

ETERNAL HOSPITAL MEDICAL TESTING LABORATORY

Patient Name	Mr. ATUL PARIHAR	Lab No	4023192
UHID	40010254	Collection Date	10/02/2024 8:55AM
Age/Gender	34 Yrs/Male	Receiving Date	10/02/2024 9:18AM
IP/OP Location	O-OPD	Report Date	10/02/2024 2:03PM
Referred By	Dr. EHS CONSULTANT	Report Status	Final
Mobile No.	7073775475		

BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Range	Sample: FI. Plasma
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BLOOD GLUCOSE (FASTING)

BLOOD GLUCOSE (FASTING)	100.4	mg/dl	74 - 106
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Method: Hexokinase assay.

Interpretation:-Diagnosis and monitoring of treatment in diabetes mellitus and evaluation of carbohydrate metabolism in various diseases.

BLOOD GLUCOSE (PP)

BLOOD GLUCOSE (PP)	95.5	mg/dl	Non – Diabetic: - < 140 mg/dl Pre – Diabetic: - 140-199 mg/dl Diabetic: - >=200 mg/dl
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Sample: PLASMA

Method: Hexokinase assay.

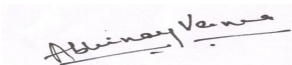
Interpretation:-Diagnosis and monitoring of treatment in diabetes mellitus and evaluation of carbohydrate metabolism in various diseases.

THYROID T3 T4 TSH

T3	1.460	ng/mL	0.970 - 1.690
T4	8.00	ug/dl	5.53 - 11.00
TSH	2.43	μIU/mL	0.40 - 4.05

Sample: Serum

RESULT ENTERED BY : SUNIL EHS



Dr. ABHINAY VERMA

MBBS|MD|INCHARGE PATHOLOGY

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BIOCHEMISTRY

T3:- Method: ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-The determination of T3 is utilized in the diagnosis of T3-hyperthyroidism the detection of early stages of hyperthyroidism and for indicating a diagnosis of thyrotoxicosis factitia.

T4:- Method: ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-The determination of T4 assay employs a competitive test principle with an antibody specifically directed against T4.

TSH - THYROID STIMULATING HORMONE :- ElectroChemiLuminescenceImmunoAssay - ECLIA

Interpretation:-The determination of TSH serves as the initial test in thyroid diagnostics. Even very slight changes in the concentrations of the free thyroid hormones bring about much greater opposite changes in the TSH levels.

LFT (LIVER FUNCTION TEST)

Sample: Serum

BILIRUBIN TOTAL	0.59	mg/dl	0.00 - 1.20
BILIRUBIN INDIRECT	0.47	mg/dl	0.20 - 1.00
BILIRUBIN DIRECT	0.12	mg/dl	0.00 - 0.40
SGOT	21.8	U/L	0.0 - 40.0
SGPT	20.9	U/L	0.0 - 40.0
TOTAL PROTEIN	7.58	g/dl	6.6 - 8.7
ALBUMIN	5.2	g/dl	3.5 - 5.2
GLOBULIN	2.4		1.8 - 3.6
ALKALINE PHOSPHATASE	83.6	U/L	53 - 128
A/G RATIO	2.2	Ratio	1.5 - 2.5
GGTP	32.3	U/L	10.0 - 55.0

RESULT ENTERED BY : SUNIL EHS

Abhinay Verma

Dr. ABHINAY VERMA

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BIOCHEMISTRY

BILIRUBIN TOTAL :- Method: DPD assay. Interpretation:-Total Bilirubin measurements are used in the diagnosis and treatment of various liver diseases, and of haemolytic and metabolic disorders in adults and newborns. Both obstruction damage to hepatocellular structure.

BILIRUBIN DIRECT :- Method: Diazo method Interpretation:-Determinations of direct bilirubin measure mainly conjugated, water soluble bilirubin.

SGOT - AST :- Method: IFCC without pyridoxal phosphate activation. Interpretation:-SGOT (AST) measurements are used in the diagnosis and treatment of certain types of liver and heart disease.

SGPT - ALT :- Method: IFCC without pyridoxal phosphate activation. Interpretation:-SGPT (ALT) Ratio Is Used For Differential Diagnosis In Liver Diseases.

TOTAL PROTEINS :- Method: Biuret colorimetric assay. Interpretation:-Total protein measurements are used in the diagnosis and treatment of a variety of liver and kidney diseases and bone marrow as well as metabolic and nutritional disorder.

