Name : Mr. KUMAR BIRENDRA Register On : 13/01/2024 10:39 AM

: 522400739 Report On : 13/01/2024 7:57 PM

Ref. Dr : MediWheel Type : OP

Source : MediWheel

SID No.

REPORT

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

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh 'B' 'Positive'

TYPING (EDTA Blood/Agglutination)

INTERPRETATION: Note: Slide method is screening method. Kindly confirm with Tube method for transfusion.



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REPORT				
<u>Investigation</u>	Observed Value	<u>Unit</u>	Biological Reference Interval	
HAEMATOLOGY				
Complete Blood Count With - ESR				
Haemoglobin (EDTA Blood/ Spectrophotometry)	14.7	g/dL	13.5 - 18.0	
Packed Cell Volume (PCV)/Haematocrit (EDTA Blood)	44.5	%	42 - 52	
RBC Count (EDTA Blood)	5.14	mill/cu.mm	4.7 - 6.0	
Mean Corpuscular Volume(MCV) (EDTA Blood)	86.5	fL	78 - 100	
Mean Corpuscular Haemoglobin (MCH) (EDTA Blood)	28.7	pg	27 - 32	
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	33.2	g/dL	32 - 36	
RDW-CV	15.1	%	11.5 - 16.0	
RDW-SD	45.72	fL	39 - 46	
Total Leukocyte Count (TC) (EDTA Blood)	5700	cells/cu.mm	4000 - 11000	
Neutrophils (Blood)	45.5	%	40 - 75	
Lymphocytes (Blood)	42.5	%	20 - 45	
Eosinophils (Blood)	3.6	%	01 - 06	
Monocytes (Blood)	7.1	%	01 - 10	
Basophils (Blood)	1.3	%	00 - 02	
INTERPRETATION: Tests done on Automated microscopically.	d Five Part cell counter. Al	l abnormal resu	Its are reviewed and confirmed	
Absolute Neutrophil count (EDTA	2.59	10^3 / µl	1.5 - 6.6	



Blood)

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REPORT

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Absolute Lymphocyte Count (EDTA Blood)	2.42	10^3 / μl	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.21	10^3 / μl	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.40	10^3 / μl	< 1.0
Absolute Basophil count (EDTA Blood)	0.07	10^3 / μl	< 0.2
Platelet Count (EDTA Blood)	152	10^3 / μl	150 - 450
MPV (Blood)	12.3	fL	7.9 - 13.7
PCT(Automated Blood cell Counter)	0.19	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citrated Blood)	11	mm/hr	< 15



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REPORT

<u>Investigation</u>	Observed Value Unit	<u>Biological Reference</u> <u>Interval</u>
BIOCHEMISTRY		
BUN / Creatinine Ratio	13.7	6.0 - 22.0

Glucose Fasting (FBS) (Plasma - F/ 89.15 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) (Urine - F/ Negative Negative GOD - POD)

Glucose Postprandial (PPBS) 126.61 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/ Urease UV / derived)	13.5	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	0.98	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 (Serum/Enzymatic)	6.56	mg/dL	3.5 - 7.2
Liver Function Test			
Bilirubin(Total) (Serum/DCA with ATCS)	0.35	mg/dL	0.1 - 1.2



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Investigation	Observed Value	<u>Unit</u>	Biological Reference Interval
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.17	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.18	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	30.22	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	52.02	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	21.22	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	104.5	U/L	53 - 128
Total Protein (Serum/Biuret)	7.45	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.90	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.55	gm/dL	2.3 - 3.6
A: GRATIO (Serum/Derived)	1.92		1.1 - 2.2
<u>Lipid Profile</u>			
Cholesterol Total (Serum/CHOD-PAP with ATCS)	250.60	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
Triglycerides (Serum/GPO-PAP with ATCS)	173.78	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500



Register On Name : Mr. KUMAR BIRENDRA : 13/01/2024 10:39 AM

PID No. Collection On : 13/01/2024 1:32 PM : MED122401538 SID No.

: 522400739 Report On : 13/01/2024 7:57 PM Age / Sex : 44 Year(s) / Male : 16/01/2024 1:12 PM **Printed On**

Ref. Dr : MediWheel : OP **Type**

Source : MediWheel

REPORT

Investigation Observed Value Unit Biological Reference Interval

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 husual+Acirculating level of triglycerides during most part of the day.

Optimal(Negative Risk Factor): >= 60 mg/dL HDL Cholesterol (Serum/

Borderline: 40 - 59 Immunoinhibition) High Risk: < 40

Optimal: < 100 mg/dL LDL Cholesterol (Serum/Calculated) 170.9

Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190

< 30 34.8 mg/dL VLDL Cholesterol (Serum/Calculated)

Optimal: < 130 Non HDL Cholesterol (Serum/ 205.7 mg/dL

Above Optimal: 130 - 159 Calculated)

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 5.6

Low Risk: 3.4 - 4.4 Ratio (Serum/Calculated) Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0

High Risk: > 11.0

Optimal: < 3.3

Triglyceride/HDL Cholesterol Ratio 3.9 Optimal: < 2.5

Mild to moderate risk: 2.5 - 5.0 (TG/HDL) (Serum/Calculated)

High Risk: > 5.0



Register On : 13/01/2024 10:39 AM Name : Mr. KUMAR BIRENDRA

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REPORT

Investigation Observed Value Unit Biological Reference Interval

LDL/HDL Cholesterol Ratio (Serum/

Calculated)

SID No.

Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0

High Risk: > 6.0

Glycosylated Haemoglobin (HbA1c)

% Normal: 4.5 - 5.6 HbA1C (Whole Blood/HPLC) 6.0 Prediabetes: 5.7 - 6.4

3.8

Diabetic: >= 6.5

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

125.5 mg/dL Estimated Average Glucose (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 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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Age / Sex

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IMMUNOASSAY

Prostate specific antigen - Total(PSA) 0.237 ng/ml Normal: 0.0 - 4.0

Inflammatory & Non Malignant (Serum/Manometric method)

conditions of Prostate & genitourinary

system: 4.01 - 10.0

Suspicious of Malignant disease of

Prostate: > 10.0

: 16/01/2024 1:12 PM

THYROID PROFILE / TFT

0.7 - 2.04T3 (Triiodothyronine) - Total (Serum/ 0.805 ng/ml

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.

µg/dl 4.2 - 12.0T4 (Tyroxine) - Total (Serum/ECLIA) 4.37

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) 2.64 µIU/mL 0.35 - 5.50

(Serum/ECLIA)



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Observed Value Unit Biological Reference Interval

INTERPRETATION:

Investigation

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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REPORT

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

CLINICAL PATHOLOGY

URINE ROUTINE

PHYSICAL EXAMINATION (URINE **COMPLETE**)

Yellow to Amber Colour (Urine) Yellow

Clear Clear Appearance (Urine)

Volume(CLU) (Urine) 20

CHEMICAL EXAMINATION (URINE COMPLETE)

4.5 - 8.0 5.5 pH (Urine) Specific Gravity (Urine) 1.013 1.002 - 1.035 Negative Ketone (Urine) Negative

Normal Normal Urobilinogen (Urine) Negative Blood (Urine) Negative Negative Nitrite (Urine) Negative Negative Bilirubin (Urine) Negative Negative Protein (Urine) Negative Negative Negative Glucose (Urine/GOD - POD)

Leukocytes(CP) (Urine) Positive(+)

MICROSCOPIC EXAMINATION

(URINE COMPLETE)

NIL /hpf Pus Cells (Urine) 2-5 NIL 0-1 /hpf Epithelial Cells (Urine) /HPF NIL RBCs (Urine) NIL



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Others (Urine) Bacteria Present

INTERPRETATION: Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports

Report On

are reviewed and confirmed microscopically.

Casts (Urine) NIL /hpf NIL

Crystals (Urine) NIL /hpf NIL



: 13/01/2024 7:57 PM

-- End of Report --

Name	MR.KUMAR BIRENDRA	ID	MED122401538
Age & Gender	44Y/MALE	Visit Date	13 Jan 2024
Ref Doctor Name	MediWheel	-	

ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is enlarged in size (16.3cm) and shows increased echotexture. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER - Partially distended.

CBD is not dilated.

PANCREAS has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

SPLEEN shows normal shape, size and echopattern.

BOTH KIDNEYS

Right kidney: Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

Left kidney: Normal in shape, size and echopattern. Cortico-medullary differentiation is well madeout. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

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·	Bipolar length (cms)	Parenchymal thickness (cms)			
Right Kidney	9.5	1.3			
Left Kidney	12.1	2.3			

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

PROSTATE shows normal shape, size and echopattern.

No evidence of ascites.

IMPRESSION:

- Mild hepatomegaly with grade I fatty infiltration.
- No other significant abnormality detected.

DR. SHWETHA S
CONSULTANT RADIOLOGIST
Sw/Sp

Name	MR.KUMAR BIRENDRA	ID	MED122401538
Age & Gender	44Y/MALE	Visit Date	13 Jan 2024
Ref Doctor Name	MediWheel		

2D ECHOCARDIOGRAPHIC STUDY

M-mode measurement:

AORTA 2.52 cms. LEFT ATRIUM 3.09 cms. **AVS** 1.47 cms. LEFT VENTRICLE (DIASTOLE) 4.06 cms. (SYSTOLE) 2.37 cms. **VENTRICULAR SEPTUM** (DIASTOLE) 1.13 cms. (SYSTOLE) 1.23 cms. **POSTERIOR WALL** (DIASTOLE) 1.23 cms. (SYSTOLE) 1.54 cms. **EDV** 72 ml. **ESV** 19 ml. % FRACTIONAL SHORTENING 41 **EJECTION FRACTION** 60 % *** **EPSS** cms. **RVID** 1.80 cms.

DOPPLER MEASUREMENTS:

MITRAL VALVE: E - 0.8 m/s A - 0.4 m/s NO MR.

AORTIC VALVE: 1.1 m/s NO AR.

TRICUSPID VALVE: E - 0.4 m/s A - 0.2 m/s NO TR.

PULMONARY VALVE: 0.8 m/s NO PR.

Name	MR.KUMAR BIRENDRA	ID	MED122401538
Age & Gender	44Y/MALE	Visit Date	13 Jan 2024
Ref Doctor Name	MediWheel	-	

2D ECHOCARDIOGRAPHY FINDINGS:

Left Ventricle : Concentric Lvh. 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:

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

DR. YASHODA RAVI CONSULTANT CARDIOLOGIST

Name	Mr. KUMAR BIRENDRA	Customer ID	MED122401538
Age & Gender	44Y/M	Visit Date	Jan 13 2024 10:39AM
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. TRISHUL SHETTY
CONSULTANT RADIOLOGIST

