		Less Than 1
Fibrinogen Level (Titre)			
Fibrinogen Level (Titre)	443	mg /dL	200 - 400
Erythrocyte Sedimentation Rate (ESR)			
First Hour :	30	mm	0 - 20
Reticulocyte Count	0.5	%	0.5 - 2.5



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A MEMBER OF ALFA MEDICAL GROUP

معمل الفا

16191



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HORMONE UNIT

HOMA Test

Test Name	Result	Unit	Reference Interval
Serum Insulin, Fasting	4.30	μ U/mL	3 - 25
Plasma Glucose, Fasting	86	mg/dL	70 - 100
HOMA 2- IR	0.56		Less Than 1.6
HOMA 2-%B	70.6	%	More Than 54.2
HOMA-B is used to evaluate islet function in patients who don't receive insulin therapy.			
HOMA 2-%S	180	%	
HOMA2-IR is an updated calculation of HOMA1-IR. It provides better prediction than HOMA1 for progression to diabetes. It calculates the B cell function (%B) and the insulin sensitivity (%S).			



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CHEMISTRY UNIT

Test Name	Result	Unit	Reference Interval
Glycated Haemoglobin (HbA1c), EDTA	5.1	%	< 5.7 Normal Range 5.7 - 6.4 Prediabetic ≥ 6.5 Diabetic
ALT (SGPT), Serum	13	U/L	Less Than 35
AST (SGOT), Serum	17	U/L	Less Than 35
Total Protein, Serum	7.6	g/dL	6.4 - 8.3
Albumin, Serum	3.9	g/ dL	3.5 - 5.2
Bilirubin (Total), Serum	0.32	mg/dL	0.3 - 1.2
Bilirubin (Direct), Serum	0.07	mg /dL	0 - 0.2
Alkaline Phosphatase, Serum	99	U/L	30 - 120
Gamma GT, Serum	29	U/L	Up to 38
Blood Urea Nitrogen	13	mg /dL	8 - 20
Creatinine, Serum	0.57	mg /dL	0.63 - 1.16
Estimated Glomerular Filtration Rate(eGFR)	>90	ml/min/1.73 m ²	≥ 90 Normal GFR 60 - 89 Mild decreased 30 - 59 Mod.decreased 15 - 29 Sev. decreased < 15 kidney failure
Uric Acid, Serum	3.1	mg/dL.	2.6 - 6
Calcium (Total), Serum	9.3	mg /dL	8.8 - 10.6
Calcium (Ionized)Ca ⁺⁺ , Serum	4.8	mg/dL	4.6 - 5.3
Phosphorus, Serum	4.1	mg/dL	2.4 - 4.4
Magnesium, Serum	1.7	mg/dL	1.9 - 2.5
Potassium (K), Serum	4.5	mmol/L	3.5 - 5.1
Sodium (Na), Serum	137	mmol/L	136 - 146

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Chloride, Serum	100	mmol/L	98 - 107
Iron, Serum	92	µg /dL	50 - 170
Food intake or recent iron supplementation cause increase in serum iron levels.			
TIBC, Serum	277.0	µg /dL	250 - 425
Transferrin Saturation	33	%	20 - 50



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CHEMISTRY UNIT

Lipid Profile

Test Name	Result	Unit	Reference Interval
Cholesterol, Serum	191	mg /dL	Desirable: < 200 High Risk: ≥ 240
HDL-Cholesterol, Serum	63	mg/dL	Low Risk : ≥ 60 High Risk: < 40
LDL-Cholestrol, Serum	101	mg/dL	< 100 -According to the 2019 European Society of Cardiology / European Atherosclerosis Society Guidelines for Dyslipidemia management; Therapeutic regimens target goals for LDL-C are < 55,70 & 100 for very high , high & moderate risk patients.
Non-HDL-C, Serum	129	mg/dL	optimal: < 130 -Non HDL-C is an estimation of atherogenic lipoproteins (VLDL, VLDL remnants, IDL, LDL, Lpa) and according to recent guidelines is a better risk indicator for CVD
Triglycerides, Serum	139	mg/dL	Normal: < 150 Borderline: 150 - 199 High : ≥ 200
VLDL Cholesterol, Serum	28	mg/dL.	< 30
T.Cholesterol / HDL Cholesterol	3.03		< 4.44
LDL/HDL Cholesterol	1.60		< 3.22



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HEMATOLOGY UNIT

Complete Blood Picture (CBC)

Test Name	Result	Unit	Reference Interval
Haemoglobin	13.90	g/dL	12 - 15
Hematocrit	41.0	%	36 - 46
Red cell count	4.86	$\times 10^6 / \mu\text{L}$	3.8 - 4.8
MCV	84.4	fL	83 - 101
MCH	28.6	pg	27 - 32
MCHC	33.9	g/dL	31.5 - 34.5
RDW	13.2	%	11.6 - 14
Platelet Count	169	$\times 10^3 / \mu\text{L}$	150 - 410
T.L.C	2.8	$\times 10^3 / \mu\text{L}$	4 - 10

Differential Count	Percent Values		Absolute Values	
Basophils	1	% 0 - 2	0.0	$\times 10^3 / \mu\text{L}$ 0.02 - 0.1
Eosinophils	1	% 1 - 6	0.0	$\times 10^3 / \mu\text{L}$ 0.02 - 0.5
Stab	0	% 0 - 7	0.0	$\times 10^3 / \mu\text{L}$
Segmented	26	% 40 - 80	0.7	$\times 10^3 / \mu\text{L}$ 2 - 7
Lymphocytes	60	% 20 - 40	1.7	$\times 10^3 / \mu\text{L}$ 1 - 3
Monocytes	12	% 2 - 10	0.3	$\times 10^3 / \mu\text{L}$ 0.2 - 1
MPV	10.5	fL 8 - 12		

Comments : Normal Hb. RBCs show mild erythrocytosis.
Platelets are adequate.
Mild leucopenia.
Moderate absolute neutropenia.



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