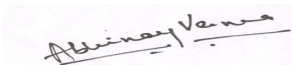
ALBUMIN :- Method: Colorimetric (BCP) assay. Interpretation:-For Diagnosis and monitoring of liver diseases, e.g. liver cirrhosis, nutritional status.

ALKALINE PHOSPHATASE :- Method: Colorimetric assay according to IFCC. Interpretation:-Elevated serum ALT is found in hepatitis, cirrhosis, obstructive jaundice, carcinoma of the liver, and chronic alcohol abuse. ALT is only slightly elevated in patients who have an uncomplicated myocardial infarction. **GGTP-GAMMA GLUTAMYL TRANSPEPTIDASE** :- Method: Enzymatic colorimetric assay. Interpretation:- γ -glutamyltransferase is used in the diagnosis and monitoring of hepatobiliary disease. Enzymatic activity of GGT is often the only parameter with increased values when testing for such diseases and is one of the most sensitive indicator known.

LIPID PROFILE

TOTAL CHOLESTEROL	183		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	35.2		High Risk :- <40 mg/dl (Male), <40 mg/dl (Female) Low Risk :- >=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	127.3		Optimal :- <100 mg/dl Near or Above Optimal :- 100-129 mg/dl Borderline :- 130-159 mg/dl High :- 160-189 mg/dl Very High :- >190 mg/dl
CHOLESTERO VLDL	29	mg/dl	10 - 50
TRIGLYCERIDES	144.8		Normal :- <150 mg/dl Border Line:- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	5.2	%	

RESULT ENTERED BY : SUNIL EHS



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BIOCHEMISTRY

CHOLESTEROL TOTAL :- Method: CHOD-PAP enzymatic colorimetric assay.

interpretation:-The determination of the individual total cholesterol (TC) level is used for screening purposes while for a better risk assessment it is necessary to measure additionally lipid & lipoprotein metabolic disorders.

HDL CHOLESTEROL :- Method:-Homogenous enzymatic colorimetric method.

Interpretation:-HDL-cholesterol has a protective against coronary heart disease, while reduced HDL-cholesterol concentrations, particularly in conjunction with elevated triglycerides, increase the cardiovascular disease.

LDL CHOLESTEROL :- Method: Homogenous enzymatic colorimetric assay.

Interpretation:-LDL play a key role in causing and influencing the progression of atherosclerosis and in particular coronary sclerosis. The LDL are derived from VLDL rich in TG by the action of various lipolytic enzymes and are synthesized in the liver.

CHOLESTEROL VLDL :- Method: VLDL Calculative

TRIGLYCERIDES :- Method: GPO-PAP enzymatic colorimetric assay.

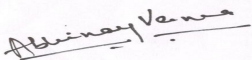
Interpretation:-High triglyceride levels also occur in various diseases of liver, kidneys and pancreas. DM, nephrosis, liver obstruction.

CHOLESTEROL/HDL RATIO :- Method: Cholesterol/HDL Ratio Calculative

Sample: Serum

UREA	16.30 L	mg/dl	16.60 - 48.50
BUN	7.6	mg/dl	6 - 20
CREATININE	0.94	mg/dl	0.60 - 1.10
SODIUM	138.1	mmol/L	136 - 145
POTASSIUM	4.54	mmol/L	3.50 - 5.50
CHLORIDE	104.9	mmol/L	98 - 107
URIC ACID	7.3 H	mg/dl	3.5 - 7.2
CALCIUM	9.46	mg/dl	8.60 - 10.30

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CREATININE - SERUM :- Method:-Jaffe method, Interpretation:-To differentiate acute and chronic kidney disease.

URIC ACID :- Method: Enzymatic colorimetric assay. Interpretation:- Elevated blood concentrations of uric acid are renal diseases with decreased excretion of waste products, starvation, drug abuse and increased alcohol consume.

SODIUM:- Method: ISE electrode. Interpretation:-Decrease: Prolonged vomiting or diarrhea, diminished reabsorption in the kidney and excessive fluid retention. Increase: excessive fluid loss, high salt intake and kidney reabsorption.

POTASSIUM :- Method: ISE electrode. Interpretation:-Low level: Intake excessive loss from body due to diarrhea, vomiting renal failure, High level: Dehydration, shock severe burns, DKA, renal failure.

