

LABORATORY REPORT

Name	: TOFAZZAL HOSSAIN NURUL ISLAM	File. No.	: AAL02-359010
DOB/Gender	: 02-03-1984 (39 Yrs 8 Month 13 Days/Male)	Referral Doctor	: Dr. Sajid Sanaullah Khan
Lab No.	: 22233190105	Referral Clinic	: Peshawar(Irham Medical Center)
Request Date	: 15-11-2023 13:10	Clinic File No	: 26721
Insurance	: NAS ADMINISTRATION SERVICES LTD		

HAEMATOLOGY & COAGULATION

Test Name	Result	Units	Ref. Range	Method
<u>COMPLETE BLOOD COUNT (CBC) WITH DIFFERENTIAL</u>				
RBC	5.48	10 ¹² /L	4.50 - 5.50	Hydrodynamic focusing (DC Detection)
Haemoglobin	15.5	g/dl	13.0 - 17.0	Photometry-SLS
HCT	45.5	%	40.0 - 50.0	Hydrodynamic focusing
MCV	83.0	fl	83.0 - 101.0	Calculation
MCH	28.3	pg	27-32	Calculation
MCHC	34.1	g/dL	31.5 - 34.5	Calculation
Platelet Count	361	10 ³ /uL	150 - 400	Hydrodynamic Focusing(DCD)
WBC	7.33	10 ³ /uL	4.00 - 10.00	Flow Cytometry
<u>DIFFERENTIAL COUNT (%)</u>				
Neutrophils	36.8 ^L	%	40.0 - 80.0	Flow Cytometry
Lymphocytes	52.5 ^H	%	20.0 - 40.0	Flow Cytometry
Monocytes	7.2	%	2.0-10.0	Flow Cytometry
Eosinophils	3.1	%	1 - 6	Flow Cytometry
Basophils	0.4	%	<1-2	Flow Cytometry
Band Forms	0.0	%	< 6	Flow Cytometry
<u>DIFFERENTIAL COUNT (ABSOLUTE)</u>				
Neutrophils (Absolute)	2.69	10 ³ /uL	2.00 - 7.00	Calculation
Lymphocytes (Absolute)	3.85 ^H	10 ³ /uL	1.00 - 3.00	Calculation
Monocytes (Absolute)	0.53	10 ³ /uL	0.20 - 1.00	Calculation
Eosinophils (Absolute)	0.23	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:

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 : 15-11-2023 12:53:00
Authenticated On : 15-11-2023 17:04:17
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Received On : 15-11-2023 13:12:00
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Padmapriya Kumaresan
Sr. Technician
DHA/LS2992011/243822

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Test Name	Result	Units	Ref. Range	Method
<u>ERYTHROCYTE SEDIMENTATION RATE (ESR)</u>				
ESR (whole blood)	6	mmhr	up to 10	Modified Westergren

Sample Type : EDTA WB

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CLINICAL BIOCHEMISTRY

Test Name	Result	Units	Ref. Range	Method
HbA1c (Glycosylated Hb)	7.17^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	131.27^H	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.

Remarks:

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Sample Type : Fluoride Plasma

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HORMONES/ENDOCRINE/TUMOR MARKERS

Test Name	Result	Units	Ref. Range	Method
Total T4 (serum)	8.58	ug/dL	4.87 - 11.72	CMIA
<i>Sample Type : Serum</i>				

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Dr. Solmaz Siddiqui
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Esmeralda Obenita
Lab Incharge
DHA/LS/2992011/ 241430

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Test Name	Result	Units	Ref. Range	Method
**TSH (Thyroid Stimulating Hormone)	2.8600	μIU/mL	0.270 - 4.20	ECLIA
<i>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 .</i>				
Total T3 (serum)	154.5	ng/dL	35.0 - 193.0	CMIA

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

Sample Type : Serum

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**LIPID PROFILE I
CLINICAL BIOCHEMISTRY**

Test Name	Result	Units	Ref. Range	Method
Cholesterol (serum)	187.7	mg/dL	Desirable: < 200 Border High: 200 - 239 High: >= 240	Enzymatic
*Triglycerides (serum)	193.0^H	mg/dL	Normal: < 150 Borderline High: 150 - 199 High: 200 - 499 Very High: >= 500	Glycerol Phosphate Oxidase
Please note Reference Range Reviewed w.ef 15/10/23				
**HDL Cholesterol	47.40	mg/dL	Major Risk: < 40	Homogeneous enzymatic-CHER & CHOD
Please note Reference Range Reviewed w.ef 15/10/23				
LDL Cholesterol	122.5	mg/dL	Optimal: < 100 Near Optimal: 100 - 129 Borderline High: 130 - 159 High: 160 - 189 Very High: >= 190	Liquid Selective detergent
*VLDL	17.8	mg/dL	5.0 - 30.0	Calculation
*Cholesterol / HDL	4.0	Ratio	Desirable: < 4.5 Borderline: 4.5 - 6 Undesirable: > 6	Calculation

Remarks:

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Sample Type : Serum

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

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