


LABORATORY REPORT

PATIENT INFORMATION	REFERRED BY	SPECIMEN INFORMATION	
MR PRAKASH RITURAJ S.O CHANDER PRAKASH .	DR. GENERAL MEDICAL OFFICER	SAMPLE TYPE	: Whole Blood - EDTA
AGE : 37Y 3M 12D	LAB MR# : AMCT00018195	LAB ORDER NO	: VMCT23013476
GENDER : Male	HMIS MR# : AM-2-74754	COLLECTED ON	: 25/Feb/2023 17:34
PRIORITY : Routine	Ward / Room/ Bed No. : - - - - -	RECEIVED ON	: 25/Feb/2023 18:22
		REPORT STATUS	: Final Report
		APPROVED ON	: 25/Feb/2023 18:39



HAEMATOLOGY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediawheel Active Check				

Complete Blood Counts

(Automated Hematology Analyzer & Microscopy)

Total Leukocyte Count	5.9		10 ³ /μl	4.0 - 11.0
RBC Count	4.7		10 ⁶ /μL	4.5 - 5.5
Hemoglobin	14.7		g/dL	13.0 - 17.0
Hematocrit	43.6		%	40 - 50
MCV(Mean Corpuscular Volume)	92.2		fL	83 - 101
MCH(Mean Corpuscular Hemoglobin)	31.0		pg	27 - 32
MCHC(Mean Corpuscular Hemoglobin Concentration)	33.7		g/dL	31.5 - 34.5
RDW	13.4		%	11.6 - 14
Platelet Count	173		10 ³ /μl	150 - 410
MPV	12.0	H	fL	7.5 - 11.5

Differential Counts % (VCSN)

Neutrophils	52.0		%	40-80%
Lymphocytes	36.0		%	20-40%
Monocytes	8.0		%	2-10%
Eosinophils	4.0		%	1-6%
Basophils	0.0		%	0-1%

Differential Counts, Absolute

Absolute Neutrophil Count	3.07		10 ³ /μl	2.0-7.0
Absolute Lymphocyte Count	2.12		10 ³ /μl	1.0-3.0
Absolute Monocyte Count	0.47		10 ³ /μl	0.2 - 1.0
Absolute Eosinophil Count (AEC)	0.24		10 ³ /μl	0.02-0.5
Absolute Basophil Count	0.00		10 ³ /μl	0.02 - 0.1

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AGE : 37Y 3M 12D
GENDER : Male
PRIORITY : Routine



REFERRED BY

DR. GENERAL MEDICAL OFFICER

LAB MR# : AMCT00018195

HMIS MR# : AM-2-74754

Ward / Room/ Bed No.

SPECIMEN INFORMATION

SAMPLE TYPE : Urine
LAB ORDER NO : VMCT23013476
COLLECTED ON : 25/Feb/2023 17:34
RECEIVED ON : 25/Feb/2023 19:32
REPORT STATUS : Final Report
APPROVED ON : 25/Feb/2023 19:39



CLINICAL PATHOLOGY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
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Mediwheel Active Check

Urine Examination - Routine & Microscopy (CUE)

PHYSICAL EXAMINATION:

Volume	15.00		mL	
Colour	PALE YELLOW			Pale
Appearance	Clear			Clear

CHEMICAL EXAMINATION:

pH (Dip stick)	7.00			4.8 - 7.4
Specific Gravity (Dip Stick(Bromothymol blue))	1.005	L		1.010 - 1.022
Protein (Dip Stick/ Sulfosalicylic acid)	NEGATIVE			Negative
Glucose (Dip Stick /Benedicts test)	NEGATIVE			Negative
Ketones (Dip stick)	NEGATIVE			Negative
Urobilinogen (Dip Stick / Ehrlich reaction)	NEGATIVE			Normal
Nitrite (Dip Stick / (Griess test))	NEGATIVE			Negative
Bilirubin (Dipstick/diazo)	NEGATIVE			Negative
Blood (Dip Stick (Peroxidase))	NEGATIVE			Negative

MICROSCOPIC EXAMINATION:

Pus Cells	1 - 2		/HPF	0 - 10
Epithelial Cells	NIL		/HPF	< 20
RBCs	NIL		/HPF	0 - 5
Casts	Absent		/LPF	Absent
Crystals	Absent		/HPF	Absent