CHLORIDE - SERUM :- Method: ISE electrode. Interpretation:-Decrease: reduced dietary intake, prolonged vomiting and reduced renal reabsorption as well as forms of acidosis and alkalosis.

Increase: dehydration, kidney failure, some form of acidosis, high dietary or parenteral chloride intake, and salicylate poisoning.

UREA:- Method: Urease/GLDH kinetic assay. Interpretation:-Elevations in blood urea nitrogen concentration are seen in inadequate renal perfusion, shock, diminished blood volume, chronic nephritis, nephrosclerosis, tubular necrosis, glomerular nephritis and UTI.

CALCIUM TOTAL :- Method: O-Cresolphthaleine complexone. Interpretation:-Increase in serum PTH or vit-D are usually associated with hypercalcemia. Increased serum calcium levels may also be observed in multiple myeloma and other neoplastic diseases. Hypocalcemia may be observed in hypoparathyroidism, nephrosis, and pancreatitis.

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BLOOD BANK INVESTIGATION

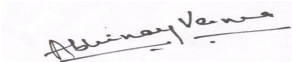
Test Name	Result	Unit	Biological Ref. Range
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BLOOD GROUPING	"B" Rh Positive		
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Note :

1. Both forward and reverse grouping performed.
2. Test conducted on EDTA whole blood.

RESULT ENTERED BY : SUNIL EHS



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MBBS|MD|INCHARGE PATHOLOGY

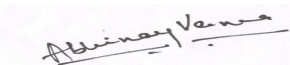
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CLINICAL PATHOLOGY

Test Name	Result	Unit	Biological Ref. Range	Sample: Urine
<u>URINE SUGAR (POST PRANDIAL)</u>				
URINE SUGAR (POST PRANDIAL)	NEGATIVE		NEGATIVE	Sample: Urine
<u>URINE SUGAR (RANDOM)</u>				
URINE SUGAR (RANDOM)	NEGATIVE		NEGATIVE	Sample: Urine
PHYSICAL EXAMINATION				
VOLUME	30	ml		Sample: Urine
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CELAR5.0		CLEAR	
CHEMICAL EXAMINATION				
PH	5.0 L		5.5 - 7.0	
SPECIFIC GRAVITY	1.010		1.016-1.022	
PROTEIN	NEGATIVE		NEGATIVE	
SUGAR	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
BLOOD	NEGATIVE			
KETONES	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
UROBILINOGEN	NEGATIVE		NEGATIVE	
LEUCOCYTE	NEGATIVE		NEGATIVE	
MICROSCOPIC EXAMINATION				
WBCS/HPF	1-2	/hpf	0 - 3	
RBCS/HPF	0-0	/hpf	0 - 2	
EPITHELIAL CELLS/HPF	1-2	/hpf	0 - 1	
CASTS	NIL		NIL	
CRYSTALS	NIL		NIL	

RESULT ENTERED BY : SUNIL EHS



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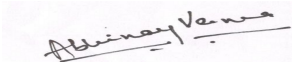
CLINICAL PATHOLOGY

BACTERIA	NIL	NIL
OHTERS	NIL	NIL

Methodology:-

Glucose: GOD-POD, Bilirubin: Diazo-Azo-coupling reaction with a diazonium, Ketone: Nitro Pruside reaction, Specific Gravity: Proton release from ions, Blood: Psuedo-Peroxidase activity oh Haem moiety, pH: Methye Red-Bromothymol Blue (Double indicator system), Protein: H+ Release by buffer, microscopic & chemical method. interpretation: Diagnosis of Kidney function, UTI, Presence of Protein, Glucoses, Blood. Vocubulary syntax: Kit insert

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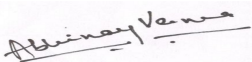
HEMATOLOGY

Test Name	Result	Unit	Biological Ref. Range
<u>CBC (COMPLETE BLOOD COUNT)</u>			
Sample: WHOLE BLOOD EDTA			
HAEMOGLOBIN	13.8	g/dl	13.0 - 17.0
PACKED CELL VOLUME(PCV)	43.0	%	40.0 - 50.0
MCV	91.3	fl	82 - 92
MCH	29.3	pg	27 - 32
MCHC	32.1	g/dl	32 - 36
RBC COUNT	4.71	millions/cu.mm	4.50 - 5.50
TLC (TOTAL WBC COUNT)	9.00	10 ³ / uL	4 - 10
<u>DIFFERENTIAL LEUCOCYTE COUNT</u>			
NEUTROPHILS	73.9	%	40 - 80
LYMPHOCYTE	16.7 L	%	20 - 40
EOSINOPHILS	4.6	%	1 - 6
MONOCYTES	4.4	%	2 - 10
BASOPHIL	0.4 L	%	1 - 2
PLATELET COUNT	4.76 H	lakh/cumm	1.500 - 4.500

