

ETERNAL HOSPITAL MEDICAL TESTING LABORATORY

Patient Name	Mr. MUKUL BABU VERMA	Lab No	4042950
UHID	40017141	Collection Date	13/07/2024 9:01AM
Age/Gender	52 Yrs/Male	Receiving Date	13/07/2024 9:17AM
IP/OP Location	O-OPD	Report Date	13/07/2024 10:58AM
Referred By	Dr. EHS CONSULTANT	Report Status	Final
Mobile No.	9783809919		

BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Range	Sample: Serum
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VITAMIN B12	166 L	ng/mL	239 - 931	
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Method : ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-Nutritional and macrocytic anemias can be caused by a deficiency of vitamin B12. Malabsorption is the major cause of this deficiency through pancreatic deficiency, gastric atrophy or gastrectomy, intestinal damage, loss of intestinal vitamin B12 binding protein (Intrinsic factor), production of autoantibodies directed against intrinsic factor, or related causes. Untreated deficiencies will lead to megaloblastic anemia, and vitamin B12 deficiency results in irreversible central nervous system degeneration.

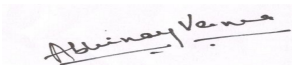
VITAMIN D - TOTAL (25 - Hydroxyvitamin D)	20.9	ng/mL	Severe Deficiency : <20 ng/ml/(<50 nmol/L) Insufficiency : 20 -< 30 ng/ml /(50-<75 nmol/L) Sufficiency : 30 - 100 ng/ml /(75-250 nmol/L) Potential Toxicity : >100 ng/ml /(>250 nmol/L)	Sample: Serum
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Method: ElectroChemiLuminescence ImmunoAssay - ECLIA

Interpretation:-Vit D deficiency is a common cause of secondary hyperparathyroidism.

End Of Report

RESULT ENTERED BY : SUNIL EHS



Dr. ABHINAY VERMA

MBBS|MD|INCHARGE PATHOLOGY

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IP/OP Location	O-OPD	Report Date	13/07/2024 4:14PM
Referred By	Dr. EHS CONSULTANT	Report Status	Final
Mobile No.	9783809919		

BIOCHEMISTRY

Test Name **Result** **Unit** **Biological Ref. Range** **Sample: Fl. Plasma**

BLOOD GLUCOSE (FASTING)

BLOOD GLUCOSE (FASTING) **146 H** mg/dl 71 - 109

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) **267** mg/dl
Non - Diabetic: - < 140 mg/dl
Pre - Diabetic: - 140-199 mg/dl
Diabetic: - >=200 mg/dl

Sample: PLASMA

Method: Hexokinase assay.

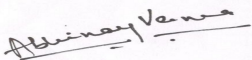
Interpretation:-Diagnosis and monitoring of treatment in diabetes mellitus and evaluation of carbohydrate metabolism in various diseases.

THYROID T3 T4 TSH

T3 **1.280** ng/mL 0.970 - 1.690
T4 **6.95** ug/dl 5.53 - 11.00
TSH **1.81** µIU/mL 0.40 - 4.05

Sample: Serum

RESULT ENTERED BY : SUNIL EHS



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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	0.47	mg/dl	0.00 - 1.20
BILIRUBIN INDIRECT	0.30	mg/dl	0.20 - 1.00
BILIRUBIN DIRECT	0.17	mg/dl	0.00 - 0.30
SGOT	21.0	U/L	0.0 - 40.0
SGPT	32.4	U/L	0.0 - 41.0
TOTAL PROTEIN	8.2	g/dl	6.6 - 8.7
ALBUMIN	5.2	g/dl	3.5 - 5.2
GLOBULIN	3.0		1.8 - 3.6
ALKALINE PHOSPHATASE	72	U/L	40 - 129
A/G RATIO	1.7	Ratio	1.5 - 2.5
GGTP	22.0	U/L	10.0 - 60.0

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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:

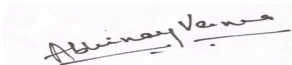
Enzymatic colorimetric assay. Interpretation:- γ -glutamyltransferase is used in the diagnosis and monitoring of hepatobiliary disease. Enzymatic activity of GGT is often the only parameter with increased values when testing for such diseases and is one of the most sensitive indicator known.

LIPID PROFILE

TOTAL CHOLESTEROL	130		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	34.1		High Risk :- <40 mg/dl (Male), <40 mg/dl (Female) Low Risk :- >=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	41.6		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	81 H	mg/dl	10 - 50
TRIGLYCERIDES	404		Normal :- <150 mg/dl Border Line:- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	4	%	

Remarks NOTE - TRIGLYCERIDES RECHECK BY SAME SAMPLE.

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 form 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 triglycerde 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	22.10	mg/dl	16.60 - 48.50
BUN	10	mg/dl	6 - 20
CREATININE	0.94	mg/dl	0.70 - 1.20
SODIUM	141	mmol/L	136 - 145
POTASSIUM	4.94	mmol/L	3.50 - 5.50
CHLORIDE	102.0	mmol/L	98 - 107
URIC ACID	5.7	mg/dl	3.4 - 7.0
CALCIUM	10.70 H	mg/dl	8.60 - 10.00

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

URIC ACID :- Method: Enzymatic colorimetric assay. Interpretation:- Elevated blood concentrations of uricacid 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 andkidney reabsorption.

