

LABORATORY REPORT

Name	: SAHAR MOHAMMED YOUNUS ALAHMED	File. No.	: AAL02-309122
DOB/Gender	: 31-05-1971 (51 Yrs 11 Month 16 Days/Female)	Referral Doctor	: Self
Lab No.	: 22231350156	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 15-05-2023 13:21	Clinic File No	: 40116
Insurance	: No		

HAEMATOLOGY & COAGULATION

Test Name	Result	Units	Ref. Range	Method
<u>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</u>				
RBC	4.88 ^H	10 ¹² /L	3.80 - 4.80	Hydrodynamic focusing (DC Detection)
Haemoglobin	7.3 ^L	g/dl	12.0 - 15.0	Photometry-SLS
HCT	26.8 ^L	%	36.0 - 46.0	Hydrodynamic focusing
MCV	54.9 ^L	fl	83.0 - 101.0	Calculation
MCH	15.0 ^L	pg	27-32	Calculation
MCHC	27.2 ^L	g/dL	31.5 - 34.5	Calculation
Platelet Count	351	10 ³ /uL	150-400	Hydrodynamic Focusing(DCD)
WBC	6.10	10 ³ /uL	4.00 - 10.00	Flow Cytometry
<u>DIFFERENTIAL COUNT (%)</u>				
Neutrophils	50.1	%	40.0 - 80.0	Flow Cytometry
Lymphocytes	40.8 ^H	%	20.0 - 40.0	Flow Cytometry
Monocytes	6.4	%	2-10	Flow Cytometry
Eosinophils	1.6	%	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)	3.05	10 ³ /uL	2.00 - 7.00	Calculation
Lymphocytes (Absolute)	2.49	10 ³ /uL	1.00 - 3.00	Calculation
Monocytes (Absolute)	0.39	10 ³ /uL	0.20 - 1.00	Calculation
Eosinophils (Absolute)	0.10	10 ³ /uL	0.02 - 0.50	Calculation
Basophils (Absolute)	0.07	10 ³ /uL	0.02 - 0.10	Calculation
Band Forms (Absolute)	0.00	10 ³ /uL	< 0.66	Calculation

Remarks:

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Reference range related to Age/Gender.

Dr. Solmaz Siddiqui
Laboratory Director
DHA/LS/248469

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Wasik Hasan Tisekar
Laboratory Technician
DHA-P-0039673

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Test Name	Result	Units	Ref. Range	Method
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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.

Sample Type : EDTA WB

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CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
HbA1c (whole blood)	5.1	%	Normal: =< 5.6 High risk/prediabetes: 5.7-6.4* Diabetes: => 6.5**	Enzymatic

* Requires screening by glucose criteria.

** Confirmed by repeating the test on a different day.

Kindly note new reference range for HbA1c effective from 7/6/2020.

<i>Sample Type : EDTA WB</i>				
Glucose(RBS)	82.6	mg/dL	Fasting: 70 - 100 1 hr post eating: 70 - 187 2 hrs post eating: 70 - 134	Hexokinase/G-6-PDH
<i>Sample Type : Fluoride Plasma</i>				
CRP - quant (serum)	0.53	mg/L	< 5.0	Immunoturbidimetric
Iron (serum)	13.3 ^L	ug/dL	50.0 - 170.0	Ferene
25-OH Vitamin D Total	15.70 ^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

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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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Insurance : **No**

MICROBIOLOGY/BACTERIOLOGY/BODY FLUIDS

Test Name	Result	Units	Ref. Range	Method
<u>URINE ROUTINE (URINALYSIS)</u>				
<u>PHYSICAL EXAMINATION</u>				
Color	Yellow		Yellow	Light Scatter
Appearance	Turbid		Clear	Light Scatter
Specific Gravity	1.025		1.005 - 1.030	Refractrometry
PH	5.00		4.6 - 8.0	pH.I/Reflectance
Glucose	Negative		Negative	Enz.Rn/Reflect
Ketone	Negative		Negative	Legal's method
Protein	Trace		Negative	Dye Binding
Blood	Negative		Negative	Peroxidase Activity/Reflectance
Bilirubin	Negative		Negative	Acidified Diazo Coupling
Urobilinogen	2.0 mg/dL	mg/dL	Normal 0.2 - 1.0	Buffered Diazo Coupling
Nitrite	Negative		Negative	Mod. Gries Rn
Leukocytes.	Negative		Negative	Enz.Rn/Reflect
<u>MICROSCOPIC EXAMINATION</u>				
Pus Cells	1 - 2	/HPF	1 - 4	F.D.I/Microscopy
RBC's	0 - 1	/HPF	0 - 2	F.D.I/Microscopy
Epithelial cells	11 - 20	/HPF	1 - 4	F.D.I/Microscopy
Bacteria	Absent	/HPF	Absent	F.D.I/Microscopy
Yeast cells	Absent	/HPF	Absent	F.D.I/Microscopy
Trichomonas Vaginalis	Absent	/HPF	Absent	F.D.I/Microscopy
Mucus Threads	+++	/HPF	Absent	F.D.I/Microscopy
Crystals	Absent	/HPF	Absent	F.D.I/Microscopy
Casts	Absent	/LPF	Absent	F.D.I/Microscopy

