Name:Mr. SHANMUGAVELU RAMAPID No.:MED111517890SID No.:223003081Age / Sex:59 Year(s) / MaleType:OPRef. Dr:MediWheelInvestigation	Register On : 2 Collection On : Report On : Printed On : Observed Value :	25/02/2023 8:10 AM 25/02/2023 8:55 AM 25/02/2023 3:40 PM 01/03/2023 1:40 PM <u>Unit</u>	Biological Reference Interval
BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination) INTERPRETATION: Reconfirm the Blood gr <u>Complete Blood Count With - ESR</u>	'O' 'Positive' roup and Typing befor	e blood transfusion	
Haemoglobin (EDTA Blood/Spectrophotometry)	14.4	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)		% mill/cu.mm	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	4.82	mil/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood/Derived from Impedance)	90.3	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood/Derived from Impedance)	29.9	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)	12.9	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	41.7	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	9090	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	63.9	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	21.3	%	20 - 45
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	7.3	%	01 - 06
Dr S SIVAKUMAR Ph.D Consultant Microbiologist VERIFIED BY			Dr Gurupriya J Pathologist Reg No: 13-48036

APPROVED BY

The results pertain to sample tested.

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Name	:	Mr. SHANMUGAVELU RAMAN
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PID No.	: MED111517890	Register On : 25/02/2023 8:10 AM
SID No.	: 223003081	Collection On : 25/02/2023 8:55 AM
Age / Sex	: 59 Year(s) / Male	Report On : 25/02/2023 3:40 PM
Туре	: OP	Printed On : 01/03/2023 1:40 PM
Ref. Dr	: MediWheel	



Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	6.7	%	01 - 10
Basophils (EDTA Blood/Impedance Variation & Flow Cytometry)	0.8	%	00 - 02
INTERPRETATION: Tests done on Automated	l Five Part cell count	er. All abnormal results a	re reviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	5.80	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.93	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood/Impedance Variation & Flow Cytometry)	0.67	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.61	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)	255	10^3 / µl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	12.0	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.305	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Blood/Automated - Westergren method)	4	mm/hr	< 20
BUN / Creatinine Ratio	9.7		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	128.0	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125







Diabetic: ≥ 126

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The results pertain to sample tested.

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Name : Mr. SHANMUGAVELU RAM	AN		
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SID No. : 223003081	Collection On : 2	5/02/2023 8:55 AM	
Age / Sex : 59 Year(s) / Male	Report On : 2	25/02/2023 3:40 PM	medall
Type : OP	Printed On : (1/03/2023 1:40 PM	DIAGNOSTICS
Ref. Dr : MediWheel			
Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
INTERPRETATION: Factors such as type, q blood glucose level.	uantity and time of food	l intake, Physical activit	y, Psychological stress, and drugs can influence
Glucose, Fasting (Urine) (Urine - F/GOD - POD)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	130.6	mg/dL	70 - 140
INTERPRETATION: Factors such as type, quantity and time of food Fasting blood glucose level may be higher than resistance, Exercise or Stress, Dawn Phenomer	n Postprandial glucose,	because of physiological	surge in Postprandial Insulin secretion, Insulin
Urine Glucose(PP-2 hours) (Urine - PP)	Negative		Negative
Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	9.3	mg/dL	7.0 - 21
Creatinine (Serum/ <i>Modified Jaffe</i>)	0.95	mg/dL	0.9 - 1.3
INTERPRETATION: Elevated Creatinine va ingestion of cooked meat, consuming Protein/ such as cefoxitin, cefazolin, ACE inhibitors, an etc.	Creatine supplements, l	Diabetic Ketoacidosis, pi	
Uric Acid (Serum/ <i>Enzymatic</i>)	4.6	mg/dL	3.5 - 7.2
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.93	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.21	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.72	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC)</i>	19.9	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/ <i>Modified IFCC</i>)) 22.2	U/L	5 - 41
Dr S SIVAKUMAR Ph.D Consultant Microbiologist VERIFIED BY			Dr Gurupriya J Pathologist Reg No: 13-48036
			APPROVED BY
The results pertain to sample tested		Pa	ne 3 of 8

The results pertain to sample tested.

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Age / Sex	: 59 Year(s) / Male	Report On	: 25/02/2023 3:40 PM	med
Туре	: OP	Printed On	: 01/03/2023 1:40 PM	DIAGNO
Ref. Dr	: MediWheel			

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	14.9	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/ <i>Modified IFCC</i>)	59.2	U/L	56 - 119
Total Protein (Serum/ <i>Biuret</i>)	6.90	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.15	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.75	gm/dL	2.3 - 3.6
A : G RATIO (Serum/ <i>Derived</i>)	1.51		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	158.3	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	178.0	mg/dL	Optimal: < 150 Borderline: 150 - 199

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)	38.0	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
Dr S SIVAKUMAR Ph.D Consultant Microbiologist VERIFIED BY			Dr Gurupriya J Pathologist Reg No: 13-48036 APPROVED BY

The results pertain to sample tested.

