

Name	: Mr. Utpal Dutta	
PID No.	: MED111453893	Register On : 14/01/2023 10:43 AM
SID No.	: 423002307	Collection On : 14/01/2023 12:53 PM
Age / Sex	: 40 Year(s) / Male	Report On : 14/01/2023 6:53 PM
Туре	: OP	Printed On : 20/01/2023 8:53 AM
Ref. Dr	: MediWheel	

Investigation HAEMATOLOGY	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> <u>Reference Interval</u>
<u>Complete Blood Count With - ESR</u>			
Haemoglobin (EDTA Blood/Spectrophotometry)	15.5	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	47.7	%	42 - 52
RBC Count (EDTA Blood)	5.71	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	83.5	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	27.1	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	32.5	g/dL	32 - 36
RDW-CV (EDTA Blood)	12.9	%	11.5 - 16.0
RDW-SD (EDTA Blood)	37.70	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	7800	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	67.2	%	40 - 75
Lymphocytes (EDTA Blood)	25.1	%	20 - 45
Eosinophils (EDTA Blood)	1.7	%	01 - 06
Monocytes (EDTA Blood)	5.5	%	01 - 10



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Basophils (Blood)	0.5	%	00 - 02
INTERPRETATION: Tests done on Automated Five	Part cell counter. All	abnormal results are r	eviewed and confirmed microscopically.
Absolute Neutrophil count (EDTA Blood)	5.24	10^3 / µl	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	1.96	10^3 / µl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.13	10^3 / µl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.43	10^3 / µl	< 1.0
Absolute Basophil count (EDTA Blood)	0.04	10^3 / µl	< 0.2
Platelet Count (EDTA Blood)	192	10^3 / µl	150 - 450
MPV (EDTA Blood)	9.2	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.18	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate)	11	mm/hr	< 15

(Citrated Blood)



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BIOCHEMISTRY			
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.33	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.14	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.19	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/ <i>Modified IFCC</i>)	39.71	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/ <i>Modified IFCC</i>)	39.71	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	38.04	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/ <i>Modified IFCC</i>)	107.3	U/L	53 - 128
Total Protein (Serum/Biuret)	7.84	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.80	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	3.04	gm/dL	2.3 - 3.6
A : G RATIO	1.58		1.1 - 2.2

(Serum/Derived)

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	Biological Reference Interval
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	229.30	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	141.53	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)	40.39	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
LDL Cholesterol (Serum/ <i>Calculated</i>)	160.6	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
VLDL Cholesterol (Serum/Calculated)	28.3	mg/dL	< 30
Non HDL Cholesterol (Serum/ <i>Calculated</i>)	188.9	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220



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INTERPRETATION: 1.Non-HDL Cholesterol is nov 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)	5.7		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>)	4		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0

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<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/ <i>HPLC</i>)	6.2	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5
		71 0.0 % D	0.1.0

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 %, Fair control : 7.1 - 8.0 %, Poor control \geq 8.1 %

Estimated Average Glucose	131.24	mg/dL
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(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 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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Investigation	<u>Observed</u> Value	<u>Unit</u>	Biological Reference Interval
IMMUNOASSAY			
<u>THYROID PROFILE / TFT</u>			
T3 (Triiodothyronine) - Total (Serum/ <i>ECLIA</i>) INTERPRETATION:	1.48	ng/ml	0.7 - 2.04
Comment : Total T3 variation can be seen in other condition like preg Metabolically active.	nancy, drugs, nepł	nrosis etc. In such case	s, Free T3 is recommended as it is
T4 (Tyroxine) - Total (Serum/ <i>ECLIA</i>)	8.22	µg/dl	4.2 - 12.0
INTERPRETATION: Comment : Total T4 variation can be seen in other condition like preg Metabolically active.	nancy, drugs, nepł	nrosis etc. In such case	s, Free T4 is recommended as it is
TSH (Thyroid Stimulating Hormone) (Serum/ECLIA)	17.33	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 Iodin 2.TSH Levels are subject to circadian variation, reaching jo of the order of 50%,hence time of the day has influence of	peak levels betwee	n 2-4am and at a mini	mum between 6-10PM. The variation can be

