

DEPARTMENT OF LABORATORY MEDICINE

Final Report

Patient Name : Tuhina Mukherjee MRN : 17510001160011 Gender/Age : FEMALE , 46y (13/01/1977)

Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:15 AM Reported On : 11/02/2023 11:33 AM

Barcode : 802302110290 Specimen : Serum Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
LIVER FUNCTION TEST(LFT)			
Bilirubin Total (Colorimetric -Diazo Method)	0.40	mg/dL	0.2-1.3
Conjugated Bilirubin (Direct) (Calculated)	0.04	mg/dL	0.0-0.4
Unconjugated Bilirubin (Indirect) (Colorimetric Endpoint)	0.36	-	-
Total Protein (Biuret Method)	7.40	g/dL	6.3-8.2
Serum Albumin (Colorimetric - Bromo-Cresol Green)	4.30	gm/dL	3.5-5.0
Serum Globulin (Calculated)	3.1	g/dL	2.0-3.5
Albumin To Globulin (A/G)Ratio (Calculated)	1.39	-	1.0-2.1
SGOT (AST) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	28	U/L	14.0-36.0
SGPT (ALT) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	32	U/L	<35.0
Alkaline Phosphatase (ALP) (Multipoint-Rate - P-nitro Phenyl Phosphate, AMP Buffer)	104	IU/L	38.0-126.0
Gamma Glutamyl Transferase (GGT) (Multipoint Rate - L-glutamyl-p-nitroanilide (Szasz Method))	22	U/L	12.0-43.0

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Dr. Sujata Ghosh
PhD, Biochemistry
Biochemist M.Sc , Ph. D

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
SERUM CREATININE			
Serum Creatinine (Two Point Rate - Creatinine Aminohydrolase)	0.66	mg/dL	0.52-1.04
eGFR	96.5	mL/min/1.73m ²	-
Blood Urea Nitrogen (BUN) (Endpoint /Colorimetric - Urease)	9.05	-	7.0-17.0
Serum Sodium (Direct ISE - Potentiometric)	141	mmol/L	137.0-145.0
Serum Potassium (Direct ISE - Potentiometric)	4.5	mmol/L	3.5-5.1
LIPID PROFILE (CHOL,TRIG,HDL,LDL,VLDL)			
Cholesterol Total (Colorimetric - Cholesterol Oxidase)	170	mg/dL	Desirable: < 200 Borderline High: 200-239 High: > 240
Triglycerides (Enzymatic Endpoint Colorimetric)	173	mg/dL	Normal: < 150 Borderline: 150-199 High: 200-499 Very High: > 500
HDL Cholesterol (HDLC) (Colorimetric: Non HDL Precipitation Phosphotungstic Acid Method)	54	mg/dL	40.0-60.0
Non-HDL Cholesterol	116.0	-	-
LDL Cholesterol (Non LDL Selective Elimination, CHOD/POD)	75.7	mg/dL	Optimal: < 100 Near to above optimal: 100-129 Borderline High: 130-159 High: 160-189 Very High: > 190

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VLDL Cholesterol (Calculated)	34.6	mg/dL	0.0-40.0
Cholesterol /HDL Ratio	3.2	-	-

--End of Report--



Dr. Debasree Biswas
MD, Biochemistry
Clinical Biochemist MBBS, MD



Dr. Sujata Ghosh
PhD, Biochemistry
Biochemist M.Sc , Ph. D

Note

- Abnormal results are highlighted.
- Results relate to the sample only.
- Kindly correlate clinically.
(Lipid Profile, -> Auto Authorized)
(Blood Urea Nitrogen (Bun), -> Auto Authorized)
(Serum Sodium, -> Auto Authorized)
(Serum Potassium, -> Auto Authorized)
(CR -> Auto Authorized)



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Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:15 AM Reported On : 11/02/2023 12:25 PM