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High: 200 - 499 Very High: >= 500

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Age / Sex	: 59 Year(s) / Male	Report On	: 25/02/2023 3:40 PM	medall		
Туре	: OP	Printed On	: 01/03/2023 1:40 PM	DIAGNOSTICS		

Ref. Dr : MediWheel

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
LDL Cholesterol (Serum/ <i>Calculated</i>)	84.7	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	35.6	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i>)	120.3	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>)	4.2		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>)	4.7		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/ <i>Calculated</i>)	2.2		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>)	7.2	%	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 %



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Туре	: OP		1/03/2023 1:40 PM	DIAGNOSTICS
Ref. Dr	: MediWheel	••••		
<u>Investiga</u>	<u>ition</u>	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Estimated (Whole Blo	d Average Glucose	159.94	mg/dL	
HbA1c pro control as o Conditions hypertrigly Conditions	compared to blood and urinary gluco that prolong RBC life span like Iron cceridemia,hyperbilirubinemia,Drugo	ose determinations. n deficiency anemia, Vit s, Alcohol, Lead Poison e or chronic blood loss,	tamin B12 & Folate def ing, Asplenia can give f hemolytic anemia, Hen	
	specific antigen - Total(PSA) nometric method)	0.69	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
<u>THYROI</u> T3 (Triio	ETATION: REMARK : PSA alone DPROFILE / TFT dothyronine) - Total emiluminescent Immunometric Assay	should not be used as a 0.86	n absolute indicator of ng/ml	malignancy. 0.4 - 1.81
INTERPR Comment	ariation can be seen in other condition	n like pregnancy, drugs	, nephrosis etc. In such	cases, Free T3 is recommended as it is
-	xine) - Total emiluminescent Immunometric Assay	6.08	µg/dl	4.2 - 12.0
Comment	ariation can be seen in other condition	n like pregnancy, drugs	, nephrosis etc. In such	cases, Free T4 is recommended as it is
TSH (Th	yroid Stimulating Hormone) emiluminescent Immunometric Assay	4.90	µIU/mL	0.35 - 5.50
	S SIVAKUMAR Ph.D nsultant Microbiologist			Dr Gurupriya J Pathologist Reg No: 13-48036 APPROVED BY

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Туре	: OP	Printed On	: 01/03/2023 1:40 PM	DIAGNOSTICS
Ref. Dr	: MediWheel			

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

Urine Analysis - Routine

COLOUR (Urine)	Pale yellow		Yellow to Amber
APPEARANCE (Urine)	Clear		Clear
Protein (Urine/Protein error of indicator)	Negative		Negative
Glucose (Urine/GOD - POD)	Negative		Negative
Pus Cells (Urine/Automated Flow cytometry)	Occasional	/hpf	NIL
Epithelial Cells (Urine/Automated ⁻ Flow cytometry)	Occasional	/hpf	NIL
RBCs (Urine/Automated Flow cytometry)	NIL	/hpf	NIL
Casts (Urine/Automated ⁻ Flow cytometry)	NIL	/hpf	NIL
Crystals (Urine/Automated Flow cytometry)	NIL	/hpf	NIL
Others (Urine)	NIL		

INTERPRETATION: Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.







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Туре	: OP	Printed On : 01		DIAGNOSTICS
Ref. Dr	: MediWheel			

-- End of Report --



Name	Mr.SHANMUGAVELU RAMAN	ID	MED111517890
Age & Gender	59/MALE	Visit Date	25/02/2023
Ref Doctor Name	MediWheel		

ACOUSTIC WINDOW : GOOD

DEPARTMENT OF CARDIOLOGY

TRANSTHORACIC RESTING ECHO CARDIOGRAPHY REPORT

ECHO INDICATION: Assessment <u>M MODE & 2-D PARAMETERS</u>:

LV STUDY			
IVS(d) cm	1.1		
IVS(s) cm	1.0		
LPW(d) cm	1.0		
LPW(s) cm	1.3		
LVID(d) cm	4.6		
LVID(s) cm	2.7		
EDV ml	98		
ESV ml	20		
SV ml	78		
EF %	79		
FS %	41		
Parameters	Patient		
	Value		
LA cm	2.9		
AO cm	2.3		

Valves	Velocity max(m/sec mm/Hg)
AV	1.2
PV	0.9
MV (E)	1.0
((A)	0.7
TV	1.0

REPORT DISCLAIMER

- 1. This is only a radiologincal imperssion. Like other investigations, radiological investication also have limitation. Therefore radiologincal reports should be interpreted in correlation with clinical and pathological findings.
- 2. The results reported here in are subject to interpretation by qualified medical professionals only.
- 3.Customer identities are accepted provided by the customer or their representative.
- 4.information about the customer's condition at the time of sample collection such as fasting, food consumption, medication, etc are accepted as provided by the customer or representative and shall not be investigated for its truthfulness.
- 5.If any specimen/sample is received from any others laboratory/hospital,its is presumed that the sample belongs to the patient identified or named.
- 6.Test results should be interpreted in context of clinical and other findings if any.In case of any clarification /doubt , the refrering doctor/patient can contact the respective section head of the laboratory.

7.Results of the test are influenced by the various factors such as sensitivity, specificity of the procedures of the tests, quality of the samples and drug interactions etc.,

8.If the test results are found not to be correlating clinically can contact the lab in charge for clarification or retesting where practicable within 24 hours from the time of issue of results.

9.Liability is limited to the extend of amount billed.

10.Reports are subject to interpretation in their entirety.partial or selective interpretation may lead to false opinion.

11.Disputes, if any, with regard to the report findings are subject to the exclusive jurisdiction of the competent courts chennai only.

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Name	Mr.SHANMUGAVELU RAMAN	ID	MED111517890
Age & Gender	59/MALE	Visit Date	25/02/2023
Ref Doctor Name	MediWheel		

FINDINGS:

- ♦ Normal left ventricle systolic function (LVEF 79 %).
- ✤ No regional wall motion abnormality.
- * No diastolic dysfunction.
- * Normal chambers dimension.
- ***** Structurally valves are normal.
- ✤ Normal pericardium / Intact septae.
- ✤ No clot/aneurysm.
- ***** IVC~1.0 cm /collapsing.

IMPRESSION:

- NORMAL LV SYSTOLIC FUNCTION.
- **NO REGIONAL WALL MOTION ABNORMALITY.**

M.JOTHEESWARI. ECHO TECHNOLOGIST

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