Name	: Mr. MURALI KB
PID No.	: MED410010100
SID No.	: 712414423
Age / Sex	: 51 Year(s) / Male
Туре	: OP
Ref. Dr	: MediWheel

Register On	:	11/05/2024 9:47 AM
Collection On	:	11/05/2024 10:04 AM
Report On	:	11/05/2024 4:09 PM
Printed On	:	18/05/2024 12:33 PM



Investigation

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination) Remark: Test to be confirmed by gel method.

Johan Kumar Sr.LabTechnician VERIFIED BY

Observed

<u>Value</u>

'B' 'Negative'

Biological Reference Interval



<u>Unit</u>



APPROVED BY

Name PID No. SID No. Age / Sex Type Ref. Dr	: Mr. MURALI KB : MED410010100 : 712414423 : 51 Year(s) / Male : OP : MediWheel	Register On Collection On Report On Printed On	: 11/05/ : 11/05/	2024 9:47 AM 2024 10:04 AM ⁄2024 4:09 PM 2024 12:33 PM	DIAGNOSTICS
<u>Investiga</u> HAEN	ation IATOLOGY		erved alue	<u>Unit</u>	Biological Reference Interval
	e Blood Count With - ESR				
Haemogl (EDTA Blo	obin oodSpectrophotometry)		16.0	g/dL	13.5 - 18.0
	RETATION: Haemoglobin values v , renal failure etc. Higher values are				n values may be due to nutritional deficiency, hypoxia etc.
PCV (Pa	cked Cell Volume) / Haematoc	-	47.3	%	42 - 52
RBC Cor (EDTA Blo	unt ood/Automated Blood cell Counter)		5.08	mill/cu.mm	4.7 - 6.0
	lean Corpuscular Volume)	,	78.0	fL	78 - 100
	lean Corpuscular Haemoglobin)	26.4	pg	27 - 32
concentra	Mean Corpuscular Haemoglob ation) pod/Derived)	n á	33.9	g/dL	32 - 36
RDW-C (Derived)	V		13.7	%	11.5 - 16.0
RDW-SI (Derived))	3	7.40	fL	39 - 46
	BC Count (TC) ood/Derived from Impedance)	ç	9490	cells/cu.mm	4000 - 11000
Neutroph (Blood/Imp	nils Deedance Variation & Flow Cytometry)		55	%	40 - 75
Lympho			32	%	20 - 45



(Blood/Impedance Variation & Flow Cytometry)





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Туре	: OP	Printed On	: 18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	08	%	01 - 06
Monocytes (Blood/Impedance Variation & Flow Cytometry)	05	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	00	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	5.22	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	3.04	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.76	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.47	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.00	10^3 / µl	< 0.2
Platelet Count (EDTA Blood/Derived from Impedance)	200	10^3 / µl	150 - 450
MPV (Blood/Derived)	12.3	fL	7.9 - 13.7
PCT	0.25	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate)	15	mm/hr	< 20

Smohn h Mr. S. Mohan Kumar Sr. LabTechnician VERIFIED BY

(Citrated Blood/Automated ESR analyser)





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<u>Observed</u> Unit **Biological** Investigation Value Reference Interval **BIOCHEMISTRY** Liver Function Test Bilirubin(Total) 0.6 mg/dL 0.1 - 1.2 (Serum/Diazotized Sulfanilic Acid) 0.2 0.0 - 0.3 Bilirubin(Direct) mg/dL (Serum/Diazotized Sulfanilic Acid) Bilirubin(Indirect) 0.1 - 1.0 0.40 mg/dL (Serum/Derived) **Total Protein** 6.7 gm/dl 6.0 - 8.0 (Serum/Biuret) 3.5 - 5.2 Albumin 4.0 gm/dl (Serum/Bromocresol green) Globulin 2.70 gm/dL 2.3 - 3.6 (Serum/Derived) 1.48 1.1 - 2.2 A : G Ratio (Serum/Derived) INTERPRETATION: Remark : Electrophoresis is the preferred method SGOT/AST (Aspartate Aminotransferase) 40 U/L 5 - 40 (Serum/IFCC / Kinetic) SGPT/ALT (Alanine Aminotransferase) 64 U/L 5 - 41 (Serum/IFCC / Kinetic) U/L 56 - 119 Alkaline Phosphatase (SAP) 94 (Serum/PNPP / Kinetic) GGT(Gamma Glutamyl Transpeptidase) 57 U/L < 55



(Serum/IFCC / Kinetic)





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Name	: Mr. MURALI KB			
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SID No.	: 712414423	Collection On : 1	1/05/2024 10:04 AM	
Age / Sex	: 51 Year(s) / Male	Report On : 1	11/05/2024 4:09 PM	medall
Туре	: OP	Printed On : 1	18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Lipid Profile			
Cholesterol Total (Serum/Oxidase / Peroxidase method)	204	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	274	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >=500

INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the `usual_ circulating level of triglycerides during most part of the day.