Barcode : 802302110290 Specimen : Serum Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
THYROID PROFILE (T3, T4, TSH)			
Tri Iodo Thyronine (T3) (Enhanced Chemiluminescence Immunoassay (CLIA))	1.05	ng/mL	0.97-1.69
Thyroxine (T4) (Enhanced Chemiluminescence Immunoassay (CLIA))	9.92	µg/dl	5.53-11.0
TSH (Thyroid Stimulating Hormone) (Enhanced Chemiluminescence Immunoassay (CLIA))	1.739	uIU/ml	Non Pregnant: 0.4001-4.049 1st Trimester: 0.1298-3.10 2nd Trimester: 0.2749-2.652 3rd Trimester: 0.3127-2.947

--End of Report--

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MD, Biochemistry
Clinical Biochemist MBBS, MD

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Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:16 AM Reported On : 11/02/2023 10:54 AM

Barcode : 802302110293 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
HBA1C			
HbA1c (HPLC)	5.4	%	Normal: 4.0-5.6 Prediabetes: 5.7-6.4 Diabetes: => 6.5 ADA standards 2019 (Carpenter/ Coustan)
Estimated Average Glucose	108.29	-	-

Interpretation:

- HbA1C above 6.5% can be used to diagnose diabetes provided the patient has symptoms. If the patient does not have symptoms with HbA1C>6.5%, repeat measurement on further sample. If the repeat test result is <6.5%, consider as diabetes high risk and repeat measurement after 6 months.
- HbA1C measurement is not appropriate in diagnosing diabetes in children, suspicion of type 1 diabetes, symptoms of diabetes for less than 2 months, pregnancy, hemoglobinopathies, medications that may result sudden increase in glucose, anemia, renal failure, HIV infection, malignancies, severe chronic hepatic, and renal disease.
- Any sample with >15% should be suspected of having a haemoglobin variant.

--End of Report-

Dr. Sujata Ghosh
PhD, Biochemistry
Biochemist M.Sc , Ph. D

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Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:16 AM Reported On : 11/02/2023 10:26 AM

Barcode : 812302110240 Specimen : Whole Blood - ESR Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

HAEMATOLOGY LAB

Test	Result	Unit	Biological Reference Interval
Erythrocyte Sedimentation Rate (ESR) (Modified Westergren Method)	35 H	mm/1hr	0.0-12.0

--End of Report--

Dr. Sanjib Kumar Pattari
MD, Pathology
Consultant Pathology MBBS, MD

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Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 11:28 AM Reported On : 11/02/2023 01:36 PM

Barcode : 822302110018 Specimen : Urine Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL PATHOLOGY

Test	Result	Unit	Biological Reference Interval
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URINE ROUTINE & MICROSCOPY**PHYSICAL EXAMINATION**

Volume	40	ml	-
Colour	Pale Yellow	-	-
Appearance	Clear	-	-

CHEMICAL EXAMINATION

pH(Reaction) (Mixed PH Indicator)	6.0	-	4.8-7.5
Sp. Gravity (Dual Wavelength Reflectance)	1.010	-	1.002-1.030
Protein (Protein Error Of PH Indicator)	Negative	-	-
Urine Glucose (Glucose Oxidase, Peroxidase)	Negative	-	Negative
Ketone Bodies (Legal's Method)	Negative	-	Negative
Bile Salts (Dual Wavelength Reflectance/Manual)	Negative	-	Negative
Bile Pigment (Bilirubin) (Coupling Of Bilirubin With Diazonium Salt)	Negative	-	Negative
Urobilinogen (Coupling Reaction Of Urobilinogen With A Stable Diazonium Salt In Buffer)	Normal	-	Normal
Urine Leucocyte Esterase (Enzymatic, Indoxyl Ester And Diazonium Salt)	Negative	-	Negative
Blood Urine (Pseudo - Enzymatic Test, Organic Peroxidase And Chromogen)	Negative	-	Negative
Nitrite (Modified Griess Reaction)	Negative	-	Negative

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MICROSCOPIC EXAMINATION

Pus Cells	0-2	/hpf	1-2
RBC	NIL	/hpf	0 - 3
Epithelial Cells	2-4	/hpf	2-3
Crystals	NIL	-	-
Casts	NIL	-	-

--End of Report--



Dr. Moumita Panja
DNB, Pathology
Consultant Pathologist

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Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:16 AM Reported On : 11/02/2023 10:08 AM