HAEMOGLOBIN :- Method:-SLS HemoglobinMethodology by Cell Counter.Interpretation:-Low-Anemia, High-Polycythemia.
MCV :- Method:- Calculation bysystemex.
MCH :- Method:- Calculation bysystemex.
MCHC :- Method:- Calculation bysystemex.
RBC COUNT :- Method:-Hydrodynamicfocusing.Interpretation:-Low-Anemia,High-Polycythemia.
TLC (TOTAL WBC COUNT) :- Method:-Optical Detectorblock based on Flowcytometry.Interpretation:-High-Leucocytosis, Low-Leucopenia.
NEUTROPHILS :- Method: Optical detectorblock based on Flowcytometry
LYMPHOCYTS :- Method: Optical detectorblock based on Flowcytometry
EOSINOPHILS :- Method: Optical detectorblock based on Flowcytometry
MONOCYTES :- Method: Optical detectorblock based on Flowcytometry
BASOPHIL :- Method: Optical detectorblock based on Flowcytometry
PLATELET COUNT :- Method:-Hydrodynamicfocusing method.Interpretation:-Low-Thrombocytopenia, High-Thrombocytosis.
HCT: Method:- Pulse Height Detection. Interpretation:-Low-Anemia, High-Polycythemia.
NOTE: CH- CRITICAL HIGH, CL: CRITICAL LOW, L: LOW, H: HIGH

ESR (ERYTHROCYTE SEDIMENTATION RATE)	05	mm/1st hr	0 - 15
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RESULT ENTERED BY : SUNIL EHS



Dr. ABHINAV VERMA

MBBS|MD|INCHARGE PATHOLOGY

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Method:-Modified Westergrens.

Interpretation:-Increased in infections, sepsis, and malignancy.

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X Ray

Test Name	Result	Unit	Biological Ref. Range
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X-RAY CHEST P. A. VIEW

Both lung fields are clear.

Both CP angles are clear.

Both hemi-diaphragms arenormal in shape and outlines.

Cardiac shadow is withinnormal limits.

Visualized bony thorax is unremarkable.

Correlate clinically &with other related investigations.

****End Of Report****

RESULT ENTERED BY : SUNIL EHS



APOORVA JETWANI

Select

ETERNAL HOSPITAL MEDICAL TESTING LABORATORY

Patient Name	Mr. ATUL PARIHAR	Lab No	623843
UHID	338781	Collection Date	10/02/2024 10:34AM
Age/Gender	34 Yrs/Male	Receiving Date	10/02/2024 10:37AM
IP/OP Location	O-OPD	Report Date	10/02/2024 12:05PM
Referred By	Dr. EHCC Consultant	Report Status	Final
Mobile No.	9773349797		



BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Range
HBA1C	5.9	%	< 5.7% Nondiabetic 5.7-6.4% Pre-diabetic > 6.4% Indicate Diabetes
			Known Diabetic Patients < 7 % Excellent Control 7 - 8 % Good Control > 8 % Poor Control

Sample: WHOLE BLOOD EDTA

Method : - High - performance liquid chromatography HPLC

Interpretation:-Monitoring long term glycemic control, testing every 3 to 4 months is generally sufficient.
The approximate relationship between HbA1C and mean blood glucose values during the preceding 2 to 3 months.

****End Of Report****

RESULT ENTERED BY : Mr. MAHENDRA KUMAR

Dr. SURENDRA SINGH
CONSULTANT & HOD
MBBS|MD| PATHOLOGY

Dr. ASHISH SHARMA
CONSULTANT & INCHARGE PATHOLOGY
MBBS|MD| PATHOLOGY

DEPARTMENT OF RADIO DIAGNOSIS

UHID / IP NO	40010254 (3654)	RISNo./Status :	4023192/
Patient Name :	Mr. ATUL PARIHAR	Age/Gender :	34 Y/M
Referred By :	Dr. EHS CONSULTANT	Ward/Bed No :	OPD
Bill Date/No :	10/02/2024 8:34AM/ OPSCR23-24/12821	Scan Date :	
Report Date :	10/02/2024 9:50AM	Company Name:	Mediwheel - Arcofemi Health Care Ltd.