Bilirubin and Urobilinogen when exposed to sunlight leads to artificially low results, hence recommended to collect urine in dark container for analyzing Urine

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Test Name	Result	Units	Ref. Range	Method
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Bilirubin and Urobilinogen if clinically indicated.

Kindly note the new methodology is effective from 31-10-2022.

Remarks:

Test was rechecked. Recommended to repeat test with new sample for urobilinogen confirmation.

Sample Type : Mid-stream Urine

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**LIPID PROFILE I
CLINICAL BIOCHEMISTRY**

Test Name	Result	Units	Ref. Range	Method
Cholesterol (serum)	166.0	mg/dL	Desirable: < 200 Border High: 200 - 239 High: >= 240	Enzymatic
Triglycerides (serum)	52.0	mg/dL	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: >= 500	Glycerol Phosphate Oxidase
HDL Cholesterol	62.7	mg/dL	> 40.0	Accelerator Selective Detergent
LDL Cholesterol	91.5	mg/dL	Optimal: < 100 Near Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: >= 190	Liquid Selective detergent
*VLDL	11.8	mg/dL	5.0 - 30.0	Calculation
*Cholesterol / HDL	2.6	Ratio	Desirable: < 4.5 Borderline: 4.5 - 6 Undesirable: > 6	Calculation

Sample Type : Serum

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**KIDNEY & LIVER FUNCTION TEST
CLINICAL BIOCHEMISTRY**

Test Name	Result	Units	Ref. Range	Method
AST / GOT - (serum)	11.2	U/L	5.0 - 34.0	NADH w/o P5P
ALT / GPT (serum)	6.5	U/L	<= 55	NADH w/o P5P
ALP (serum)	51.0	U/L	46 - 122	Para-nitrophenyl Phosphate

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

Gamma-GT (serum)	8.6	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)	0.52	mg/dL	0.20 - 1.20	Diazo Reaction
Bilirubin - Direct (serum)	0.23	mg/dL	< 0.50	Diazo Reaction
*Bilirubin - Indirect	0.29	mg/dL	0.10 - 1.00	Calculation
Protein- Total (serum)	6.83	g/dL	6.40 - 8.30	Biuret
Albumin (serum)	3.83	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)	3.00	g/dL	2.50 - 3.50	Calculation
Creatinine (serum)	0.63	mg/dL	0.5 - 1.1	Alkaline Picrate

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

Urea (serum)	26.86	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)	3.61	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)	8.7	mg/dL	8.4 - 10.2	Arsenazo III
Phosphorus (serum)	3.9	mg/dL	2.3 - 4.7	Phosphomolybdate
Sodium (serum)	142.0	mmol/L	135.0 - 145.0	ISE
Potassium (serum)	4.8	mmol/L	3.8 - 5.5	ISE

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Test Name	Result	Units	Ref. Range	Method
Chloride (serum)	106.0	mmol/L	98.0 - 107.0	ISE
Sample Type : Serum				

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THYROID PROFILE II
HORMONES/ENDOCRINE/TUMOR MARKERS

Test Name	Result	Units	Ref. Range	Method
Total T3 (serum)	71.8	ng/dL	35.0 - 193.0	CMIA

Kindly note new reference range for Total T3 effective from 06/03/2021

Total T4 (serum)	6.31	ug/dL	4.87 - 11.72	CMIA
TSH (serum)	1.5682	μIU/mL	0.3500 - 4.9400	CMIA
			Pregnancy	
			First Trimester : 0.1 - 2.5	
			Second Trimester : 0.2 - 3.0	
			Third Trimester : 0.3 - 3.0	

Sample Type : Serum

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