Name : Mr. SAMPATH M P			
PID No. : KLP443295	Register On :	12/03/2022 9:32 AM	m
SID No. : 1802210021	Collection On :	12/03/2022 9:51 AM	
Age / Sex : 61 Year(s) / Male	Report On :	13/03/2022 1:56 PM	MEDALL
Type : OP	Printed On :	17/03/2022 3:45 PM	
Ref. Dr : MediWheel			
Investigation	<u>Observed</u> <u>Value</u>	Unit	<u>Biological</u> <u>Reference Interval</u>
BLOOD GROUPING AND Rh TYPING (EDTA Blood'Agglutination)	'O' 'Positive'		
<b>INTERPRETATION:</b> Reconfirm the Blood g	group and Typing befo	re blood transfusion	
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood'Spectrophotometry)	14.0	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocri (EDTA Blood/Derived from Impedance)	t <b>40.8</b>	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	4.54	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	89.8	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH (EDTA Blood/Derived from Impedance)	) 30.7	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	34.2	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	13.4	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	42.12	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	5400	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	44.2	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	42.2	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	4.9	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	7.2	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.5	%	00 - 02

INTERPRETATION: Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.

The results pertain to sample tested.

Page 1 of 5

Name	: Mr. SAMPATH M P		
PID No.	: KLP443295	Register On : 12/03/2022 9:32 AM	$\mathbf{C}$
SID No.	: 1802210021	Collection On : 12/03/2022 9:51 AM	
Age / Sex	: 61 Year(s) / Male	Report On : 13/03/2022 1:56 PM	MEDALL
Туре	: OP	Printed On : 17/03/2022 3:45 PM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.39	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.28	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.26	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.39	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.08	10^3 / µl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	226	10^3 / µl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	8.1	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.18	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method)	15	mm/hr	< 20
BUN / Creatinine Ratio	11.49		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	137.4	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.

Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	15.4	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Modified Jaffe</i> )	1.34	mg/dL	0.8 - 1.3

**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-acetylcysteine, chemotherapeutic agent such as flucytosine etc.

Uric Acid	4.4	mg/dL	3.5 - 7.2
(Serum/Enzymatic)			
I have France the mark			

<u>Liver Function Test</u>

The results pertain to sample tested.

Page 2 of 5

Name	: Mr. SAMPATH M P			
PID No.	: KLP443295	Register On : 12	2/03/2022 9:32 AM	$\mathbf{C}$
SID No.	: 1802210021	Collection On : 1		
Age / Sex	: 61 Year(s) / Male	Report On : 1	13/03/2022 1:56 PM	MEDALL
Туре	: OP	Printed On : 1	17/03/2022 3:45 PM	
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Bilirubin(Total) (Serum/DCA with ATCS)	0.61	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.25	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.36	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC)</i>	44.8	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/ <i>Modified IFCC</i> )	62.9	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	42.4	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/ <i>Modified IFCC</i> )	61.6	U/L	56 - 119
Total Protein (Serum/ <i>Biuret</i> )	7.46	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.34	gm/dl	3.5 - 5.2
Globulin (Serum/ <i>Derived</i> )	3.12	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.39		1.1 - 2.2
Lipid Profile			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	146.8	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	147.3	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.

HDL Cholesterol	43.9	mg/dL	Optimal(Negative Risk Factor): >=
(Serum/Immunoinhibition)			60
			Borderline: 40 - 59
			High Risk: < 40
			-

The results pertain to sample tested.

Page 3 of 5

Name	: Mr. SAMPATH M P		
PID No.	: KLP443295	Register On : 12/03/2022 9:32 AM	$\mathbf{C}$
SID No.	: 1802210021	Collection On : 12/03/2022 9:51 AM	
Age / Sex	: 61 Year(s) / Male	Report On : 13/03/2022 1:56 PM	MEDALL
Туре	: OP	Printed On : 17/03/2022 3:45 PM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
LDL Cholesterol (Serum/Calculated)	73.4	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	29.5	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	102.9	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220

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/ <i>Calculated</i> )	3.3		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> )	3.4		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/ <i>Calculated</i> )	1.7		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/ <i>HPLC</i> )	7.5	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
<b>INTERPRETATION:</b> If Diabetes - Good control : 6.	l - 7.0 % , Fair	control : 7.1 - 8.0 %, Poor co	ntrol >= 8.1 %
Estimated Average Glucose (Whole Blood)	168.55	mg/dL	

**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.

The results pertain to sample tested.

lame	: Mr. SAMPATH M P				
ID No.	: KLP443295	Register On	:	12/03/2022 9:32 AM	$\sim$
ID No.	: 1802210021	<b>Collection Or</b>	:	12/03/2022 9:51 AM	
ge / Sex	: 61 Year(s) / Male	Report On	:	13/03/2022 1:56 PM	MEDALL
уре	: OP	Printed On	:	17/03/2022 3:45 PM	
ef. Dr	: MediWheel				
Investig	ation	<u>Observe</u> <u>Value</u>		<u>Unit</u>	Biological Reference Interval
	specific antigen - Total(PSA anometric method)	.) 0.812		ng/mL	Normal: 0.0 - 4.0 Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0 Suspicious of Malignant disease o Prostate: > 10.0
	RETATION: REMARK : PSA al ID PROFILE / TFT	lone should not be us	ed a	as an absolute indicator of m	alignancy.
	odothyronine) - Total nemiluminescent Immunometric Ass	0.75 ay		ng/ml	0.4 - 1.81
Commen Total T3 v		lition like pregnancy	, dr	ugs, nephrosis etc. In such c	ases, Free T3 is recommended as it is
	oxine) - Total nemiluminescent Immunometric Ass	4.36 ay		µg/dl	4.2 - 12.0
Commen Total T4 v		dition like pregnancy	, dr	ugs, nephrosis etc. In such c	ases, Free T4 is recommended as it is
	yroid Stimulating Hormone) memiluminescent Immunometric Ass			µIU/mL	0.35 - 5.50
Reference 1 st trimes 2 nd trime 3 rd trime	RETATION: range for cord blood - upto 20 ster: 0.1-2.5 ster 0.2-3.0 ster : 0.3-3.0 hyroid Society Guidelines) t:				
Commen					ncentration, race, Ethnicity and BMI.

-- End of Report --

The results pertain to sample tested.

Page 5 of 5