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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CLINICAL PATHOLOGY			
<u>PHYSICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>			
Colour (Urine)	Pale yellow		Yellow to Amber
Appearance (Urine)	Clear		Clear
Volume(CLU) (Urine)	25		
<u>CHEMICAL EXAMINATION (URINE</u> <u>COMPLETE)</u>			
pH (Urine)	5.5		4.5 - 8.0
Specific Gravity (Urine)	1.011		1.002 - 1.035
Ketone (Urine)	Negative		Negative
Urobilinogen (Urine)	Normal		Normal
Blood (Urine)	Negative		Negative
Nitrite (Urine)	Negative		Negative
Bilirubin (Urine)	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/GOD - POD)	Negative		Negative
Leukocytes(CP) (Urine)	Negative		Negative
<u>MICROSCOPIC EXAMINATION</u> (URINE COMPLETE)			
Pus Cells (Urine)	0-1	/hpf	NIL
Epithelial Cells (Urine)	0-1	/hpf	NIL
RBCs (Urine)	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.

Casts (Urine)	NIL	/hpf	NIL
Crystals (Urine)	NIL	/hpf	NIL

1 shall Dr Anusha.K.S Sr.Consultant Pathologist Reg No : 100674 APPROVED BY

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Investigation

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING (EDTA Blood/Agglutination)

'B' 'Positive'

<u>Observed</u> <u>Value</u>

Dr Anusha.K.S Sr.Consultant Pathologist

<u>Unit</u>

Biological Reference Interval

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Investigation	<u>Observed</u> <u>Value</u>	<u>Unit</u>	<u>Biological</u> Reference Interval
BIOCHEMISTRY	value		<u>Nelelence interval</u>
BUN / Creatinine Ratio	22		6.0 - 22.0
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	105.82	mg/dL	70 - 140
INTERPRETATION: Factors such as type, quantity and time of food intake, Fasting blood glucose level may be higher than Postpr resistance, Exercise or Stress, Dawn Phenomenon, Son	andial glucose, becaus	e of physiological su	rge in Postprandial Insulin secretion, Insulin
Urine Glucose(PP-2 hours)	Negative		Negative
(Urine - PP) Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	17.6	mg/dL	7.0 - 21

Creatinine

(Serum/Modified Jaffe)

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.

0.78

mg/dL

Uric Acid	5.13	mg/dL	3.5 - 7.2
(Serum/ <i>Enzymatic</i>)			

1	usting killism
0	

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0.9 - 1.3

-- End of Report --

Name	MR.UTPAL DUTTA	ID	MED111453893
Age & Gender	40Y/MALE	Visit Date	14 Jan 2023
Ref Doctor Name	MediWheel	-	

2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

		: 2.7cms
		: 3.2cms
		:
(DIASTOLE))	: 4.3cms
TOLE)	: 2.9cm	ns
(DIASTOLE)		: 0.8cms
TOLE)	: 1.1cm	ns
(DIASTOLE)		: 0.9cms
TOLE)	: 1.4cm	ns
		: 81ml
		: 33ml
NG		: 32%
		: 60%
		:
		: 1.96cms
	TOLE) (DIASTOLE) TOLE) (DIASTOLE)	(DIASTOLE) TOLE) : 1.1cm (DIASTOLE) FOLE) : 1.4cm

DOPPLER MEASUREMENTS:

MITRAL VALVE	: E' 0.66 m/s	A' 0.58 m/s	NO MR
AORTIC VALVE	: 0.98 m/s		NO AR
TRICUSPID VALVE	: E' - m/s	A' - m/s	NO TR
PULMONARY VALVE	: 0.76 m/s		NO PR

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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 LV SYSTOLIC FUNCTION. EF: 60%.
- > NO REGIONAL WALL MOTION ABNORMALITIES.
- > NORMAL VALVES.
- > NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.

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

Note:

* Report to be interpreted by qualified medical professional.

> NORMAL SIZED CARDIAC CHAMBERS.

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* To be correlated with other clinical findings.
* 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.

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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	10.0	1.5
Left Kidney	9.5	1.6

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 3.0 x 2.9 x 3.3cms (Vol:15cc).

No evidence of ascites / pleural effusion.

IMPRESSION:

> NO SIGNIFICANT ABNORMALITY DETECTED.

DR. APARNA CONSULTANT RADIOLOGIST A/vp

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Age & Gender	40Y/MALE	Visit Date	14 Jan 2023
Ref Doctor Name	MediWheel		

Name	Utpal Dutta	Customer ID	MED111453893
Age & Gender	40Y/M	Visit Date	Jan 14 2023 10:42AM
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:

• No significant abnormality detected.

DR. APARNA CONSULTANT RADIOLOGIST