

LABORATORY REPORT

Name	: MAHNAZ SEYED MOHSEN DARBANDI KERMANS SHAH	File. No.	: AAL02-359171
DOB/Gender	: 23-10-1971 (52 Yrs 23 Days/Female)	Referral Doctor	: Dr. Sajid Sanaullah Khan
Lab No.	: 22233190391	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 15-11-2023 21:53:37	Clinic File No	: 41465
Insurance	: No		

HAEMATOLOGY & COAGULATION

Test Name	Result	Units	Ref. Range	Method
<u>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</u>				
RBC	4.89 ^H	10 ¹² /L	3.80 - 4.80	Hydrodynamic focusing (DC Detection)
Haemoglobin	13.8	g/dl	12.0 - 15.0	Photometry-SLS
HCT	41.6	%	36.0 - 46.0	Hydrodynamic focusing
MCV	85.1	fl	83.0 - 101.0	Calculation
MCH	28.2	pg	27-32	Calculation
MCHC	33.2	g/dL	31.5 - 34.5	Calculation
Platelet Count	648 ^H	10 ³ /uL	150-400	Hydrodynamic Focusing(DCD)
WBC	8.42	10 ³ /uL	4.00 - 10.00	Flow Cytometry
<u>DIFFERENTIAL COUNT (%)</u>				
Neutrophils	60.9	%	40.0 - 80.0	Flow Cytometry
Lymphocytes	27.2	%	20.0 - 40.0	Flow Cytometry
Monocytes	5.6	%	2-10	Flow Cytometry
Eosinophils	5.2	%	1 - 6	Flow Cytometry
Basophils	1.1	%	<1-2	Flow Cytometry
Band Forms	0.0	%	< 6	Flow Cytometry
<u>DIFFERENTIAL COUNT (ABSOLUTE)</u>				
Neutrophils (Absolute)	5.13	10 ³ /uL	2.00 - 7.00	Calculation
Lymphocytes (Absolute)	2.29	10 ³ /uL	1.00 - 3.00	Calculation
Monocytes (Absolute)	0.47	10 ³ /uL	0.20 - 1.00	Calculation
Eosinophils (Absolute)	0.44	10 ³ /uL	0.02 - 0.50	Calculation
Basophils (Absolute)	0.09	10 ³ /uL	0.02 - 0.10	Calculation
Band Forms (Absolute)	0.00	10 ³ /uL	< 0.66	Calculation

ERYTHROCYTE SEDIMENTATION RATE (ESR)

These tests are accredited under ISO 15189:2012 unless specified by (*)

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Test results pertains only the sample tested and to be correlated with clinical history.

Reference range related to Age/Gender.

Dr. Solmaz Siddiqui
Laboratory Director
DHA/LS/248469

H/L Collected On : 15-11-2023 19:00:00
Authenticated On : 15-11-2023 23:57:56
Received On : 15-11-2023 21:58:00
Released On : 16-11-2023 00:05:48



Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430

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Lab No. : **22233190391** Referral Clinic : **Peshawar(Irham Medical Center)**
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Test Name	Result	Units	Ref. Range	Method
ESR (whole blood)	11	mmhr	up to 15	Modified Westergren

Sample Type : EDTA WB

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CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
HbA1c (Glycosylated Hb)	5.84^H	%	Normal: =< 5.6 High risk/prediabetes: 5.7-6.4* Diabetes: =>6.5	TINIA(turbidimetric inhibition immunoassay)

In the absence of unequivocal hyperglycemia, result should be confirmed by repeat testing. Diabetic patients with HbA1c less than 7% meets the therapeutic goals of the American Diabetes Association (ADA 2010). Please note Reference Range Reviewed w.ef 15/10/23 .

Sample Type : EDTA WB

Glucose - Fasting	70.89	mg/dL	70 - 100	Hexokinase/G-6-PDH
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According to American Diabetes Association 2010,fasting plasma glucose (FPG) levels of (100-125 mg/dl) are in the increased risk category for diabetes.

Sample Type : Fluoride Plasma

CRP - quant (serum)	1.71	mg/L	< 5.0	Immunoturbidimetric
**HDL Cholesterol	47.20	mg/dL	< 40	Homogeneous enzymatic-CHER & CHOD

Please note Reference Range Reviewed w.ef 15/10/23

Iron (serum)	94.4	ug/dL	50.0 - 170.0	Ferene
LDL Cholesterol	83.5	mg/dL	Optimal: < 100 Near Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: >= 190	Liquid Selective detergent

**Uric Acid	5.83^H	mg/dL	2.40 - 5.70	Uricase
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Please note Reference Range Reviewed w.ef 15/10/23

**Zinc	88.4	ug/dL	70 - 114	Photometric
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Please note Reference Range Reviewed w.ef 15/10/23

LDH (serum)	196.0	U/L	125.0 - 220.0	Lactate to Pyruvate (NADH)
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Test Name	Result	Units	Ref. Range	Method
**Vitamin D, 25-OH (Total)	39.90	ng/mL	Deficiency: < 20 Insufficiency: 20 - 30 Sufficiency: 30 - 50 Optimal: 50 - 100 Excess: >100 Toxicity: >150	ECLIA

Conversion Formula: (Concentration in ng/mL) x (2.5) = nmol/L. Vitamin D3 and Vitamin D2 are the most abundant forms of Vitamin D in the body. Vitamin D3 is synthesized in the skin from 7-dehydrocholesterol in response to sunlight. The best nutrition sources of D3 are oily fish primary salmon and mackerel. Vitamin D2' nutrition sources are from some vegetables, yeast and fungi. The vegetarian diet is abundant in Vitamin D2.

Vitamin D (D3, D2 and metabolites) is converted to 25-hydroxyvitamin D in the liver. The measurement of 25-OH vitamin D concentration in the serum or plasma is the best indicator of vitamin D nutritional status.

Vitamin D deficiency is commonly treated with vitamin D2 or D3 medications. Fortified foods and nutrition supplements may contain either form. Please note

Reference Range Reviewed w.ef 15/10/23.

Remarks:

Test result to be interpreted in the light of clinical history and to be investigated further if necessary.

Sample Type : Serum

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HORMONES/ENDOCRINE/TUMOR MARKERS

Test Name	Result	Units	Ref. Range	Method
**TSH (Thyroid Stimulating Hormone)	5.6800^H	μIU/mL	0.27-4.20 Pregnancy: 1st Trimester: 0.33 - 4.59 2nd Trimester: 0.35 - 4.10 3rd Trimester: 0.21 - 3.15	ECLIA

Conversion Formula: (Concentration in IU/ mL) x (1.0) = mIU/L. The determination of TSH serves as the initial test in thyroid diagnostics. Even very slight changes in the concentrations of the free thyroid hormones bring about much greater opposite changes in the TSH level. Accordingly, TSH is a very sensitive and specific parameter for assessing thyroid function and is particularly suitable for early detection or exclusion of disorders in the central regulating circuit between the hypothalamus, pituitary and thyroid. Please note Reference Range Reviewed w.ef 15/10/23 .

Total T4 (serum)	7.11	ug/dL	4.87 - 11.72	CMIA
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Remarks:

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Sample Type : Serum

----- End Of Report -----

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