USG REPORT - ABDOMEN AND PELVIS

LIVER:

Is enlarged 16cm size Shows diffuse increased echogenicity.

No obvious focal lesion seen. No intra hepatic biliary radical dilatation seen.

GALL BLADDER:

Partially distended and visualized lumen is clear.

PANCREAS:

Obscured by bowel gas shadow.

SPLEEN:

Appears normal in size and it shows uniform echo texture.

RIGHT KIDNEY:

The shape, size and contour of the right kidney appear normal.

Corticomedullary differentiation is maintained. No evidence of pelvicalyceal dilatation.

No calculi seen.

LEFT KIDNEY:

The shape, size and contour of the left kidney appear normal.

Corticomedullary differentiation is maintained. No evidence of pelvicalyceal dilatation.

No calculi seen.

URINARY BLADDER:

Is normal in contour. No intraluminal echoes are seen. No calculus or diverticulum is seen.

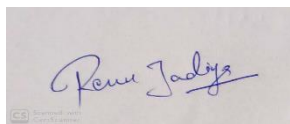
PROSTATE:

Is normal in size, measuring approx. 18-19cc in volume.

No focal fluid collections seen.

IMPRESSION:

Mild hepatomegaly with diffuse grade- II fatty liver



DR. RENU JADIYA

Consultant – Radiology

MBBS, DNB

DEPARTMENT OF RADIO DIAGNOSIS

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Bill Date/No :	10/02/2024 8:34AM/ OPSCR23-24/12821	Scan Date :	
Report Date :	10/02/2024 9:50AM	Company Name:	Mediwheel - Arcofemi Health Care Ltd.

DEPARTMENT OF CARDIOLOGY

UHID / IP NO	40010254 (3654)	RISNo./Status :	4023192/
Patient Name :	Mr. ATUL PARIHAR	Age/Gender :	34 Y/M
Referred By :	Dr. EHS CONSULTANT	Ward/Bed No :	OPD
Bill Date/No :	10/02/2024 8:34AM/ OPSCR23-24/12821	Scan Date :	
Report Date :	10/02/2024 12:28PM	Company Name:	Final

REFERRAL REASON: HEALTH CHECKUP

2D ECHOCARDIOGRAPHY WITH COLOR DOPPLER

M MODE DIMENSIONS: -

		Normal		Normal
IVSD	10.6	6-12mm	LVIDS	28.4
LVIDD	44.3	32-57mm	LVPWS	18.8
LVPWD	11.1	6-12mm	AO	27.5
IVSS	18.8	mm	LA	39.0
LVEF	62-64	>55%	RA	-

DOPPLER MEASUREMENTS & CALCULATIONS:

STRUCTURE	MORPHOLOGY	VELOCITY (m/s)				GRADIENT (mmHg)	REGURGITATION
		E	1.10	e'	-		
MITRAL VALVE	NORMAL	A	0.58	E/e'	-	-	NIL
		E	0.54				
TRICUSPID VALVE	NORMAL	A	0.46		-	NIL	
		E	1.19				
AORTIC VALVE	NORMAL	1.19				-	NIL
PULMONARY VALVE	NORMAL	0.77				-	NIL

COMMENTS & CONCLUSION: -

- ALL CARDIAC CHAMBERS ARE NORMAL
- NO RWMA, LVEF 62-64%
- NORMAL LV SYSTOLIC FUNCTION
- NORMAL LV DIASTOLIC FUNCTION
- ALL CARDIAC VALVES ARE NORMAL
- NO EVIDENCE OF CLOT/VEGETATION/PE
- INTACT IVS/IAS

IMPRESSION: - NORMAL BI VENTRICULAR FUNCTIONS

DR SUPRIY JAIN
MBBS, M.D., D.M. (CARDIOLOGY)
INCHARGE & SR. CONSULTANT
INTERVENTIONAL CARDIOLOGY

DR ROOPAM SHARMA
MBBS, PGDCC, FIAE
CONSULTANT & INCHARGE
EMERGENCY, PREVENTIVE CARDIOLOGY
AND WELLNESS CENTRE