

## ETERNAL HOSPITAL MEDICAL TESTING LABORATORY

<b>Patient Name</b>	Mr. ARVIND MEENA	<b>Lab No</b>	4026558
<b>UHID</b>	40011368	<b>Collection Date</b>	09/03/2024 9:28AM
<b>Age/Gender</b>	30 Yrs/Male	<b>Receiving Date</b>	09/03/2024 9:40AM
<b>IP/OP Location</b>	O-OPD	<b>Report Date</b>	09/03/2024 3:38PM
<b>Referred By</b>	Dr. EHS CONSULTANT	<b>Report Status</b>	Final
<b>Mobile No.</b>	9414150085		

### BIOCHEMISTRY

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

BLOOD GLUCOSE (FASTING)	84	mg/dl	71 - 109
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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 )	83.0	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	1.620	ng/mL	0.970 - 1.690
T4	8.70	ug/dl	5.53 - 11.00
TSH	2.35	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	0.37	mg/dl	0.00 - 1.20
BILIRUBIN INDIRECT	0.23	mg/dl	0.20 - 1.00
BILIRUBIN DIRECT	0.14	mg/dl	0.00 - 0.30
SGOT	<b>47.0 H</b>	U/L	0.0 - 40.0
SGPT	<b>86.1 H</b>	U/L	0.0 - 41.0
TOTAL PROTEIN	7.36	g/dl	6.6 - 8.7
ALBUMIN	4.80	g/dl	3.5 - 5.2
GLOBULIN	2.6		1.8 - 3.6
ALKALINE PHOSPHATASE	107	U/L	40 - 129
A/G RATIO	1.9	Ratio	1.5 - 2.5
GGTP	28	U/L	10.0 - 60.0

RESULT ENTERED BY : SUNIL EHS

*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.

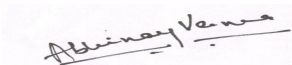
**ALBUMIN** :- Method: Colorimetric (BCP) assay. Interpretation:-For Diagnosis and monitoring of liver diseases, e.g. liver cirrhosis, nutritional status.

**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:- $\gamma$ -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	163		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	39.1		High Risk :- <40 mg/dl (Male), <40 mg/dl (Female) Low Risk :- >=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	105.1		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	28	mg/dl	10 - 50
TRIGLYCERIDES	140		Normal :- <150 mg/dl Border Line:- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	6.0	%	

RESULT ENTERED BY : SUNIL EHS



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MBBS|MD|INCHARGE PATHOLOGY

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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.

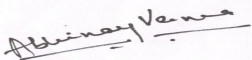
Interpretation:-High triglyceride levels also occur in various diseases of liver, kidneys and pancreas. DM, nephrosis, liver obstruction.

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

Sample: Serum

UREA	19.9	mg/dl	16.60 - 48.50
BUN	9.0	mg/dl	6 - 20
CREATININE	0.72	mg/dl	0.70 - 1.20
SODIUM	141	mmol/L	136 - 145
POTASSIUM	4.71	mmol/L	3.50 - 5.50
CHLORIDE	105.1	mmol/L	98 - 107
URIC ACID	<b>7.1 H</b>	mg/dl	3.4 - 7.0
CALCIUM	9.78	mg/dl	8.60 - 10.00

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### BIOCHEMISTRY

**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.

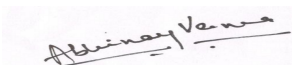
**CALCIUM TOTAL** :- Method: O-Cresolphthaleine complexone. Interpretation:-Increase in serum PTH or vit-D are usually associated with hypercalcemia. Increased serum calcium levels may also be observed in multiple myeloma and other neoplastic diseases. Hypocalcemia may be observed in hypoparathyroidism,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

Sample: WHOLE BLOOD EDTA

HBA1C	5.6	%															
			<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>&lt; 5.7%</b></td> <td><b>Nondiabetic</b></td> </tr> <tr> <td><b>5.7-6.4%</b></td> <td><b>Pre-diabetic</b></td> </tr> <tr> <td><b>&gt; 6.4%</b></td> <td><b>Indicate Diabetes</b></td> </tr> <tr> <td colspan="2"><b>Known Diabetic Patients</b></td> </tr> <tr> <td><b>&lt; 7 %</b></td> <td><b>Excellent Control</b></td> </tr> <tr> <td><b>7 - 8 %</b></td> <td><b>Good Control</b></td> </tr> <tr> <td><b>&gt; 8 %</b></td> <td><b>Poor Control</b></td> </tr> </table>	<b>&lt; 5.7%</b>	<b>Nondiabetic</b>	<b>5.7-6.4%</b>	<b>Pre-diabetic</b>	<b>&gt; 6.4%</b>	<b>Indicate Diabetes</b>	<b>Known Diabetic Patients</b>		<b>&lt; 7 %</b>	<b>Excellent Control</b>	<b>7 - 8 %</b>	<b>Good Control</b>	<b>&gt; 8 %</b>	<b>Poor Control</b>
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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.

