Name	: Mr. ANSHU KUMAR		
PID No.	: MED111017378	Register On : 12/03/2022 10:03 AM	\mathbf{C}
SID No.	: 422019555	Collection On : 12/03/2022 10:59 AM	
Age / Sex	: 38 Year(s) / Male	Report On : 14/03/2022 1:49 PM	MEDALL
Туре	: OP	Printed On : 18/03/2022 6:49 PM	
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
HAEMATOLOGY			
<u>Complete Blood Count With - ESR</u>			
Haemoglobin (EDTA Blood'Spectrophotometry)	12.1	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood/Derived from Impedance)	38.0	%	42 - 52
RBC Count (EDTA Blood/Impedance Variation)	4.37	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)	27.8	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood/Derived from Impedance)	31.9	g/dL	32 - 36
RDW-CV (EDTA Blood/Derived from Impedance)	16.0	%	11.5 - 16.0
RDW-SD (EDTA Blood/Derived from Impedance)	48.72	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood/Impedance Variation)	6900	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood/Impedance Variation & Flow Cytometry)	63.3	%	40 - 75
Lymphocytes (EDTA Blood/Impedance Variation & Flow	25.6	%	20 - 45



Cytometry)



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Eosinophils (EDTA Blood/Impedance Variation & Flow Cytometry)	3.1	%	01 - 06
Monocytes (EDTA Blood/Impedance Variation & Flow Cytometry)	7.2	%	01 - 10
Basophils (Blood/Impedance Variation & Flow Cytometry)	0.8	%	00 - 02
Absolute Neutrophil count (EDTA Blood'Impedance Variation & Flow Cytometry)	4.37	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	1.77	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood'Impedance Variation & Flow Cytometry)	0.21	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.50	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood/Impedance Variation & Flow Cytometry)	0.06	10^3 / µl	< 0.2
Platelet Count (EDTA Blood/Impedance Variation)	150	10^3 / µl	150 - 450
MPV (EDTA Blood/Derived from Impedance)	12.7	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.19	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood/ <i>Modified Westergren</i>)	11	mm/hr	< 15





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Туре	: OP	Printed On : 18/03/2022 6:49	PM
Ref. Dr	: MediWheel		

Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/Diazotized Sulfanilic Acid)	0.7	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.3	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.4	mg/dL	0.1 - 1.0
Total Protein (Serum/Biuret)	7.3	gm/dL	6.0 - 8.0
Albumin (Serum/Bromocresol green)	5.0	gm/dL	3.5 - 5.2
Globulin (Serum/Derived)	2.3	gm/dL	2.3 - 3.6
A : G Ratio (Serum/Derived)	2.2		1.1 - 2.2
SGOT/AST (Aspartate Aminotransferase) (Serum/IFCC Kinetic)	74	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/IFCC / Kinetic)	138	U/L	5 - 41
Alkaline Phosphatase (SAP) (Serum/IFCC Kinetic)	128	U/L	53 - 128
GGT(Gamma Glutamyl Transpeptidase) (Serum/SZASZ standarised IFCC)	50	U/L	< 55





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Lipid Profile			
Cholesterol Total (Serum/Cholesterol oxidase/Peroxidase)	174	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/Glycerol phosphate oxidase / peroxidase)	126	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)	36	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/ <i>Calculated</i>)	112.8	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	25.2	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i>)	138.0	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >=220





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
INTERPRETATION: 1.Non-HDL Cholesterol is now 2.It is the sum of all potentially atherogenic proteins in co-primary target for cholesterol lowering therapy.	•		
Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	4.8		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>)	3.5		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
LDL/HDL Cholesterol Ratio (Serum/ <i>Calculated</i>)	3.1		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

DR.VANITHAR.SWAMY MD Consultant Pathologist Reg No : 99049 VERIFIED BY



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Investigation	<u>Observed</u>	<u>Unit</u>	<u>Biological</u>
Glycosylated Haemoglobin (HbA1c)	<u>Value</u>		<u>Reference Interval</u>
HbA1C (Whole Blood/ <i>HPLC</i>)	6.2	%	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 %

Estimated Average Glucose	131.24	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> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
IMMUNOASSAY			
<u>THYROID PROFILE / TFT</u>			
T3 (Triiodothyronine) - Total (Serum/ <i>CMIA</i>) INTERPRETATION: Comment : Total T3 variation can be seen in other condition like preg	1.28 mancy, drugs, neph	ng/mL rosis etc. In such case	0.7 - 2.04 es, Free T3 is recommended as it is
Metabolically active. T4 (Thyroxine) - Total	12.48	µg/dL	4.2 - 12.0
(Serum/CMIA)	12010	MB, 022	
INTERPRETATION: Comment : Total T4 variation can be seen in other condition like preg Metabolically active.	nancy, drugs, neph	rosis etc. In such case	es, Free T4 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/Chemiluminescent Microparticle Immunoassay(CMIA))	4.34	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 Iodi 2.TSH Levels are subject to circadian variation, reaching	peak levels betwee	n 2-4am and at a min	imum between 6-10PM. The variation can be
of the order of 50%, hence time of the day has influence of			