POTASSIUM :- Method: ISE electrode. Intrapretation:-Low level: Intake excessive loss formbodydue to diarrhea, vomiting renal failure, High level: Dehydration, shock severe burns, DKA, renalfailure.

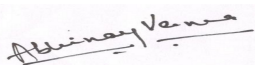
CHLORIDE - SERUM :- Method: ISE electrode. Interpretation:-Decrease: reduced dietary intake,prolonged vomiting and reduced renal reabsorption as well as forms of acidosisand alkalosis. Increase: dehydration, kidney failure, some form ofacidosis, high dietary or parenteral chloride intake, and salicylate poisoning.

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

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

Sample: WHOLE BLOOD EDTA

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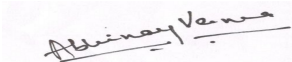
BIOCHEMISTRY

HbA1C	7.0	%			
				< 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

Method : - Turbidimetric inhibition immunoassay (TINIA), **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.

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BLOOD BANK INVESTIGATION

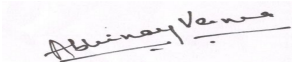
Test Name	Result	Unit	Biological Ref. Range
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BLOOD GROUPING	"A" Rh Positive		
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Note :

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

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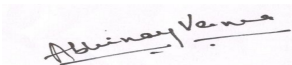
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CLINICAL PATHOLOGY

Test Name	Result	Unit	Biological Ref. Range	Sample: Urine
<u>URINE SUGAR (POST PRANDIAL)</u>				
URINE SUGAR (POST PRANDIAL)	+++		NEGATIVE	Sample: Urine
<u>URINE SUGAR (RANDOM)</u>				
URINE SUGAR (RANDOM)	PRESENT (++)		NEGATIVE	Sample: Urine
PHYSICAL EXAMINATION				
VOLUME	20	ml		Sample: Urine
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CLEAR		CLEAR	
CHEMICAL EXAMINATION				
PH	6.0		5.5 - 7.0	
SPECIFIC GRAVITY	1.005		1.016-1.022	
PROTEIN	NEGATIVE		NEGATIVE	
SUGAR	++		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	0-1	/hpf	0 - 2	
EPITHELIAL CELLS/HPF	1-2	/hpf	0 - 1	
CASTS	NIL		NIL	
CRYSTALS	NIL		NIL	

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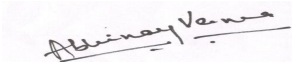
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CLINICAL PATHOLOGY

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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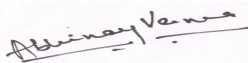
HEMATOLOGY

Test Name	Result	Unit	Biological Ref. Range
Sample: WHOLE BLOOD EDTA			
HAEMOGLOBIN	15.0	g/dl	13.0 - 17.0
PACKED CELL VOLUME(PCV)	47.0	%	40.0 - 50.0
MCV	80.8 L	fl	82 - 92
MCH	25.8 L	pg	27 - 32
MCHC	31.9 L	g/dl	32 - 36
RBC COUNT	5.82 H	millions/cu.mm	4.50 - 5.50
TLC (TOTAL WBC COUNT)	7.08	10 ³ / uL	4 - 10
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHILS	59.9	%	40 - 80
LYMPHOCYTE	29.1	%	20 - 40
EOSINOPHILS	3.5	%	1 - 6
BASOPHIL	0.3 L	%	1 - 2
MONOCYTES	7.2	%	2 - 10
PLATELET COUNT	2.85	lakh/cumm	1.500 - 4.500

HAEMOGLOBIN :- Method:-SLS Hemoglobin Methodology by Cell Counter. Interpretation:-Low-Anemia, High-Polycythemia.
MCV :- Method:- Calculation by sysmex.
MCH :- Method:- Calculation by sysmex.
MCHC :- Method:- Calculation by sysmex.
RBC COUNT :- Method:-Hydrodynamic focusing. Interpretation:-Low-Anemia, High-Polycythemia.
TLC (TOTAL WBC COUNT) :- Method:-Optical Detector block based on Flowcytometry. Interpretation:-High-Leucocytosis, Low-Leucopenia.
NEUTROPHILS :- Method: Optical detector block based on Flowcytometry
LYMPHOCYTES :- Method: Optical detector block based on Flowcytometry
EOSINOPHILS :- Method: Optical detector block based on Flowcytometry
MONOCYTES :- Method: Optical detector block based on Flowcytometry
BASOPHIL :- Method: Optical detector block based on Flowcytometry
PLATELET COUNT :- Method:-Hydrodynamic focusing 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)	10	mm/1st hr	0 - 15
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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

Rotation noted.

Both lung fields are clear.

Both CP angles are clear.

Both hemi-diaphragms are normal in shape and outlines.

