PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
HAEMATOLOGY			
Complete Blood Count With - ESR			
Haemoglobin (EDTA Blood/Spectrophotometry)	16.73	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	47.0	%	42 - 52
RBC Count (EDTA Blood)	5.10	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	92.2	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	32.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	35.6	g/dL	32 - 36
RDW-CV (EDTA Blood)	13.9	%	11.5 - 16.0
RDW-SD (EDTA Blood)	44.86	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	7690	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	47.73	%	40 - 75
Lymphocytes (EDTA Blood)	42.07	%	20 - 45
Eosinophils (EDTA Blood)	2.12	%	01 - 06
Monocytes (EDTA Blood)	7.40	%	01 - 10





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : 0P
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Basophils (Blood)	0.68	%	00 - 02
INTERPRETATION: Tests done on Automated Five	Part cell counter. All	abnormal results are	reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	3.67	10^3 / μl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	3.24	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.16	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.57	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood)	0.05	10^3 / μl	< 0.2
Platelet Count (EDTA Blood)	150	10^3 / μl	150 - 450
MPV (EDTA Blood)	11.92	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.18	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	5	mm/hr	< 15





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.78	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.29	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.49	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC</i>)	23.27	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	19.75	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	38.83	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	105.4	U/L	53 - 128
Total Protein (Serum/Biuret)	7.89	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	3.60	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	4.29	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	0.84		1.1 - 2.2





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	144.38	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	93.30	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)	42.89	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/Calculated)	82.8	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >=190
VLDL Cholesterol (Serum/Calculated)	18.7	mg/dL	< 30
Non HDL Cholesterol (Serum/Calculated)	101.5	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.





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	Observed Value	<u>Unit</u>	<u>Biological</u> Reference Interval
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/Calculated)	2.2		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/Calculated)	1.9		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0





APPROVED BY

 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glycosylated Haemoglobin (HbA1c)			
HbA1C (Whole Blood/ <i>HPLC</i>)	5.1	%	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 %

Estimated Average Glucose 99.67 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.





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

Printed On

Type : OP

Ref. Dr : MediWheel

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

: 27/06/2023 9:09 AM

IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total 1.44 ng/ml 0.7 - 2.04

(Serum/ECLIA)

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 (Tyroxine) - Total $6.75 \mu g/dl 4.2 - 12.0$

(Serum/ECLIA)

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) 4.06 µIU/mL 0.35 - 5.50

(Serum/ECLIA)

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.





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

InvestigationObservedUnitBiologicalValueReference Interval

CLINICAL PATHOLOGY

PHYSICAL EXAMINATION (URINE COMPLETE)

Colour Pale yellow Yellow to Amber

(Urine)

Appearance Clear Clear

(Urine)

Volume(CLU) 20

(Urine)

CHEMICAL EXAMINATION (URINE

COMPLETE)

pH 5.5 4.5 - 8.0

(Urine)

Specific Gravity 1.006 1.002 - 1.035

(Urine)

Ketone Negative Negative

(Urine)

Urobilinogen Normal Normal

(Urine)

Blood Negative Negative

(Urine)

Nitrite Negative Negative

(Urine)

Bilirubin Negative Negative

(Urine)

Protein Negative Negative

(Urine)

Glucose Negative Negative

(Urine/GOD - POD)





PID No. : MED111703325 Register On : 26/06/2023 8:51 AM : 423040591 **Collection On** : 26/06/2023 9:28 AM SID No. Age / Sex : 49 Year(s) / Male Report On : 26/06/2023 7:42 PM Type : OP **Printed On** : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

(Urine)

Investigation	Observed <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Leukocytes(CP)	Negative		
(Urine)			
<u>MICROSCOPIC EXAMINATION</u> (<u>URINE COMPLETE</u>)			
Pus Cells	0-1	/hpf	NIL
(Urine)		1	
Epithelial Cells	0-1	/hpf	NIL
(Urine)			
RBCs	Nil	/hpf	NIL
(Urine)			
Others	Nil		
(Urine)			
INTERPRETATION: Note: Done with Automated reviewed and confirmed microscopically.	Urine Analyser & Auto	mated urine sedir	mentation analyser. All abnormal reports are
Casts	Nil	/hpf	NIL
(Urine)			
Crystals	Nil	/hpf	NIL





PID No. : MED111703325

: 423040591

Age / Sex : 49 Year(s) / Male

Type : OP

SID No.

