Name	: Mr. N KUMARA	
PID No.	: MED111426485	Register On : 13/01/2024 8:04 AM
SID No.	: 712401467	Collection On : 13/01/2024 11:07 AM
Age / Sex	: 54 Year(s) / Male	Report On : 13/01/2024 6:35 PM
Туре	: OP	Printed On : 30/01/2024 2:03 PM
Ref. Dr	: MediWheel	



Investigation

IMMUNOHAEMATOLOGY

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

'O' 'Positive'

Observed

<u>Value</u>



<u>Unit</u>



Biological Reference Interval

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SID No.	: 712401467	Collection On :	13/01/2024 11:07 AM	1
Age / Sex	: 54 Year(s) / Male	Report On :	13/01/2024 6:35 PM	medall
Туре	: OP	Printed On :	30/01/2024 2:03 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			
<u>Investig</u> a	ation	<u>Observ</u> <u>Valu</u>		Biological Reference Interval
<u>HAEN</u>	<u>IATOLOGY</u>			
<u>Complet</u>	e Blood Count With - ESR			
Haemog (EDTA Bl	lobin ood/Spectrophotometry)	15.0) g/dL	13.5 - 18.0
	RETATION: Haemoglobin values, renal failure etc. Higher values			lobin values may be due to nutritional deficiency, ides , hypoxia etc.
	cked Cell Volume) / Haema ood/Derived)	atocrit 44.	8 %	42 - 52
RBC Co (EDTA Bl	unt ood/Automated Blood cell Counter	•) •)	4 mill/cu.m	m 4.7 - 6.0
	fean Corpuscular Volume)	91.0) fL	78 - 100
	fean Corpuscular Haemoglo	obin) 30.1	3 pg	27 - 32
concentr	Mean Corpuscular Haemog ation) ood/Derived)	lobin 33.	5 g/dL	32 - 36
RDW-C (Derived)	V	13.0	5 %	11.5 - 16.0
RDW-SI (Derived))	43.3	2 fL	39 - 46
	BC Count (TC) ood/Derived from Impedance)	903	0 cells/cu.m	m 4000 - 11000
Neutropl		55 etry)	%	40 - 75
Lympho		38	%	20 - 45

(Blood/Impedance Variation & Flow Cytometry)





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Туре	: OP	Printed On	: 30/01/2024 2:03 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	01	%	01 - 06
Monocytes (Blood/Impedance Variation & Flow Cytometry)	06	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	00	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	4.97	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood'Impedance Variation & Flow Cytometry)	3.43	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.09	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood'Impedance Variation & Flow Cytometry)	0.54	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)	311	10^3 / µl	150 - 450
MPV (Blood/Derived)	11.1	fL	7.9 - 13.7
PCT	0.35	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/Automated ESR analyser)	05	mm/hr	< 20





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Age / Sex	: 54 Year(s) / Male
Туре	: OP
Ref. Dr	: MediWheel

Register On	:	13/01/2024 8:04 AM
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Report On	:	13/01/2024 6:35 PM
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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.4	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.1	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.30	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.5	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.4	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	3.10	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.42		1.1 - 2.2
INTERPRETATION: Remark : Electrophoresis is the p	referred method		
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC / Kinetic)	23	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	31	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/PNPP / Kinetic)	100	U/L	56 - 119
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	40	U/L	< 55





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Age / Sex	: 54 Year(s) / Male	Report On : 13/01/2024 6:35 PM	medall
Туре	: OP	Printed On : 30/01/2024 2:03 PM	DIAGNOSTICS
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
<u>Lipid Profile</u>			
Cholesterol Total (Serum/Oxidase / Peroxidase method)	224	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	300	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 õusualö"circulating level of triglycerides during most part of the day.

Remark: Kindly correlate clinically.

APPROVED BY

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SID No.	: 712401467	Collection On	: 13/01/2024 11:07 AM	
Age / Sex	: 54 Year(s) / Male	Report On	: 13/01/2024 6:35 PM	medall
Туре	: OP	Printed On	: 30/01/2024 2:03 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			
Investigat	tion		<u>erved Unit</u> alue	Biological Reference Interval

INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol. 2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	9	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>)	12	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	5.6	Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0





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Name PID No. SID No. Age / Sex Type Ref. Dr	 Mr. N KUMARA MED111426485 712401467 54 Year(s) / Male OP MediWheel 	Collection On : Report On :	13/01/20 13/01/20	24 8:04 AM 24 11:07 AM 24 6:35 PM 24 2:03 PM	DIAGNOSTICS
Investiga Glycosyl	ation ated Haemoglobin (HbA1c)	<u>Observ</u> Valu		<u>Unit</u>	Biological Reference Interval
HbA1C (Whole Blo	ood/HPLC)	06.	8	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
INTERPI	RETATION: If Diabetes - Good cor	utrol : 6.1 - 7.0 % , Fai	r control : ´	7.1 - 8.0 % , Poor	• control >= 8.1 %