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LAB MR# : AMCT00018195

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SPECIMEN INFORMATION

SAMPLE TYPE : Fluoride Plasma
- F

LAB ORDER NO : VMCT23013476

COLLECTED ON : 25/Feb/2023 17:34

RECEIVED ON : 25/Feb/2023 18:17

REPORT STATUS : Final Report



APPROVED ON : 25/Feb/2023 18:41



BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
Glucose - Fasting				
Glucose - Fasting (Hexokinase)	115.0	H	mg/dL	Normal : 74-100 Pre-diabetic : 100-125 Diabetic: >=126

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GENDER : Male	HMIS MR# : AM-2-74754	COLLECTED ON : 25/Feb/2023 17:34	
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BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
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Mediwheel Active Check

TSH, Thyroid Stimulating Hormone (ECLIA)	2.400		µIU/mL	0.27 - 4.21
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Interpretation:

- The following potential sources of variation should be considered while interpreting thyroid hormone results:
1. Circadian variation in TSH secretion: peak levels are seen between 2-4 am. Minimum levels seen between 6-10 am. This variation may be as much as 50% thus, influence of sampling time needs to be considered for clinical interpretation.
 2. Total T3 and T4 levels are seen to have physiological rise during pregnancy and in patients on steroid treatment
 3. Circulating forms of T3 and T4 are mostly reversibly bound with Thyroxine binding globulins (TBG), and to a lesser extent with albumin and Thyroid binding Pre-Albumin. Thus the conditions in which TBG and protein levels alter such as chronic liver disorders, pregnancy, excess of estrogens, androgens, anabolic steroids and glucocorticoids may cause misleading total T3, total T4 and TSH interpretations.
 4. T4 may be normal in the presence of hyperthyroidism under the following conditions : T3 thyrotoxicosis, Hypoproteinemia related reduced binding, in presence of drugs (eg Phenytoin, Salicylates etc)
 5. Neonates and infants have higher levels of T4 due to increased concentration of TBG
 6. TSH levels may be normal in central hypothyroidism, recent rapid correction of hypothyroidism or hyperthyroidism, pregnancy, phenytoin therapy etc.
 7. TSH values of <0.03 uIU/mL must be clinically correlated to evaluate the presence of a rare TSH variant in certain individuals which is undetected by conventional methods.
 8. Presence of Autoimmune disorders may lead to spurious results of thyroid hormones
 9. Various drugs can lead to interference in test results
- It is recommended to evaluate unbound fractions, that is free T3 (fT3) and free T4 (fT4) for clinic-pathologic correlation, as these are the metabolically active forms.

Triglycerides

Triglycerides (Enzymatic colorimetry)	160.0	H	mg/dL	Normal : <150 Borderline-high : 150–199 High risk : 200–499 Very high risk : >500
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Cholesterol Total - Serum

Cholesterol Total - Serum (Enzymatic colorimetry)	194.0		mg/dL	No risk : <200 Moderate risk : 200-239 High risk : >240
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Cholesterol - HDL (Direct)

Cholesterol - HDL (Direct) (Enzymatic colorimetry)	45.0		mg/dL	High Risk : <40 No Risk : >60
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Cholesterol - LDL

Cholesterol - LDL (Direct) (Enzymatic colorimetry)	127.0	H	mg/dL	Optimum :<100 Above optimum :<130 Moderate risk :130-159 High risk :>160
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HMIS MR# : AM-2-74754

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BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				

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BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
VLDL (Very Low Density Lipoprotein)				
VLDL (Very Low Density Lipoprotein) (Calculation)	32.0	H	mg/dL	<30
LDL/HDL Ratio				
LDL/HDL Ratio	2.80			

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BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
Cholestrol/HDL Ratio				
Cho/HDL Ratio (Calculation)	4.31	H		Normal : <4.0 Low risk : 4.0-6.0 High risk : >6.0
Uric acid				
Uric acid (Uricase)	8.4	H	mg/dL	3.4-7

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REPORT STATUS : Final Report
APPROVED ON : 25/Feb/2023 19:02



BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
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Mediwheel Active Check

BUN/Creatinine Ratio

Blood Urea Nitrogen (BUN) (Calculation)	7.48	L	mg/dL	8.8-20.5
Creatinine (Modified Jaffe Kinetic)	1.10		mg/dL	< 1.20
BUN/Creatinine Ratio (Calculation)	6.80			10:1 to 20:1

Vitamin D, 25-Hydroxy

Vitamin D, 25-Hydroxy (ECLIA)	5.2	L	ng/ml	Deficient: <=20 Insufficiency: 20-29 Desirable: >=30-100 Toxicity: >100
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Kindly Correlate Clinically

Interpretation:

● **Interpretation:**

- Vitamin D is a fat soluble vitamin produced in the skin by exposure to sun light. Deficiency in children causes rickets and in adults leads to osteomalacia

Decreased:

- Impaired cutaneous production (lack of sunlight exposure)
- Dietary absence
- Malabsorption
- Increased metabolism due to drugs like barbiturates, phenytoin.
- Liver disease
- Renal failure
- VIT D receptor mutation

Increased:

- Vitamin D intoxication due to increased vit D supplements intake

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Ward / Room/ Bed No.