RESULT ENTERED BY : SUNIL EHS



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### BLOOD BANK INVESTIGATION

Test Name	Result	Unit	Biological Ref. Range
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BLOOD GROUPING	"O" 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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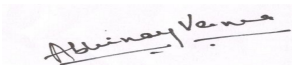
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### CLINICAL PATHOLOGY

Test Name	Result	Unit	Biological Ref. Range	Sample: Urine
<b><u>URINE SUGAR (POST PRANDIAL)</u></b>				
URINE SUGAR (POST PRANDIAL)	NEGATIVE		NEGATIVE	Sample: Urine
<b><u>URINE SUGAR (RANDOM)</u></b>				
URINE SUGAR (RANDOM)	NEGATIVE		NEGATIVE	Sample: Urine
<b>PHYSICAL EXAMINATION</b>				
VOLUME	20	ml		Sample: Urine
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CLEAR		CLEAR	
<b>CHEMICAL EXAMINATION</b>				
PH	6.0		5.5 - 7.0	
SPECIFIC GRAVITY	1.020		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	
<b>MICROSCOPIC EXAMINATION</b>				
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	

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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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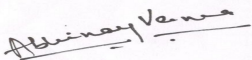
### HEMATOLOGY

Test Name	Result	Unit	Biological Ref. Range
<b><u>CBC (COMPLETE BLOOD COUNT)</u></b>			
Sample: WHOLE BLOOD EDTA			
HAEMOGLOBIN	15.2	g/dl	13.0 - 17.0
PACKED CELL VOLUME(PCV)	47.6	%	40.0 - 50.0
MCV	<b>98.6 H</b>	fl	82 - 92
MCH	31.5	pg	27 - 32
MCHC	<b>31.9 L</b>	g/dl	32 - 36
RBC COUNT	4.83	millions/cu.mm	4.50 - 5.50
TLC (TOTAL WBC COUNT)	7.08	10 <sup>3</sup> / uL	4 - 10
<b><u>DIFFERENTIAL LEUCOCYTE COUNT</u></b>			
NEUTROPHILS	62.5	%	40 - 80
LYMPHOCYTE	28.1	%	20 - 40
EOSINOPHILS	2.3	%	1 - 6
BASOPHIL	<b>0.3 L</b>	%	1 - 2
MONOCYTES	6.8	%	2 - 10
PLATELET COUNT	2.37	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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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 are normal in shape and outlines.

Cardiac shadow is within normal limits.

Visualized bony thorax is unremarkable.

**Correlate clinically & with other related investigations.**

**\*\*End Of Report\*\***

RESULT ENTERED BY : SUNIL EHS



Dr. SURESH KUMAR SAINI

MBBS,MD

RADIOLOGIST

## DEPARTMENT OF CARDIOLOGY

<b>UHID / IP NO</b>	40011368 (6887)	<b>RISNo./Status :</b>	4026558/
<b>Patient Name :</b>	Mr. ARVIND MEENA	<b>Age/Gender :</b>	30 Y/M
<b>Referred By :</b>	Dr. EHS CONSULTANT	<b>Ward/Bed No :</b>	OPD
<b>Bill Date/No :</b>	09/03/2024 8:59AM/ OPSCR23-24/15043	<b>Scan Date :</b>	
<b>Report Date :</b>	09/03/2024 11:59AM	<b>Company Name:</b>	Final

**REFERRAL REASON: ROUTINE CHECK-UP**

### 2D ECHOCARDIOGRAPHY WITH COLOR DOPPLER

**M MODE DIMENSIONS: -**

		Normal		Normal
<b>IVSD</b>	<b>11.1</b>	<b>6-12mm</b>	<b>LVIDS</b>	<b>29.4</b>
<b>LVIDD</b>	<b>43.3</b>	<b>32-57mm</b>	<b>LVPWS</b>	<b>18.8</b>
<b>LVPWD</b>	<b>11.3</b>	<b>6-12mm</b>	<b>AO</b>	<b>29.4</b>
<b>IVSS</b>	<b>18.8</b>	<b>mm</b>	<b>LA</b>	<b>32.7</b>
<b>LVEF</b>	<b>62-64</b>	<b>&gt;55%</b>	<b>RA</b>	<b>-</b>

### DOPPLER MEASUREMENTS & CALCULATIONS:

STRUCTURE	MORPHOLOGY	VELOCITY (m/s)				GRADIENT (mmHg)	REGURGITATION
		E	0.73	e'	-		
MITRAL VALVE	NORMAL	A	0.56	E/e'	-	-	NIL
		E	0.54				
TRICUSPID VALVE	NORMAL	A	0.52			-	NIL
		E	1.14				
AORTIC VALVE	NORMAL					-	NIL
PULMONARY VALVE	NORMAL					-	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**

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## DEPARTMENT OF RADIO DIAGNOSIS

<b>UHID / IP NO</b>	40011368 (6887)	<b>RISNo./Status :</b>	4026558/
<b>Patient Name :</b>	Mr. ARVIND MEENA	<b>Age/Gender :</b>	30 Y/M
<b>Referred By :</b>	Dr. EHS CONSULTANT	<b>Ward/Bed No :</b>	OPD
<b>Bill Date/No :</b>	09/03/2024 8:59AM/ OPSCR23-24/15043	<b>Scan Date :</b>	
<b>Report Date :</b>	09/03/2024 10:14AM	<b>Company Name:</b>	Mediwheel - Arcofemi Health Care Ltd.

### ULTRASOUND STUDY OF WHOLE ABDOMEN

**Liver:** Normal in size & shows increased in parenchymal echotexture. 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 significant hydronephrosis or obstructive calculus noted.

**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**

- Mild fatty liver.

**Correlate clinically & with other related investigations.**



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