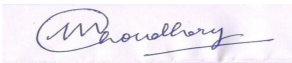
Cardiac shadow is within normal limits. Unfolding of aorta seen.

Visualized bony thorax is unremarkable.

Correlate clinically & with other related investigations.

****End Of Report****

RESULT ENTERED BY : SUNIL EHS



Dr. MRINAL CHOUDHARY
MBBS,MD Radiodiagnosis
RADIOLOGIST

DEPARTMENT OF RADIO DIAGNOSIS

UHID / IP NO	40017141 (25313)	RISNo./Status :	4042946/
Patient Name :	Mr. MUKUL BABU VERMA	Age/Gender :	52 Y/M
Referred By :	Dr. EHS CONSULTANT	Ward/Bed No :	OPD
Bill Date/No :	13/07/2024 8:31AM/ OPSCR24-25/11737	Scan Date :	
Report Date :	13/07/2024 10:37AM	Company Name:	Mediwheel - Arcofemi Health Care Ltd.

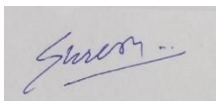
ULTRASOUND STUDY OF WHOLE ABDOMEN

- Liver:** Normal in size & **shows increased parenchymal echogenicity**. No obvious significant focal parenchymal mass lesion noted. Intrahepatic biliary radicals are not dilated. Portal vein is normal.
- Gall Bladder:** Lumen is clear. Wall thickness is normal. CBD is normal.
- Pancreas:** Normal in size & echotexture.
- Spleen:** Normal in size & echotexture. No focal lesion seen.
- Right Kidney:** Normal in shape, size & location. Echotexture is normal. Corticomedullary differentiation is maintained. No evidence of significant hydronephrosis or obstructive calculus noted.
- Left Kidney:** Normal in shape, size & location. Echotexture is normal. Corticomedullary differentiation is maintained. No evidence of obstructive calculus noted. **A cystic area of size 4.6 x3.6cm seen in left kidney with internal septation and -likely communication with calyceal system suggestive of likely focal caliectasis or intramedullary cyst.** Ureter is not seen dilated.
- Urinary Bladder:** Normal in size, shape & volume. No obvious calculus or mass lesion is seen. Wall thickness is normal.
- Prostate:** Is normal in size and echotexture.
- Others:** No significant free fluid is seen in pelvic peritoneal cavity.

IMPRESSION: USG findings are suggestive of

- Fatty liver grade – I.
- A cystic area in left kidney with internal septation and -likely communication with calyceal system suggestive of ? focal caliectasis / ? intramedullary cyst.
- Adv. CT urography.

Correlate clinically & with other related investigations.



DR. SURESH KUMAR SAINI
RADIOLOGIST
MBBS, MD.
Reg. No. 22597, 36208.

DEPARTMENT OF CARDIOLOGY

UHID / IP NO	40017141 (25313)	RISNo./Status :	4042946/
Patient Name :	Mr. MUKUL BABU VERMA	Age/Gender :	52 Y/M
Referred By :	Dr. EHS CONSULTANT	Ward/Bed No :	OPD
Bill Date/No :	13/07/2024 8:31AM/ OPSCR24-25/11737	Scan Date :	
Report Date :	13/07/2024 10:44AM	Company Name:	Final

REFERRAL REASON: CAD, POST PTCA, HEALTH CHECKUP

2D ECHOCARDIOGRAPHY WITH COLOR DOPPLER

M MODE DIMENSIONS: -

		Normal		Normal
IVSD	10.4	6-12mm	LVIDS	33.1
LVIDD	50.3	32-57mm	LVPWS	17.7
LVPWD	9.9	6-12mm	AO	27.6
IVSS	13.1	mm	LA	33.5
LVEF	42-44	>55%	RA	-

DOPPLER MEASUREMENTS & CALCULATIONS:

STRUCTURE	MORPHOLOGY	VELOCITY (m/s)				GRADIENT (mmHg)	REGURGITATION
		E	0.62	e'	-		
MITRAL VALVE	NORMAL	A	0.85	E/e'	-	-	MILD MR
		E	0.65	RVSP 31mmHg			
TRICUSPID VALVE	NORMAL	A	0.53	MILD TR			
		1.02		TRIVIAL AR			
AORTIC VALVE	NORMAL	0.85				-	NIL
PULMONARY VALVE	NORMAL					-	

COMMENTS & CONCLUSION: -

- ALL CARDIAC CHAMBERS ARE NORMAL
- APEX AKINETIC, ANTERIO-LATERAL & ANTERIO-SEPTAL HYPOKINETIC, LVEF 42-44%
- MODERATE LV SYSTOLIC DYSFUNCTION
- GRADE I LV DIASTOLIC DYSFUNCTION
- MILD MR/TR/PAH, TRIVIAL AR
- NO EVIDENCE OF CLOT/VEGETATION/PE
- INTACT IVS/IAS

IMPRESSION: - MILD MR/TR/PAH, TRIVIAL AR, GRADE I LV DIASTOLIC DYSFUNCTION, MODERATE LV SYSTOLIC DYSFUNCTION

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