SPECIMEN INFORMATION

SAMPLE TYPE : Serum

LAB ORDER NO : VMCT23013476

COLLECTED ON : 25/Feb/2023 17:34

RECEIVED ON : 26/Feb/2023 09:50

REPORT STATUS : Final Report

APPROVED ON : 26/Feb/2023 12:02



BIOCHEMISTRY

Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
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Mediwheel Active Check

Rheumatoid Factor (RA) - Quantitative - Serum

Rheumatoid Factor (RA) - Quantitative - Serum (Immunoturbidimetry)	<10.0		IU/mL	<14.0 (Negative)
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Kindly Correlate Clinically

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Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
Bilirubin (Total, Direct and Indirect)				
Bilirubin Total (Diazo method)	0.40		mg/dL	<1.1
Bilirubin Conjugated (Diazo method)	0.20		mg/dL	<=0.2
Bilirubin Unconjugated, Indirect (Calculation)	0.20		mg/dL	<1.0
Alkaline Phosphatase - ALP				
Alkaline Phosphatase - ALP (IFCC kinetic)	95.0		U/L	<129
Albumin - Serum				
Albumin - Serum (Bromocresol green)	4.8		g/dL	3.5 - 5.2

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Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
Globulin				
Globulin (Calculation)	2.5		g/dL	2.3-3.5
A/G (Albumin/Globulin) Ratio				
A/G (Albumin/Globulin) Ratio (Calculation)	1.9			0.8-2.0

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Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				
Gamma Glutamyl Transferase (GGT)				
Gamma Glutamyl Transferase (GGT) (Enzymatic colorimetric assay)	161.0	H	U/L	< 71
Aspartate Aminotransferase (AST/SGOT)				
Aspartate Aminotransferase (AST/SGOT) (IFCC kinetic)	102	H	U/L	<37
Alanine aminotransferase - (ALT / SGPT)				
Alanine aminotransferase - (ALT / SGPT) (Kinetic IFCC)	216	H	U/L	<41
Protein Total, Serum				
Protein Total, Serum (Biuret Method)	7.3		g/dL	6.4-8.3
Electrolytes (Na, K, Cl) - Serum				
Sodium - Serum (ISE Indirect)	137.0		mmol/L	136 - 145
Potassium (ISE Indirect)	3.90		mmol/L	3.5-5.1
Chloride - Serum (ISE Indirect)	98.7		mmol/L	98-107

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



Dr. Kusneniwar Pallavi Ramesh Rao
Consultant-Pathologist





Dr. Maninderbir Kaur
Consultant-Pathologist

Disclaimer:

- All results released pertain to the specimen as received by the lab for testing and under the assumption that the patient indicated or identified on the bill/test requisition form is the owner of the specimen.
- Clinical details and consent forms, especially in Genetic testing, histopathology, as well as wherever applicable, are mandatory to be accompanied with the test requisition form. The non-availability of such information may lead to delay in reporting as well as misinterpretation of test results. The lab will not be responsible for any such delays or misinterpretations

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Test Name (Methodology)	Result	Flag	Units	Biological Reference Interval
Mediwheel Active Check				

thereof.

- Test results are dependent on the quality of the sample received by the lab. In case the samples are preprocessed elsewhere (e.g., paraffin blocks), results may be compromised.
- Tests are performed as per the schedule given in the test listing and in any unforeseen circumstances, report delivery may be affected.
- Test results may show inter-laboratory as well as intra-laboratory variations as per the acceptable norms.
- Genetic reports as well as reports of other tests should be correlated with clinical details and other available test reports by a qualified medical practitioner. Genetic counselling is advised in genetic test reports by a qualified genetic counsellor, medical practitioner or both.
- Samples will be discarded post processing after a specified period as per the laboratory's retention policy. Kindly get in touch with the lab for more information.
- If accidental damage, loss, or destruction of the specimen is not attributable to any direct or negligent act or omission on the part of Ampath Labs or its employees, Ampath shall in no event be liable. Ampath lab's liability for a lack of services, or other mistakes and omissions, shall be restricted to the amount of the patient's payment for the pertinent laboratory services.