Remark: Kindly correlate clinically

Kemark. Kindly conclude chinearly			
HDL Cholesterol (Serum/Immunoinhibition)	33	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	116.2	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	54.8	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	171.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >=220







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Туре	: OP	Printed On : 18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	Unit <u>Biological</u> <u>Reference Interval</u>	
INTERPRETATION: 1.Non-HDL Cholesterol is no 2.It is the sum of all potentially atherogenic proteins co-primary target for cholesterol lowering therapy.		cardiovascular risk marker than LDL Cholesterol. DL and chylomicrons and it is the "new bad cholesterol" and is a	a
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	6.2	Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0	
Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/ <i>Calculated</i>)	8.3	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0	

LDL/HDL Cholesterol Ratio (Serum/Calculated)

3.5







Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

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Туре	: OP	Printed On : 18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/ <i>HPLC</i>)	8.1	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 %, Fair control : 7.1 - 8.0 %, Poor control >= 8.1 %

Remark: Kindly correlate clinically,

Estimated Average Glucose	185.77	mg/dl
---------------------------	--------	-------

(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency,

hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values. Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.







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Туре	: OP	Printed On : 18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
BUN / Creatinine Ratio	8.6		
Glucose Fasting (FBS) (Plasma - F/GOD- POD)	155	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Urine sugar, Fasting (Urine - F)	Nil		Nil
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	195	mg/dL	70 - 140

INTERPRETATION:

Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti- diabetic medication during treatment for Diabetes.

Urine Sugar (PP-2 hours) (Urine - PP)	Trace	Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	7.8 mg/dL	7.0 - 21
Creatinine	0.9 mg/dL	0.9 - 1.3

(Serum/Jaffe Kinetic)

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists,N-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid	5.1	mg/dL
(Serum/Uricase/Peroxidase)		







3.5 - 7.2

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Туре	: OP	Printed On	: 18/05/2024 12:33 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> Value	<u>Unit</u>	<u>Biological</u> Reference Interval
IMMUNOASSAY	value		<u>Reference interval</u>
THYROID PROFILE / TFT			
T3 (Triiodothyronine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.42	ng/mL	0.4 - 1.81
INTERPRETATION: Comment : Total T3 variation can be seen in other condition like pre- Metabolically active.	gnancy, drugs, neph	rrosis etc. In such case	s, Free T3 is recommended as it is
T4 (Thyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	6.97	µg/dL	4.2 - 12.0
INTERPRETATION: Comment : Total T4 variation can be seen in other condition like pre- Metabolically active.	gnancy, drugs, neph	rosis etc. In such case	s, Free T4 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.92	µIU/mL	0.35 - 5.50
INTERPRETATION: Reference range for cord blood - upto 20 1 st trimester: 0.1-2.5 2 nd trimester 0.2-3.0 3 rd trimester : 0.3-3.0 (Indian Thyroid Society Guidelines)			
Comment : 1.TSH reference range during pregnancy depends on Iod 2.TSH Levels are subject to circadian variation, reaching of the order of 50%,hence time of the day has influence of	peak levels betwee on the measured ser	n 2-4am and at a mini um TSH concentration	mum between 6-10PM.The variation can be

 $3.Values\&lt0.03 \ \mu IU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.$

Smohn hm. Mr.S.Mohan Kumar Sr.LabTechnician
VERIFIED BY





APPROVED BY

	JNOASSAY	Value	Reference Interval
Investiga	ation	<u>Observed</u> Unit	Biological
Ref. Dr	: MediWheel		
Туре	: OP	Printed On : 18/05/2024 12:33 PM	DIAGNOSTICS
Age / Sex	: 51 Year(s) / Male	Report On : 11/05/2024 4:09 PM	medall
SID No.	: 712414423	Collection On : 11/05/2024 10:04 AM	
PID No.	: MED410010100	Register On : 11/05/2024 9:47 AM	\sim
Name	: Mr. MURALI KB		

Total PSA (Serum/Chemiluminescent Immunometric Assay (CLIA)) 0.88

ng/mL

Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease of Prostate: > 10.0

INTERPRETATION: REMARK : PSA alone should not be used as an absolute indicator of malignancy.

