Name	: Mr. RAVI H M		
PID No.	: MED111036510	Register On : 28/03/2022 9:22 AM	$\mathbf{C}$
SID No.	: 712209681	Collection On : 28/03/2022 9:45 AM	
Age / Sex	: 48 Year(s) / Male	Report On : 29/03/2022 6:42 PM	MEDALL
Туре	: OP	Printed On : 30/03/2022 8:37 AM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<b>HAEMATOLOGY</b>			
<b>Complete Blood Count With - ESR</b>			
Haemoglobin (EDTA Blood'Spectrophotometry)	13.9	g/dL	13.5 - 18.0
<b>INTERPRETATION:</b> Haemoglobin values vary in Men blood loss, renal failure etc. Higher values are often due t			
PCV (Packed Cell Volume) / Haematocrit (EDTA Blood/Derived)	41.5	%	42 - 52
RBC Count (EDTA Blood/Automated Blood cell Counter)	4.64	mill/cu.mm	4.7 - 6.0
MCV (Mean Corpuscular Volume) (EDTA Blood/Derived from Impedance)	90.0	fL	78 - 100
MCH (Mean Corpuscular Haemoglobin) (EDTA Blood/ <i>Derived</i> )	30.0	pg	27 - 32
MCHC (Mean Corpuscular Haemoglobin concentration) (EDTA Blood/Derived)	33.5	g/dL	32 - 36
RDW-CV (Derived)	13.9	%	11.5 - 16.0
RDW-SD (Derived)	43.78	fL	39 - 46
Total WBC Count (TC) (EDTA Blood/Derived from Impedance)	6800	cells/cu.mm	4000 - 11000
Neutrophils (Blood/Impedance Variation & Flow Cytometry)	57	%	40 - 75
Lymphocytes (Blood/Impedance Variation & Flow Cytometry)	37	%	20 - 45



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
Eosinophils (Blood/Impedance Variation & Flow Cytometry)	03	%	01 - 06
Monocytes (Blood/Impedance Variation & Flow Cytometry)	03	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	00	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	3.88	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.52	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.20	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.20	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)	212	10^3 / µl	150 - 450
MPV (Blood/Derived)	7.1	fL	7.9 - 13.7
PCT	0.15	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate)	18	mm/hr	< 15

(Citrated Blood/Automated ESR analyser)



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Туре	: OP
Ref. Dr	: MediWheel

Register On	:	28/03/2022 9:22 AM
<b>Collection On</b>	:	28/03/2022 9:45 AM
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**Investigation** <u>Unit</u> Observed **Biological** <u>Value</u> **Reference** Interval BIOCHEMISTRY Liver Function Test Bilirubin(Total) 0.7 mg/dL 0.1 - 1.2 (Serum/Diazotized Sulfanilic Acid) 0.2 mg/dL 0.0 - 0.3 Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid) 0.50 0.1 - 1.0 Bilirubin(Indirect) mg/dL (Serum/Derived) **Total Protein** 6.6 6.0 - 8.0 gm/dl (Serum/Biuret) 3.5 - 5.2 4.1 gm/dl Albumin (Serum/Bromocresol green) 2.3 - 3.6 Globulin 2.50 gm/dL (Serum/Derived) A: G Ratio 1.1 - 2.2 1.64 (Serum/Derived) INTERPRETATION: Remark : Electrophoresis is the preferred method U/L 5 - 40 SGOT/AST (Aspartate Aminotransferase) 30 (Serum/IFCC / Kinetic) U/L 5 - 41 SGPT/ALT (Alanine Aminotransferase) 36 (Serum/IFCC / Kinetic) U/L Alkaline Phosphatase (SAP) 89 53 - 128 (Serum/PNPP / Kinetic) GGT(Gamma Glutamyl Transpeptidase) U/L < 55 16



(Serum/IFCC / Kinetic)

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SID No.	: 712209681	Collection On : 28/03/2022 9:45 AM	
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Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<u>Lipid Profile</u>			
Cholesterol Total (Serum/Oxidase / Peroxidase method)	155	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	143	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 (Serum/Immunoinhibition)	45	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
Remark: kindly correlate clinically.			
LDL Cholesterol (Serum/Calculated)	81.4	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	28.6	mg/dL	< 30
Dr.Arjun C.P MBBS.MD Pathology Reg No:KMC 89655 VERIFIED BY		DR SHA	MIM JAVED ATHOLOGY 88902
		API	PROVED BY

Name	: Mr. RAVI H M		
PID No.	: MED111036510	Register On : 28/03/2022 9:22 AM	M
SID No.	: 712209681	Collection On : 28/03/2022 9:45 AM	
Age / Sex	: 48 Year(s) / Male	Report On : 29/03/2022 6:42 PM	MEDALL
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Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Non HDL Cholesterol (Serum/ <i>Calculated</i> )	110.0	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/Calculated)	3.4	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> )	3.2	Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.8	Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0



