

 PID No.
 : MED111017130
 Register On
 : 12/03/2022 8:51 AM

 SID No.
 : 922015869
 Collection On
 : 12/03/2022 9:52 AM

 Age / Sex
 : 38 Year(s) / Male
 Report On
 : 13/03/2022 2:03 PM



Type : OP

Printed On : 16/03/2022 7:14 PM

Ref. Dr : MediWheel

Investigation HAEMATOLOGY	Observed Value	<u>Unit</u>	Biological Reference Interval
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	14.4	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	43.4	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	5.01	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	87.0	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	28.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	33.2	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	14.3	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	43.54	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	5800	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	48.7	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	43.2	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	1.7	%	01 - 06



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Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	5.6	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.8	%	00 - 02
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.82	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	2.51	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.10	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.32	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.05	10^3 / μl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	263	10^3 / μl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	9.4	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.25	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (EDTA Blood/Modified Westergren)	10	mm/hr	< 15



: Mr. SANTOSH KUMAR T N Name

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Ref. Dr

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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.8	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.2	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.6	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.4	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.7	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	2.7	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	1.7		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	21	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	22	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	85	U/L	53 - 128
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	13	U/L	< 55





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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	192	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	122	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)	47	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	120.6	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	24.4	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	145.0	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.





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	4.1		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/Calculated)	2.6		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	2.6		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0





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Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/HPLC)	5.8	%	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 %

Estimated Average Glucose 119.76 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 HbAlC 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 HbAlc.





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<u>Investigation</u>	<u>Observed</u>	<u>Unit</u>	<u>Biological</u>
	Value		Reference Interval

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.27 ng/mL 0.7 - 2.04

(Serum/CMIA)

INTERPRETATION:

Comment:

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Thyroxine) - Total 8.93 μg/dL 4.2 - 12.0

(Serum/CMIA)

INTERPRETATION:

Comment:

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) 1.03 µIU/mL 0.35 - 5.50

(Serum/Chemiluminescent Microparticle

Immunoassay(CMIA))

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 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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	Value		Reference Interval

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION

Colour (Urine)	Pale Yellow		
Appearance (Urine)	Clear		Clear
Volume (Urine)	15	mL	
<u>CHEMICAL EXAMINATION(Automated-Urineanalyser)</u>			
pH (Urine/AUTOMATED URINANALYSER)	6.0		4.5 - 8.0

(Urine/AUTOMATED URINANALYSER)		
Specific Gravity (Urine)	1.010	1.002 - 1.035
Ketones (Urine)	Negative	Negative
Urobilinogen (Urine/AUTOMATED URINANALYSER)	0.2	0.2 - 1.0
Blood (Urine/AUTOMATED URINANALYSER)	Negative	Negative

Nitrite Negative (Urine/AUTOMATED URINANALYSER)

Bilirubin Negative Negative

(Urine/AUTOMATED URINANALYSER)

Protein Negative Negative (Urine)

Glucose Negative Negative

DR .VANITHA.R.SWAMY MD Consultant Pathologist Reg No : 99049

(Urine)

VERIFIED BY



: Mr. SANTOSH KUMAR T N Name

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Type

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Leukocytes (Urine)	Negative	leuco/uL	Negative
MICROSCOPY(URINE DEPOSITS)			
Pus Cells (Urine/Flow cytometry)	0-2	/hpf	3-5
Epithelial Cells (Urine)	0-2	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	2-3
Others (Urine)	Nil		Nil
Casts (Urine/Flow cytometry)	Nil	/hpf	0 - 1
Crystals (Urine)	Nil		NIL

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
BUN / Creatinine Ratio	10		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	77	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.

Glucose Fasting - Urine	Negative		Negative
(Urine - F)			
Glucose Postprandial (PPBS)	112	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.

Glucose Postprandial - Urine (Urine - PP)	Negative	Negative
Blood Urea Nitrogen (BUN) (Serum/Urease-GLDH)	10 mg	g/dL 7.0 - 21
Creatinine (Serum/Jaffe Kinetic)	1.0 mg	g/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 5.9 mg/dL 3.5 - 7.2 (Serum/*Uricase/Peroxidase*)



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IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING 'O' 'Positive'

 $(\hbox{EDTA Blood} Agglutination)$



VERIFIED BY



APPROVED BY

-- End of Report --



Name	MR.SANTOSH KUMAR T N	ID	MED111017130
Age & Gender	38Y/MALE	Visit Date	12/03/2022
Ref Doctor	MediWheel		

:2:

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 prolapse.

Aortic valve : Normal, Trileaflet

Tricuspid valve : Normal.

Pulmonary valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No Pericardial effusion.