of the order of 50%, hence time of the day has influence on the measured serum TSH concentrations. 3. Values&lt, 0.03 μ IU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
CLINICAL PATHOLOGY			
PHYSICAL EXAMINATION			
Colour (Urine)	Pale Yellow		
Appearance (Urine)	Clear		Clear
Volume (Urine)	25	mL	
<u>CHEMICAL EXAMINATION(Automated-</u> <u>Urineanalyser)</u>			
pH (Urine/ <i>AUTOMATED URINANALYSER)</i>	6.5		4.5 - 8.0
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 (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Bilirubin (Urine/AUTOMATED URINANALYSER)	Negative		Negative
Protein (Urine)	Negative		Negative





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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
Glucose (Urine)	Negative		Negative
Leukocytes (Urine)	Negative	leuco/uL	Negative
<u>MICROSCOPY(URINE DEPOSITS)</u>			
Pus Cells (Urine/Flow cytometry)	1-2	/hpf	3-5
Epithelial Cells (Urine)	1-2	/hpf	1-2
RBCs (Urine/Flow cytometry)	Nil	/hpf	2-3
Others (Urine)	Nil		Nil
Casts (Urine/ <i>Flow cytometry</i>)	Nil	/hpf	0 - 1
Crystals (Urine)	Nil		NIL





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Investigation

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)

'O' 'Positive'

Observed

<u>Value</u>

<u>Unit</u>



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Biological Reference Interval

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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	13		6 - 22
Glucose Fasting (FBS) (Plasma - F/GOD - POD)	95	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)	119 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)	13 mg/dL	7.0 - 21
Creatinine	1.0 mg/dI	0.9 - 1.3

(Serum/Jaffe Kinetic)

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	9.0	mg/dL	3.5 - 7.2
(Serum/Uricase/Peroxidase)			





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-- End of Report --

Name	ANSHU KUMAR	ID	MED111017378	M
Age & Gender	38/Male	Visit Date	12-03-2022 00:00:00	
Ref Doctor Name	MediWheel		-	MEDALL

2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA			: 2.7cms
LEFT ATRIUM			: 3.0cms
			. 5.001115
AVS			:
LEFT VENTRICLE	(DIASTOLE))	: 3.6cms
(SYS	STOLE)	: 2.5cm	ns
VENTRICULAR SEPTUM	(DIASTOLE)		: 0.8cms
(SYS	STOLE)	: 1.2cm	ns
POSTERIOR WALL	(DIASTOLE)		: 0.9cms
(SYS	TOLE)	: 1.2cm	ns
EDV			: 53ml
ESV			: 21ml
FRACTIONAL SHORTENI	NG		: 31%
EJECTION FRACTION			: 60%
EPSS			:
RVID			: 2.2cms

DOPPLER MEASUREMENTS:

MITRAL VALVE	: E' 0.56 m/s	A' 0.75 m/s	NO MR
AORTIC VALVE	: 0.90 m/s		NO AR
TRICUSPID VALVE	: E' 1.84 m/s	A' - m/s	NO TR
PULMONARY VALVE	: 0.61 m/s		NO PR

Name	ANSHU KUMAR	ID	MED111017378	
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Ref Doctor Name	MediWheel		-	MEDALL

2D ECHOCARDIOGRAPHY FINDINGS:

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

> LV DIASTOLIC DYSFUNCTION.

> NORMAL SIZED CARDIAC CHAMBERS.

> NORMAL LV SYSTOLIC FUNCTION. EF: 60%.

> NO REGIONAL WALL MOTION ABNORMALITIES.

- > NORMAL VALVES.
- > NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

Name	ANSHU KUMAR	ID	MED111017378	
Age & Gender	38/Male	Visit Date	12-03-2022 00:00:00	
Ref Doctor Name	MediWheel		-	MEDALL

DR. K.S. SUBRAMANI. MBBS, MD, DM (CARDIOLOGY) FESC SENIOR CONSULTANT INTERVENTIONAL CARDIOLOGIST Kss/an

- **<u>Note:</u>** * Report to be interpreted by qualified medical professional. * To be correlated with other clinical findings.
- * Parameters may be subjected to inter and intra observer variations.

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Age & Gender	38/Male	Visit Date	12-03-2022 00:00:00	
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ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in size and shows diffuse fatty changes. 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. Spleen measures 12.5cms in long axis and 5.5cms in short axis.

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	9.8	1.2
Left Kidney	10.3	1.4

URINARY BLADDER is partially distended. It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size and echopattern. It measures 3.6 x 3.4 x 3.5cms (Vol:23cc).

No evidence of ascites / pleural effusion.

IMPRESSION:

> FATTY LIVER.

DR. H.K. ANAND CONSULTANT RADIOLOGISTS DR. MEERA S

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Ref Doctor Name	MediWheel		-	M



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Age & Gender	38/Male	Visit Date	12-03-2022 00:00:00	
Ref Doctor Name	MediWheel	•	•	MEDALL

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.