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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> )	5.7	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
INTERDRET ATION, If Diskess, Cool control of 1	7.0.0/ Esin sentesl.	71 800/ Door control	1. 0.1.0/

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

Estimated Average Glucose	116.89	mg/dL
---------------------------	--------	-------

(Whole Blood)

#### **INTERPRETATION:** Comments

HbA1c provides an index of Average Blood Glucose levels over the past8 - 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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Investigation	<u>Observed</u> Value	<u>Unit</u>	Biological Reference Interval
<b>IMMUNOASSAY</b>			
<u>THYROID PROFILE / TFT</u>			
T3 (Triiodothyronine) - Total (Serum/ <i>Chemiluminescent Immunometric Assay</i> ( <i>CLIA</i> )) <b>INTERPRETATION:</b> <b>Comment :</b> Total T3 variation can be seen in other condition like pres	0.84 gnancy, drugs, nepł	ng/ml nrosis etc. In such cases,	0.7 - 2.04 Free T3 is recommended as it is
Metabolically active. T4 (Thyroxine) - Total (Serum/Chemiluminescent Immunometric Assay (CLIA))	9.39	Microg/dl	4.2 - 12.0
<b>INTERPRETATION:</b> <b>Comment :</b> Total T4 variation can be seen in other condition like prea Metabolically active.	gnancy, drugs, nepł	nrosis etc. In such cases,	Free T4 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Immunometric Assay (CLIA))	1.720	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 3. Values&amplt0.03 uIU/mL need to be clinically correl	peak levels betwee on the measured ser	n 2-4am and at a minim um TSH concentrations	num between 6-10PM. The variation can be

3.Values&amplt0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



Name	:	Mr. RAVI H M
PID No.	:	MED111036510
SID No.	:	712209681
Age / Sex	:	48 Year(s) / Male
Туре	:	OP
Ref. Dr	:	MediWheel

:	28/03/2022 9:22 AM
:	28/03/2022 9:45 AM
:	29/03/2022 6:42 PM
:	30/03/2022 8:37 AM
	:



Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
CLINICAL PATHOLOGY			
PHYSICAL EXAMINATION			
Colour (Urine/Physical examination)	Pale yellow		Yellow to Amber
Volume (Urine/Physical examination)	30		ml
Appearance (Urine)	Clear		
CHEMICAL EXAMINATION			
pH (Urine)	6.0		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



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

Dr Shouree K.R MBBS MD DNB Consultant Pathologist Reg No : KMC 103138 APPROVED BY

Name	:	Mr. RAVI H M
PID No.	:	MED111036510
SID No.	:	712209681
Age / Sex	:	48 Year(s) / Male
Туре	:	OP
Ref. Dr	:	MediWheel

Register On	: 28/03/2022 9:22 AM
<b>Collection On</b>	: 28/03/2022 9:45 AM
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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Stool Analysis - ROUTINE			
Colour (Stool)	Brownish		Brown
Blood (Stool)	Not present		Not present
Mucus (Stool)	Not present		Not present
Reaction (Stool)	Alkaline		Alkaline
Consistency (Stool)	Semi solid		Semi solid
Ova (Stool)	Nil		Nil
Others (Stool)	Nil		Nil
Cysts (Stool)	Nil		Nil
Trophozoites (Stool)	Nil		Nil
RBCs (Stool)	Nil	/hpf	Nil
Pus Cells (Stool)	2-4	/hpf	Nil
Macrophages (Stool)	Nil		Nil
Epithelial Cells	Nil	/hpf	Nil

(Stool)



Name	: Mr. RAVI H M	i
PID No.	: MED1110365	10
SID No.	: 712209681	
Age / Sex	: 48 Year(s) / M	ale
Туре	: OP	
Ref. Dr	: MediWheel	

Register On	:	28/03/2022 9:22 AM
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### **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

Dr Shouree K.R MBBS MD DNB Consultant Pathologist Reg No : KMC 103138

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SID No.	: 712209681	Collection On : 28/03/2022 9:45 AM	
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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<b>BIOCHEMISTRY</b>			
BUN / Creatinine Ratio	8.1		
Glucose Fasting (FBS) (Plasma - F/GOD- POD)	100	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	Nil		Nil
(Urine - F)			
Glucose Postprandial (PPBS)	167	mg/dL	70 - 140
(Plasma - PP/GOD - POD)			

#### **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.

**Remark:** kindly correlate clinically.

Urine Sugar (PP-2 hours) (Urine - PP)	Trace		Negative
<b>Remark:</b> kindly correlate clinically.			
Blood Urea Nitrogen (BUN) (Serum/Urease UV/derived)	7.3	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Jaffe Kinetic</i> )	0.9	mg/dL	0.9 - 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-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid	6.1	mg/dL	3.5 - 7.2
(Serum/Uricase/Peroxidase)			





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Name	: Mr. RAVI H M			
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Age / Sex	: 48 Year(s) / Male	Report On : 29/03/20	022 6:42 PM MEDALL	
Туре	: OP	Printed On : 30/03/20	22 8:37 AM	
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<b>IMMUNOASSAY</b>			
Prostate specific antigen - Total(PSA) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	0.516	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.