Register On : 26/06/2023 8:51 AM

Collection On : 26/06/2023 9:28 AM

Report On : 26/06/2023 7:42 PM

Printed On : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation Observed <u>Value</u>

<u>Unit</u>

Biological Reference Interval

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING

(EDTA Blood/Agglutination)

'B' 'Positive'



 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

 Type
 : OP
 Printed On
 : 27/06/2023 9:09 AM

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
BIOCHEMISTRY			
BUN / Creatinine Ratio	12.0		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	84.66	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/GOD - POD)			
Glucose Postprandial (PPBS)	130.77	mg/dL	70 - 140
(Plasma - PP/GOD-PAP)			

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 Glucose(PP-2 hours) (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/ <i>Urease UV / derived</i>)	10.8	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Modified Jaffe</i>)	0.90	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 4.93 mg/dL 3.5 - 7.2

(Serum/Enzymatic)





 PID No.
 : MED111703325
 Register On
 : 26/06/2023 8:51 AM

 SID No.
 : 423040591
 Collection On
 : 26/06/2023 9:28 AM

 Age / Sex
 : 49 Year(s) / Male
 Report On
 : 26/06/2023 7:42 PM

Printed On

Type : OP

Ref. Dr : MediWheel

InvestigationObservedUnitBiologicalValueReference Interval

: 27/06/2023 9:09 AM

IMMUNOASSAY

Prostate specific antigen - Total(PSA) 0.754 ng/ml Normal: 0.0 - 4.0

(Serum/Manometric method)

Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0
Suspicious of Malignant disease of

Prostate: > 10.0

INTERPRETATION: Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH).

Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.

PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

an the early detection of Prostate cancer.

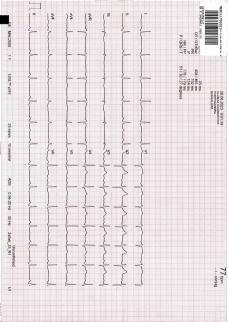
ŏAs an aid in discriminating between Prostate cancer and Benign Prostatic disease.

ðΓo detect cancer recurrence or disease progression.





-- End of Report --



Name	MR.R NAGARAJ	ID	MED111703325
Age & Gender	49Y/MALE	Visit Date	26 Jun 2023
Ref Doctor Name	MediWheel		

2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA : 3.5cms

LEFT ATRIUM : 3.3cms

AVS :----

LEFT VENTRICLE (DIASTOLE) : 4.8cms

(SYSTOLE) : 3.2cms

VENTRICULAR SEPTUM (DIASTOLE) : 0.8cms

(SYSTOLE) : 1.7cms

POSTERIOR WALL (DIASTOLE) : 1.1cms

(SYSTOLE) : 1.8cms

EDV : 110ml

ESV : 40ml

FRACTIONAL SHORTENING : 35%

EJECTION FRACTION : 64%

EPSS :---

RVID : 1.8cms

DOPPLER MEASUREMENTS:

MITRAL VALVE : E' 0.71 m/s A' 0.66 m/s NO MR

AORTIC VALVE : 1.21 m/s NO AR

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

PULMONARY VALVE : 0.94 m/s NO PR

Name	MR.R NAGARAJ	ID	MED111703325
Age & Gender	49Y/MALE	Visit Date	26 Jun 2023
Ref Doctor Name	MediWheel		

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.

Pulmonary valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No pericardial effusion.

IMPRESSION:

- > NORMAL SIZED CARDIAC CHAMBERS.
- > NORMAL LV SYSTOLIC FUNCTION. EF:64 %.
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- > NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

DR. K.S. SUBRAMANI. MBBS, MD, DM (CARDIOLOGY) FESC SENIOR CONSULTANT INTERVENTIONAL CARDIOLOGIST SRI JAYADEVA INSTITUTE OF CARDIOLOGY, BANGALORE Kss/da

Note:

^{*} Report to be interpreted by qualified medical professional.

^{*} To be correlated with other clinical findings.

Name	MR.R NAGARAJ	ID	MED111703325
Age & Gender	49Y/MALE	Visit Date	26 Jun 2023
Ref Doctor Name	MediWheel		

^{*} Parameters may be subjected to inter and intra observer variations.
*Any discrepancy in reports due to typing errors should be corrected as soon as possible.

Name	MR.R NAGARAJ	ID	MED111703325
Age & Gender	49Y/MALE	Visit Date	26 Jun 2023
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 shows 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 shows 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	9.6	1.6
Left Kidney	11.5	1.3

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

PROSTATE shows normal shape, size and echopattern. It measures 2.6 x 3.2 x 2.5cms (Vol:10cc).

No evidence of ascites / pleural effusion.

IMPRESSION:

> NO SIGNIFICANT ABNORMALITY DETECTED.

DR. APARNA CONSULTANT RADIOLOGIST A/da

Name	Mr. R NAGARAJ	Customer ID	MED111703325
Age & Gender	49Y/M	Visit Date	Jun 26 2023 8:51AM
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. APARNA

CONSULTANT RADIOLOGIST