

LABORATORY REPORT

Name	: JAWARIA KHURRAM KHURRAM JAMIL	File. No.	: AAL02-292928
DOB/Gender	: 13-10-1985 (37 Yrs 5 Month 8 Days/Female)	Referral Doctor	: Dr. Enomen Goodluck Ekata
Lab No.	: 22230790241	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 20-03-2023 14:33	Clinic File No	: 38199
Insurance	: No		

HAEMATOLOGY & COAGULATION

Test Name	Result	Units	Ref. Range	Method
<u>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</u>				
RBC	3.95	10 ¹² /L	3.80 - 4.80	Hydrodynamic focusing (DC Detection)
Haemoglobin	9.2 ^L	g/dl	12.0 - 15.0	Photometry-SLS
HCT	29.8 ^L	%	36.0 - 46.0	Hydrodynamic focusing
MCV	75.4 ^L	fl	83.0 - 101.0	Calculation
MCH	23.3 ^L	pg	27-32	Calculation
MCHC	30.9 ^L	g/dL	31.5 - 34.5	Calculation
Platelet Count	318	10 ³ /uL	150-400	Hydrodynamic Focusing(DCD)
WBC	5.75	10 ³ /uL	4.00 - 10.00	Flow Cytometry
<u>DIFFERENTIAL COUNT (%)</u>				
Neutrophils	63.5	%	40.0 - 80.0	Flow Cytometry
Lymphocytes	28.7	%	20.0 - 40.0	Flow Cytometry
Monocytes	5.9	%	2-10	Flow Cytometry
Eosinophils	1.4	%	1 - 6	Flow Cytometry
Basophils	0.5	%	<1-2	Flow Cytometry
Band Forms	0.0	%	< 6	Flow Cytometry
<u>DIFFERENTIAL COUNT (ABSOLUTE)</u>				
Neutrophils (Absolute)	3.65	10 ³ /uL	2.00 - 7.00	Calculation
Lymphocytes (Absolute)	1.65	10 ³ /uL	1.00 - 3.00	Calculation
Monocytes (Absolute)	0.34	10 ³ /uL	0.20 - 1.00	Calculation
Eosinophils (Absolute)	0.08	10 ³ /uL	0.02 - 0.50	Calculation
Basophils (Absolute)	0.03	10 ³ /uL	0.02 - 0.10	Calculation
Band Forms (Absolute)	0.00	10 ³ /uL	< 0.66	Calculation

Remarks:

Recommended to do peripheral smear, iron studies and thalassemia screening.
Test result to be interpreted in the light of clinical history and to be investigated further if necessary.

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Reference range related to Age/Gender.

Dr. Solmaz Siddiqui
Laboratory Director
DHA/LS/248469

H/L Collected On : 20-03-2023 13:00:00
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Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430

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Test Name	Result	Units	Ref. Range	Method
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Sample Type : EDTA WB

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CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
Glucose - Fasting	74.37	mg/dL	70 - 100	Hexokinase/G-6-PDH

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)	0.71	mg/L	< 5.0	Immunoturbidimetric
Iron (serum)	24.3 ^L	ug/dL	50.0 - 170.0	Ferene
25-OH Vitamin D Total	14.30 ^L	ng/mL	Deficiency: < 10 Insufficiency: 10-30 Sufficiency: 30-50 Optimal: 50-100 Excess: >100 Toxicity: >150	CMIA

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

Vitamin B12 (serum)	222.0	pg/mL	187.0 - 883.0	CMIA
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The reference range of Vitamin B12 given is that of kit insert.

Recommendation: According to latest guideline normal B12 level >400 pg/ml

Remarks:

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Sample Type : Serum

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HORMONES/ENDOCRINE/TUMOR MARKERS

Test Name	Result	Units	Ref. Range	Method
TSH (serum)	0.6345	μIU/mL	0.3500 - 4.9400 Pregnancy First Trimester : 0.1 - 2.5 Second Trimester : 0.2 - 3.0 Third Trimester : 0.3 - 3.0	CMIA

Sample Type : Serum

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KIDNEY & LIVER FUNCTION TEST CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
AST / GOT - (serum)	12.7	U/L	5.0 - 34.0	NADH w/o P5P
ALT / GPT (serum)	12.0	U/L	<= 55	NADH w/o P5P
ALP (serum)	50.0	U/L	46 - 122	Para-nitrophenyl Phosphate

Kindly note that the reference range is effective from 17-01-2023.

Gamma-GT (serum)	11.9	U/L	<38	L-G-glutamyl-3-carboxy-4-nitroanilide Substrat
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Kindly note new reference range for GGT effective from 17/6/2022

Bilirubin - Total (serum)	0.64	mg/dL	0.20 - 1.20	Diazo Reaction
Bilirubin - Direct (serum)	0.25	mg/dL	< 0.50	Diazo Reaction
*Bilirubin - Indirect	0.39	mg/dL	0.10 - 1.00	Calculation
Protein- Total (serum)	7.04	g/dL	6.40 - 8.30	Biuret
Albumin (serum)	4.10	g/dL	3.50 - 5.00	Bromocresol Purple

Kindly note new reference range for Albumin reference range updated as on 18th December 2021.

Globulin (serum)	2.94	g/dL	2.50 - 3.50	Calculation
Creatinine (serum)	0.63	mg/dL	0.5 - 1.0	Alkaline Picrate

Kindly note that the reference range is effective from 17-01-2023.

Urea (serum)	22.86	mg/dL	12.84 - 42.80	Urease
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Kindly note new reference range for Urea effective from 31/1/2022

Uric Acid (serum)	3.10	mg/dL	2.5 - 6.2	Uricase
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Kindly note new reference range for Uric acid effective from 20/1/2022

Calcium (serum)	8.8	mg/dL	8.4 - 10.2	Arsenazo III
Phosphorus (serum)	4.1	mg/dL	2.3 - 4.7	Phosphomolybdate
Sodium (serum)	145.0	mmol/L	135.0 - 145.0	ISE
Potassium (serum)	4.4	mmol/L	3.8 - 5.5	ISE

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Test Name	Result	Units	Ref. Range	Method
Chloride (serum)	107.0	mmol/L	98.0 - 107.0	ISE
Sample Type : Serum				

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

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