IMPRESSION:

- > NORMAL SIZED CARDIAC CHAMBERS.
- > NORMAL LV SYSTOLIC FUNCTION. EF: 65 %
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

(KINDLY CORRELATE CLINICALLY AND WITH ECG)

DR.SRIDHAR.L MD,DM,FICC. CONSULTANT CARDIOLOGIST Ls/ml

MD, (Med), DM(Cardio), FICE Interventional Cardiologist K.M.C. No.: 32248





Name	MR.SANTOSH KUMAR T N	ID	MED111017130
Age & Gender	38Y/MALE	Visit Date	12/03/2022
Ref Doctor	MediWheel		

2D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA : 3.22 cms

LEFT ATRIUM : 3.39 cms

AVS : 1.59 cms

LEFT VENTRICLE (DIASTOLE) : 4.24 cms

(SYSTOLE) : 2.78 cms

VENTRICULAR SEPTUM (DIASTOLE) : 1.31 cms

(SYSTOLE) : 1.88 cms

POSTERIOR WALL (DIASTOLE) : 1.22 cms

(SYSTOLE) : 2.65 cms

EDV: 80° ml

ESV : 29 ml

FRACTIONAL SHORTENING : 35 %

EJECTION FRACTION : 65 %

EPSS : cms

RVID : 1.55 cms

DOPPLER MEASUREMENTS

MITRAL VALVE : 'E' – 1.23m/s 'A' -1.10m/s NO MR

AORTIC VALVE :1.46 m/s NO AR

TRICUSPID VALVE : 'E' -0.68m/s 'A' - m/s NO TR

PULMONARY VALVE :0.84 m/s NO PR

Cin



Name	MR.SANTOSH KUMAR T N	ID	MED111017130
Age & Gender	38Y/MALE	Visit Date	12/03/2022
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ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in shape, size and has increased 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.

The kidney measures as follows

·	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	9.9	1.7
Left Kidney	9.2	1.8

URINARY BLADDER show normal shape and wall thickness.

It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size (wt – 20gms) and echopattern.

No evidence of ascites.

Impression: Increased hepatic echopattern suggestive of fatty infiltration

CONSULTANT RADIOLOGISTS:

DR. PRAJNA SHENOY

DR. MAHESH. M. S

DR. RADHA KRISHNA. A.

DR. HIMA BINDU.P
Ms/pu

DR. H. K. ANAND





Name	SANTOSH KUMAR T N	Customer ID	MED111017130
Age & Gender	38Y/M	Visit Date	Mar 12 2022 8:49AM
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: Essentially normal study.

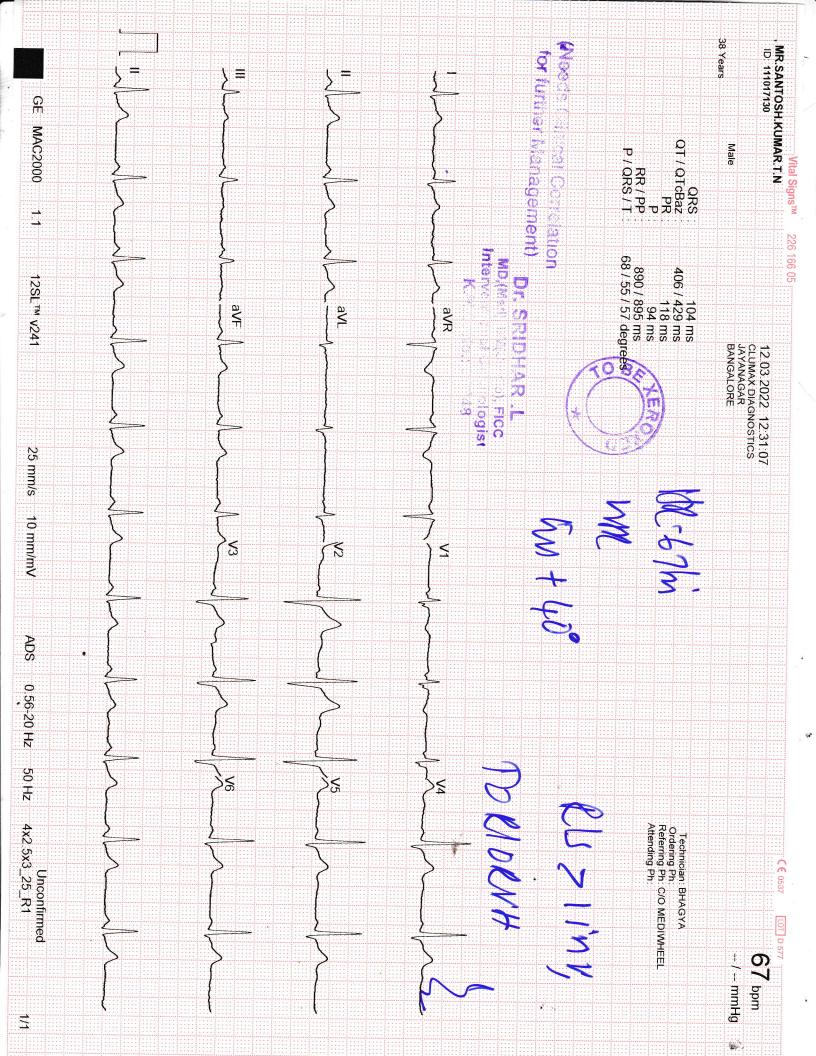
DR. H.K. ANAND

DR. SHWETHA S

DR. PRAJNA SHENOY

DR. MAHESH M S

CONSULTANT RADIOLOGISTS



Customer Name	Santhach Kerman T.A.	Customer ID	111017130.
Age & Gender	38, Male.	Visit Date	12th March 202

Eye Screening

With spectacles / without spectacles (strike out whichever is not applicable)

Right Eye

Near Vision

No Sear Vision

Right Eye

No Sear Vision

No Sear Vision

Right Eye

No Sear Vision

Observation / Comments: N 08 mm

Dan

LOSIL 'ON 'POSTOT. RAVI V. HALAKATTI NOSSUNS BAB. EYE SURGEON (HUHGO) 'S'W EYE SURGEON ILLIYMATAH 'A LAWA YARSING. NO. 11631