ohan Kumar Sr.LabTechnician VERIFIED BY





APPROVED BY

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
CLINICAL PATHOLOGY			
PHYSICAL EXAMINATION			
Colour (Urine/Physical examination)	Pale Yellow		Yellow to Amber
Volume (Urine/Physical examination)	25		ml
Appearance (Urine)	Clear		
CHEMICAL EXAMINATION			
pH (Urine)	6.5		4.5 - 8.0
Specific Gravity (Urine/Dip Stick - Reagent strip method)	1.010		1.002 - 1.035
Protein (Urine/Dip Stick - Reagent strip method)	Negative		Negative
Glucose (Urine)	Nil		Nil
Ketone (Urine/Dip Stick - Reagent strip method)	Nil		Nil
Leukocytes (Urine)	Negative	leuco/uL	Negative
Nitrite (Urine/Dip Stick - Reagent strip method)	Nil		Nil
Bilirubin (Urine)	Negative	mg/dL	Negative
Blood (Urine)	Nil		Nil







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Age / Sex	: 51 Year(s) / Male	Report On : 11/05/2024 4:09	medall
Туре	: OP	Printed On : 18/05/2024 12:3	3 PM
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Urobilinogen (Urine/Dip Stick ⁻ Reagent strip method)	Normal		Within normal limits
<u>Urine Microscopy Pictures</u>			
RBCs (Urine/Microscopy)	Nil	/hpf	NIL
Pus Cells (Urine/Microscopy)	2-3	/hpf	< 5
Epithelial Cells (Urine/Microscopy)	3-4	/hpf	No ranges
Others (Urine)	Nil		Nil







APPROVED BY

-- End of Report --



Name	Mr.MURALI KB	ID	MED410010100
Age & Gender	51/MALE	Visit Date	11/05/2024
Ref Doctor Name	MediWheel		

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size and has uniform echopattern.

No evidence of focal lesion or intrahepatic biliary ductal dilatation.

Hepatic and portal vein radicals are normal.

GALL BLADDER is partially distended.

PANCREAS has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

SPLEEN show normal shape, size and echopattern.

KIDNEYS move well with respiration and have normal shape, size and echopattern. Cortico- medullary differentiations are well madeout.

No evidence of calculus or hydronephrosis.

	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	10.9	2.0
Left Kidney	9.9	1.9

URINARY BLADDER show normal shape and wall thickness. It has clear contents.

Prevoid volume - 325cc

Postvoid residual urine - 95cc

PROSTATE shows normal shape, size and echopattern. It measures 2.6 x 4.3 x 3.0cms and volume 17.4cc. No evidence of ascites.

IMPRESSION:

> SIGNIFICANT POSTVOID RESIDUAL URINE.

REPORT DISCLAIMER

- This is only a radiologincal imperssion. Like other investigations, radiological investication also have limitation. Therefore radiologincal reports should be interpreted in correlation with clinical and pathological findings.
- The results reported here in are subject to interpretation by qualified medical professionals only.
 Customer identities are accepted provided by the customer or their representative.
- 4.information about the customer's condition at the time of sample collection such as fasting, food
- consumption, medication, etc are accepted as provided by the customer or representative and shall not be investigated for its truthfulness.
- 5.If any specimen/sample is received from any others laboratory/hospital,its is presumed that the sample belongs to the patient identified or named.
- 6.Test results should be interpreted in context of clinical and other findings if any. In case of any clarification /doubt , the refrering doctor/patient can contact the respective section head of the laboratory.
- 7.Results of the test are influenced by the various factors such as sensitivity, specificity of the procedures of the tests, quality of the samples and drug interactions etc.,
- 8. If the test results are found not to be correlating clinically can contact the lab in charge for clarification or retesting where practicable within 24 hours from the time of issue of results.
- 9.Liability is limited to the extend of amount billed.
- 10.Reports are subject to interpretation in their entirety partial or selective interpretation may lead to false opinion.
- 11.Disputes, if any, with regard to the report findings are subject to the exclusive jurisdiction of the competent courts chennai only.



Name	Mr.MURALI KB	ID	MED410010100
Age & Gender	51/MALE	Visit Date	11/05/2024
Ref Doctor Name	MediWheel		

CONSULTANT RADIOLOGISTS

DR. ANITHA ADARSH

DR. MOHAN B

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Name	Mr. MURALI KB	ID	MED410010100
Age & Gender	51Y/M	Visit Date	May 11 2024 9:47AM
Ref Doctor	MediWheel	·	

X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

Impression: No significant abnormality detected.

DR. MOHAN. B (DMRD, DNB, EDIR, FELLOW IN CARDIAC MRI) CONSULTANT RADIOLOGIST