

ETERNAL HOSPITAL MEDICAL TESTING LABORATORY

Patient Name	Mr. ANIL KUMAR GIGNA	Lab No	4003276
UHID	40002250	Collection Date	24/05/2023 9:14AM
Age/Gender	47 Yrs/Male	Receiving Date	24/05/2023 9:28AM
IP/OP Location	O-OPD	Report Date	24/05/2023 6:22PM
Referred By	EHS CONSUTANT	Report Status	Final
Mobile No.	9261736341		

BIOCHEMISTRY

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

BLOOD GLUCOSE (FASTING)	111.5 H	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)	91.9	mg/dl	Non – Diabetic: - < 140 mg/dl Pre – Diabetic: - 140-199 mg/dl Diabetic: - >=200 mg/dl	Sample: PLASMA
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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	1.220	ng/mL	0.970 - 1.690	
T4	7.40	ug/dl	5.53 - 11.00	
TSH	2.33	μIU/mL	0.40 - 4.05	Sample: Serum

RESULT ENTERED BY : Mr. JITENDRA MARWAL



Dr. MUDITA SHARMA

MBBS|MD| 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.

LIPID PROFILE

TOTAL CHOLESTEROL	231		<200 mg/dl :- Desirable 200-240 mg/dl :- Borderline >240 mg/dl :- High
HDL CHOLESTEROL	42.7		High Risk :- <40 mg/dl (Male), <40 mg/dl (Female) Low Risk :- >=60 mg/dl (Male), >=60 mg/dl (Female)
LDL CHOLESTEROL	149.2		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	24	mg/dl	10 - 50
TRIGLYCERIDES	118.6		Normal :- <150 mg/dl Border Line :- 150 - 199 mg/dl High :- 200 - 499 mg/dl Very high :- > 500 mg/dl
CHOLESTEROL/HDL RATIO	5.4	%	

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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	16.60	mg/dl	16.60 - 48.50
BUN	7.5	mg/dl	6 - 20
CREATININE	0.87	mg/dl	0.60 - 1.10
SODIUM	140	mmol/L	136 - 145
POTASSIUM	3.83	mmol/L	3.50 - 5.50
CHLORIDE	106	mmol/L	98 - 107
URIC ACID	4.7	mg/dl	3.5 - 7.2
CALCIUM	9.72	mg/dl	8.60 - 10.30

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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,diminshed 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.

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BIOCHEMISTRY

Test Name	Result	Unit	Biological Ref. Range	Sample: Serum
<u>LFT (LIVER FUNCTION TEST)</u>				
BILIRUBIN TOTAL	0.83	mg/dl	0.00 - 1.20	
BILIRUBIN INDIRECT	0.48	mg/dl	0.20 - 1.00	
BILIRUBIN DIRECT	0.35	mg/dl	0.00 - 0.40	
SGOT	30.7	U/L	0.0 - 40.0	
SGPT	75.5 H	U/L	0.0 - 40.0	
TOTAL PROTEIN	7.8	g/dl	6.6 - 8.7	
ALBUMIN	4.3	g/dl	3.5 - 5.2	
GLOBULIN	3.5		1.8 - 3.6	
ALKALINE PHOSPHATASE	130.2 H	U/L	53 - 128	
A/G RATIO	1.2 L	Ratio	1.5 - 2.5	
GGTP	45.5	U/L	10.0 - 55.0	

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.

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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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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)	NEGATIVE			Sample: Urine
 <u>ROUTINE EXAMINATION - URINE</u>				
PHYSICAL EXAMINATION				
VOLUME	10	ml		
COLOUR	PALE YELLOW		P YELLOW	
APPEARANCE	CLEAR		CLEAR	
CHEMICAL EXAMINATION				
PH	6.0		5.5 - 7.0	
SPECIFIC GRAVITY	1.015		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	

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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
<u>CBC (COMPLETE BLOOD COUNT)</u>				
HAEMOGLOBIN	13.9	g/dl	13.0 - 17.0	
PACKED CELL VOLUME(PCV)	41.7	%	40.0 - 50.0	
MCV	87.1	fl	82 - 92	
MCH	29.0	pg	27 - 32	
MCHC	33.3	g/dl	32 - 36	
RBC COUNT	4.79	millions/cu.mm	4.50 - 5.50	
TLC (TOTAL WBC COUNT)	4.99	10 ³ / uL	4 - 10	
<u>DIFFERENTIAL LEUCOCYTE COUNT</u>				
NEUTROPHILS	54.5	%	40 - 80	
LYMPHOCYTE	32.1	%	20 - 40	
EOSINOPHILS	6.0	%	1 - 6	
MONOCYTES	6.4	%	2 - 10	
BASOPHIL	1.0	%	1 - 2	
PLATELET COUNT	1.96	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)	10	mm/1st hr	0 - 15
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Method:-Modified Westergrens.

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

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USG REPORT - ABDOMEN AND PELVIS

LIVER:

Is normal in size measure **130 mm** and uniform echo texture. No obvious focal lesion seen. No intra hepatic biliary radical dilatation seen.

GALLBLADDER:

Adequately distended shows few calculi, largest visualized calculus measures 7.3 mm. No obvious wall thickening/pericholecystic fat stranding/fluid.

PANCREAS:

Obscured by bowel gases.

SPLEEN:

Appears normal in size and it shows uniform echo texture. It measures **88 mm** in long axis.

RIGHT KIDNEY:

Right kidney measures **101 x 49 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:

Left kidney measures **101 x 47 mm**.

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USG

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:

Measures **25 x 25 x 38 mm with 13 cc** in volume. Normal.

RIGHT ILIAC FOSSA:

No focal fluid collections seen.

IMPRESSION:

Cholelithiasis.

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Dr. RENU JADIYA
MBBS, DNB
RADIOLOGIST

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X Ray

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X-RAY - CHEST PA VIEW

OBSERVATION:

Patient is rotated to the right.

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

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