**Patient Name** Mrs. GUDDI MEENA Lab No 4002649 UHID 40001959 **Collection Date** 13/05/2023 11:34AM 13/05/2023 11:35AM Age/Gender 36 Yrs/Female **Receiving Date Report Date IP/OP Location** O-OPD 13/05/2023 5:03PM **Referred By EHS CONSUTANT Report Status** Final 9408439955 Mobile No.

#### **BIOCHEMISTRY**

 Test Name
 Result
 Unit
 Biological Ref. Range

 BLOOD GLUCOSE (FASTING)
 Sample: FI. Plasma

 BLOOD GLUCOSE (FASTING)
 108.9 H
 mg/dl
 74 - 106

Method: Hexokinase assay.

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

BLOOD GLUCOSE (PP) Sample: PLASMA

BLOOD GLUCOSE (PP ) 90.0 mg/dl Non – Diabetic: - < 140 mg/dl

Pre – Diabetic: - 140-199 mg/dl Diabetic: - >=200 mg/dl

Method: Hexokinase assay.

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

THYROID T3 T4 TSH Sample: Serum

Т3	1.280	ng/mL	0.970 - 1.690
T4	6.56	ug/dl	5.53 - 11.00
TSH	1.98	μIU/mL	0.40 - 4.05

RESULT ENTERED BY : NEETU SHARMA

Dr. MUDITA SHARMA

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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 acompetitive test principle with an antibody specifically directed against T4.

TSH - THYROID STIMULATING HORMONE :- ElectroChemiLuminescenceImmunoAssay - ECLIA

1.1 L

13.5

Interpretation:-The determination of TSH serves as theinitial 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	0.55	mg/dl	0.00 - 1.20	
BILIRUBIN INDIRECT	0.38	mg/dl	0.20 - 1.00	
BILIRUBIN DIRECT	0.17	mg/dl	0.00 - 0.40	
SGOT	30.5	U/L	0.0 - 40.0	
SGPT	19.2	U/L	0.0 - 40.0	
TOTAL PROTEIN	8.1	g/dl	6.6 - 8.7	
ALBUMIN	4.3	g/dl	3.5 - 5.2	
GLOBULIN	3.8 H		1.8 - 3.6	
ALKALINE PHOSPHATASE	76.0	U/L	42 - 98	
	BILIRUBIN TOTAL BILIRUBIN INDIRECT BILIRUBIN DIRECT SGOT SGPT TOTAL PROTEIN ALBUMIN GLOBULIN	BILIRUBIN TOTAL 0.55 BILIRUBIN INDIRECT 0.38 BILIRUBIN DIRECT 0.17 SGOT 30.5 SGPT 19.2 TOTAL PROTEIN 8.1 ALBUMIN 4.3 GLOBULIN 3.8 H	BILIRUBIN TOTAL  BILIRUBIN INDIRECT  0.38 mg/dl  mg/dl  BILIRUBIN DIRECT  0.17 mg/dl  SGOT  30.5 U/L  SGPT  19.2 U/L  TOTAL PROTEIN  8.1 g/dl  ALBUMIN  4.3 g/dl  GLOBULIN  3.8 H	BILIRUBIN TOTAL       0.55       mg/dl       0.00 - 1.20         BILIRUBIN INDIRECT       0.38       mg/dl       0.20 - 1.00         BILIRUBIN DIRECT       0.17       mg/dl       0.00 - 0.40         SGOT       30.5       U/L       0.0 - 40.0         SGPT       19.2       U/L       0.0 - 40.0         TOTAL PROTEIN       8.1       g/dl       6.6 - 8.7         ALBUMIN       4.3       g/dl       3.5 - 5.2         GLOBULIN       3.8 H       1.8 - 3.6

Ratio

U/L

1.5 - 2.5

6.0 - 38.0

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A/G RATIO

GGTP

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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 structive.

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

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: Enzymetic colorimetric assay. Interpretation:-y-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	157		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	52.7		High Risk :-<40 mg/dl (Male), <40 mg/dl (Female) Low Risk :->=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	93.3		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	13.36	mg/dl	10 - 50
TRIGLYCERIDES	66.8		Normal :- <150 mg/dl Border Line:- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	2.97	%	

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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 enzymetic 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

RENAL PROFILE TEST Sample: Serum

UREA	23.8	mg/dl	16.60 - 48.50
BUN	11.1	mg/dl	6 - 20
CREATININE	0.88	mg/dl	0.50 - 0.90
SODIUM	140.7	mmol/L	136 - 145
POTASSIUM	4.39	mmol/L	3.50 - 5.50
CHLORIDE	106.3	mmol/L	98 - 107
URIC ACID	2.9	mg/dl	2.6 - 6.0
CALCIUM	8.46 L	mg/dl	8.60 - 10.30

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#### **BIOCHEMISTRY**

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 and kidney reabsorption.

POTASSIUM:- Method: ISE electrode. Intrpretation:-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 usually associated with hypercalcemia. Increased serum calcium levels may also be observed in multiple myeloma and other neoplastic diseases. Hypocalcemia may

beobserved in hypoparathyroidism, nephrosis, and pancreatitis.

Sample: WHOLE BLOOD EDTA

HBA1C 5.5 % < 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: - 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.