-- End of Report --

Name	RAVI H M	ID	MED111036510	
Age & Gender	48/Male	Visit Date	28-03-2022 00:00:00	
Ref Doctor Name	MediWheel	3		MEDALL

## 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** show normal shape and has clear contents. Gall bladder wall is of normal thickness. CBD is of normal calibre.

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

**SPLEEN** show normal shape, size and echopattern. No demonstrable Para-aortic lymphadenopathy.

**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	10.3	1.4
Left Kidney	10.5	1.5

**URINARY BLADDER** show normal shape and wall thickness. It has clear contents. No evidence of diverticula.

**PROSTATE** *enlarged in size*. *It measures* 3.7*x*4.0*x*4.1*cms and volume* 32*cc*. No evidence of ascites.

### **IMPRESSION:**

> **PROSTATOMEGALY.** 

CONSULTANT RADIOLOGISTS

DR. ANITHA ADARSH

**DR. MOHAN B** 

Name	RAVI H M	ID	MED111036510	$\mathbf{M}$
Age & Gender	48/Male		28-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

AA/SV

Name	RAVI H M	ID	MED111036510	M
Age & Gender	48/Male	Visit Date	28-03-2022 00:00:00	
Ref Doctor Name	MediWheel	•		MEDALL

## X – RAY CHEST PA VIEW

LUNGS:

Both lung fields are clear.

Vascular markings are normal.

Tracheal air lucency is normal.

No evidence of abnormal hilar opacities.

Costophrenic angle recesses are normal.

## CARDIA:

Cardia is normal shape and configuration.

Diaphragm, Thoracic cage, soft tissues are normal.

## **IMPRESSION**:

• NO SIGNIFICANT DIAGNOSTIC ABNORMALITY.

Name	RAVI H M	ID	MED111036510	
Age & Gender	48/Male	Visit Date	28-03-2022 00:00:00	
Ref Doctor Name	MediWheel	-		MEDALL

# **<u>2 D ECHOCARDIOGRAPHIC STUDY</u>**

# M mode measurement:

AORTA			:	3.2cms
LEFT ATRIUM			:	3.2cms
LEFT VENTRICLE	(DIASTOLE	)	:	4.7cms
(SYS	TOLE)	:	3.1cm	S
VENTRICULAR SEPTUM	(DIASTOLE)		:	0.8cms
(SYS	TOLE)	:	1.1cm	S
POSTERIOR WALL	(DIASTOLE)		:	0.8cms
(SYST	TOLE)	:	1.2cm	S
EDV			:	81ml
ESV			:	31ml
FRACTIONAL SHORTENING			:	37%
EJECTION FRACTION			:	62%
RVID			:	1.5cms

# **DOPPLER MEASUREMENTS:**

MITRAL VALVE	: E' -	0.74m/s	A' - 0.32m/s	NO MR
AORTIC VALVE	:	1.09m/s		NO AR
TRICUSPID VALVE	: E' -	0.76m/s	A' - 0.46m/s	NO TR

Name	RAVI H M	ID	MED111036510	
Age & Gender	48/Male	Visit Date	28-03-2022 00:00:00	
Ref Doctor Name	MediWheel			MEDALL

PULMONARY VALVE : 0.73m/s

NO PR

### **2D ECHOCARDIOGRAPHY FINDINGS:**

Left ventricle : Normal size, Normal systolic function. No regional wall motion abnormalities.

Left Atrium	: Normal.
Right Ventricle	: Normal.
Right Atrium	: Normal.
Mitral valve	: Normal, No mitral valve prolapsed.
Aortic valve	: Normal, Trileaflet.
Tricuspid valve	: Normal.
Tricuspid valve Pulmonary valve	: Normal. : Normal.
•	
Pulmonary valve	: Normal.

### **IMPRESSION**:

- > NORMAL SIZED CARDIAC CHAMBERS.
- > NORMAL LV SYSTOLIC FUNCTION. EF:62%.
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.

Name	RAVI H M	ID	MED111036510	M
Age & Gender	48/Male	Visit Date	28-03-2022 00:00:00	
Ref Doctor Name	MediWheel		-	MEDALL

## > NO CLOTS/ PERICARDIAL EFFUSION VEGETATION.



**DR. NIKHIL B INTERVENTIONAL CARDIOLOGIST** NB/SA