Estimated Average Glucose 148.46 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	: 30/01/2024 2:03 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
BIOCHEMISTRY			
BUN / Creatinine Ratio	7.9		
Glucose Fasting (FBS) (Plasma - F/ <i>GOD- POD</i>)	100	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126
INTERPRETATION: Factors such as type, quantity an blood glucose level.	d time of food intak	e, Physical activity,	Psychological stress, and drugs can influence
Glucose Postprandial (PPBS) (Plasma - PP/GOD - POD)	239	mg/dL	70 - 140
INTERPRETATION: Factors such as type, quantity and time of food intake, P Fasting blood glucose level may be higher than Postprar resistance, Exercise or Stress, Dawn Phenomenon, Somo	idial glucose, becaus	e of physiological si	arge in Postprandial Insulin secretion, Insulin
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	11.9	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Jaffe Kinetic</i>)	1.6	mg/dL	0.9 - 1.3
INTERPRETATION: Elevated Creatinine values are e ingestion of cooked meat, consuming Protein/ Creatine s such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin etc.	supplements, Diabeti	c Ketoacidosis, prol	onged fasting, renal dysfunction and drugs
Remark: Kindly correlate clinically.			
Uric Acid (Serum/Uricase/Peroxidase)	5.8	mg/dL	3.5 - 7.2
			Cit

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Name PID No. SID No. Age / Sex Type Ref. Dr	: Mr. N KUMARA : MED111426485 : 712401467 : 54 Year(s) / Male : OP : MediWheel	Register On : 13/01/2024 Collection On : 13/01/2024 Report On : 13/01/2024 Printed On : 30/01/2024	4 11:07 AM 4 6:35 PM	Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contraction Contr
	ation JNOASSAY ID PROFILE / TFT	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
(Serum/Ch (CLIA)) INTERPH Comment Total T3 v	odothyronine) - Total emiluminescent Immunometric Assay RETATION: : : ariation can be seen in other conditionally active.		ng/ml s etc. In such cases, Fre	0.4 - 1.81 ee T3 is recommended as it is
(Serum/Ch (CLIA)) INTERPH Comment Total T4 v	roxine) - Total emiluminescent Immunometric Assay RETATION: : ariation can be seen in other conditionally active.		Microg/dl s etc. In such cases, Fre	4.2 - 12.0 ee T4 is recommended as it is
TSH (Th (Serum/Ch (CLIA)) INTERPH Reference 1 st trimes 2 nd trimes 3 rd trimes	yroid Stimulating Hormone) emiluminescent Immunometric Assay RETATION: range for cord blood - upto 20 ter: 0.1-2.5 ster 0.2-3.0 ster : 0.3-3.0 yyroid Society Guidelines)	2.045	µIU/mL	0.35 - 5.50

Comment :

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI. 2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations.

3.Values&lt,0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.





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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)	yellow		Yellow to Amber
Volume (Urine/Physical examination)	20		ml
Appearance (Urine)	clear		
CHEMICAL EXAMINATION			
pH (Urine)	6.0		4.5 - 8.0
Specific Gravity (Urine/Dip Stick ó [*] Reagent strip method)	1.010		1.002 - 1.035
Protein (Urine/Dip Stick ó"Reagent strip method)	Negative		Negative
Glucose (Urine)	Negative		Nil
Ketone (Urine/Dip Stick ó"Reagent strip method)	Nil		Nil
Leukocytes (Urine)	Negative	leuco/uL	Negative
Nitrite (Urine/Dip Stick ó"Reagent strip method)	Nil		Nil
Bilirubin (Urine)	Negative	mg/dL	Negative
Blood (Urine)	Nil		Nil





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SID No.	: 712401467	Collection On : 13/01/2		
Age / Sex	: 54 Year(s) / Male	Report On : 13/01/2	2024 6:35 PM medall	
Туре	: OP	Printed On : 30/01/2	2024 2:03 PM DIAGNOSTICS	
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Urobilinogen (Urine/Dip Stick ó [®] Reagent strip method) Urine Microscopy Pictures	Within normal limit	S	Within normal limits
RBCs (Urine/ <i>Microscopy</i>)	NIL	/hpf	NIL
Pus Cells (Urine/ <i>Microscopy</i>)	2-4	/hpf	< 5
Epithelial Cells (Urine/Microscopy)	1-2	/hpf	No ranges
Others (Urine)	NIL		Nil





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-- End of Report --



Name	Mr. N KUMARA	ID	MED111426485
Age & Gender	54Y/M	Visit Date	Jan 13 2024 8:03AM
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.

<u>Impression</u>: No significant abnormality detected.

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