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#### **BLOOD BANK INVESTIGATION**

**Biological Ref. Range Test Name** Result Unit

**BLOOD GROUPING** "O" Rh Positive

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

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## **CLINICAL PATHOLOGY**

**Biological Ref. Range** 

Unit

Result

rest Name	nesure	Oilit	biological Nett Marige	
URINE SUGAR (POST PRANDIAL)				Sample: Urine
URINE SUGAR (POST PRANDIAL)	NEGATIVE			
URINE SUGAR (RANDOM)				Sample: Urine
URINE SUGAR (RANDOM)	NEGATIVE			
ROUTINE EXAMINATION - URINE				Sample: Urine
PHYSICAL EXAMINATION				
VOLUME	20	ml		
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CLEAR		CLEAR	
CHEMICAL EXAMINATION				
PH	6.0		5.5 - 7.0	
SPECIFIC GRAVITY	1.030		1.016-1.022	
PROTEIN	NEGATIVE		NEGATIVE	
SUGAR	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
BLOOD	TRACE			
KETONES	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
UROBILINOGEN	NEGATIVE		NEGATIVE	
LEUCOCYTE	TRCAE		NEGATIVE	
MICROSCOPIC EXAMINATION				
WBCS/HPF	2-4	/hpf	0 - 3	
RBCS/HPF	0-1	/hpf	0 - 2	
EPITHELIAL CELLS/HPF	2-3	/hpf	0 - 1	
CASTS	NIL		NIL	
CRYSTALS	NIL		NIL	

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**Test Name** 

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#### **CLINICAL PATHOLOGY**

BACTERIA NIL NIL **OHTERS** NIL NIL

Methodology:-

Methodology:Glucose: GOD-POD, Bilirubin: Diazo-Azo-coupling reaction with a diazonium, Ketone: Nitro Pruside reaction, Specific
Gravity: Proton re;ease 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. Ra	nge
CBC (COMPLETE BLOOD COUNT)				Sample: WHOLE BLOOD EDTA
HAEMOGLOBIN	11.4 L	g/dl	12.0 - 15.0	
PACKED CELL VOLUME(PCV)	36.6	%	36.0 - 46.0	
MCV	94.1 H	fl	82 - 92	
MCH	29.3	pg	27 - 32	
MCHC	31.1 L	g/dl	32 - 36	
RBC COUNT	3.89	millions/cu.mm	3.80 - 4.80	
TLC (TOTAL WBC COUNT)	4.46	10^3/ uL	4 - 10	
DIFFERENTIAL LEUCOCYTE COUNT				
NEUTROPHILS	63.0	%	40 - 80	
LYMPHOCYTE	28.7	%	20 - 40	
EOSINOPHILS	1.6	%	1 - 6	
MONOCYTES	6.3	%	2 - 10	
BASOPHIL	0.4 L	%	1 - 2	
PLATELET COUNT	1.32 L	lakh/cumm	1.500 - 4.500	

HAEMOGLOBIN :- Method:-SLS HemoglobinMethodology by Cell Counter.Interpretation:-Low-Anemia, High-Polycythemia.

MCV: - Method: - Calculation bysysmex.

MCH: - Method: - Calculation bysysmex.

MCHC: - Method: - Calculation bysysmex.

MCHC: - Method: - Calculation bysysmex.

REC 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)

30 H

mm/1st hr

0 - 15

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**Patient Name** Lab No 4002649 Mrs. GUDDI MEENA UHID 40001959 **Collection Date** 13/05/2023 11:34AM 13/05/2023 11:35AM Age/Gender **Receiving Date** 36 Yrs/Female **Report Date** O-OPD **IP/OP Location** 13/05/2023 5:03PM **EHS CONSUTANT Referred By Report Status** Final Mobile No. 9408439955

Method:-Modified Westergrens. Interpretation:-Increased in infections, sepsis, and malignancy.

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Test Name Result Unit Biological Ref. Range

#### **USG REPORT - ABDOMEN AND PELVIS**

# LIVER:

Is normal in size (~138 mm) and uniform echo texture. No obvious focal lesion seen. No intra - Hepatic biliary radical dilatation seen.

# **GALL BLADDER:**

**Partially distended** with no obvious wall thickening/pericholecystic fat stranding/fluid. No obvious calculus/polyp/mass seen within.

## PANCREAS:

Appears normal in size and it shows uniform echotexture.

## SPLEEN:

Is normal in size (~87 mm) and shows uniform echogenicity.

# **RIGHT KIDNEY:**

Right kidney measures 89 x 47 mm.

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:**

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USG

Left kidney measures 83 x 49 mm.

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

Corticomedullary differentiation is maintained. No evidence of pelvicalyceal dilatation.

No calculi seen.

**BLADDER:** 

Is partially distended (patient is not willing to hold further pressure).

**UTERUS:** 

Appears normal for the age.

IUCD seen in situ.

**ADNEXA:** 

No obvious adnexal mass lesion is seen.

**RIGHT ILIAC FOSSA:** 

No focal fluid collections seen.

**IMPRESSION:** 

No significant sonographic abnormality detected.

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X Ray

Test Name Result Unit Biological Ref. Range

## X-RAY - CHEST PA VIEW

#### **OBSERVATION:**

The trachea is central.

The mediastinal and cardiac silhouette are normal.

Cardiothoracic ratio is normal.

Cardiophrenic and costophrenic angles are normal.

Both hila are normal.

The lung fields are clear.

Bones of the thoracic cage are normal.

Soft tissues of the chest wall are normal.

# **IMPRESSION:**

No significant abnormality seen.

\*\*End Of Report\*\*

RESULT ENTERED BY : NEETU SHARMA

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