Barcode : 812302110241 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

HAEMATOLOGY LAB

Test	Result	Unit	Biological Reference Interval
COMPLETE BLOOD COUNT (CBC)			
Haemoglobin (Hb%) (Photometric Measurement)	11.7 L	g/dL	12.0-15.0
Red Blood Cell Count (Electrical Impedance)	3.71 L	millions/ μ L	3.8-4.8
PCV (Packed Cell Volume) / Hematocrit (Calculated)	35.3 L	%	36.0-46.0
MCV (Mean Corpuscular Volume) (Derived From RBC Histogram)	95.1	fL	83.0-101.0
MCH (Mean Corpuscular Haemoglobin) (Calculated)	31.4	pg	27.0-32.0
MCHC (Mean Corpuscular Haemoglobin Concentration) (Calculated)	33.1	%	31.5-34.5
Red Cell Distribution Width (RDW) (Calculated)	14.1 H	%	11.6-14.0
Platelet Count (Electrical Impedance)	174	$10^3/\mu$ L	150.0-400.0
Mean Platelet Volume (MPV) (Derived)	13.7 H	fL	7.0-11.7
Total Leucocyte Count(WBC) (Electrical Impedance)	6.6	$10^3/\mu$ L	4.0-10.0
DIFFERENTIAL COUNT (DC)			
Neutrophils (VCSn Technology)	64.1	%	40.0-75.0
Lymphocytes (VCSn Technology)	27.9	%	20.0-40.0
Monocytes (VCSn Technology)	6.4	%	2.0-10.0
Eosinophils (VCSn Technology)	1.2	%	1.0-6.0

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Basophils (VCSn Technology)	0.4	%	0.0-2.0
NRBC (VCSn Technology)	0.0	/100 WBC	-
Absolute Neutrophil Count (Calculated)	4.24	$10^3/\mu\text{L}$	1.8-7.8
Absolute Lymphocyte Count (Calculated)	1.85	$10^3/\mu\text{L}$	1.0-4.8
Absolute Monocyte Count (Calculated)	0.43	$10^3/\mu\text{L}$	0.0-0.8
Absolute Eosinophil Count (Calculated)	0.08	$10^3/\mu\text{L}$	0.0-0.45
Absolute Basophil Count (Calculated)	0.03	$10^3/\mu\text{L}$	0.0-0.2

As per the recommendation of International Council for Standardization in Hematology, the differential counts are additionally being reported as absolute numbers.

--End of Report--

Dr. Rakhi Mandal
MD, Pathology
Consultant Pathology MBBS, MD

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Patient Name : Tuhina Mukherjee MRN : 17510001160011 Gender/Age : FEMALE , 46y (13/01/1977)

Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:52 AM Reported On : 11/02/2023 11:34 AM

Barcode : BR2302110026 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

IMMUNOHAEMATOLOGY

Test	Result	Unit
BLOOD GROUP & RH TYPING		
Blood Group (Column Agglutination Technology)	O	-
RH Typing (Column Agglutination Technology)	Positive	-

--End of Report--

Dr. Amal Kumar Saha
MBBS, D.PED, ECFMG
Blood Bank Officer

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Final Report

Patient Name : Tuhina Mukherjee MRN : 17510001160011 Gender/Age : FEMALE , 46y (13/01/1977)

Collected On : 11/02/2023 08:37 AM Received On : 11/02/2023 09:15 AM Reported On : 11/02/2023 10:50 AM

Barcode : 802302110292 Specimen : Plasma Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
Fasting Blood Sugar (FBS) (Glucose Oxidase, Peroxidase)	100 H	mg/dL	Normal: 70-99 Pre-diabetes: 100-125 Diabetes: => 126 ADA standards 2019

--End of Report--

Dr. Debasree Biswas
MD, Biochemistry
Clinical Biochemist MBBS, MD

Dr. Sujata Ghosh
PhD, Biochemistry
Biochemist M.Sc , Ph. D

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(Fasting Blood Sugar (FBS) -> Auto Authorized)



DEPARTMENT OF LABORATORY MEDICINE

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Patient Name : Tuhina Mukherjee MRN : 17510001160011 Gender/Age : FEMALE , 46y (13/01/1977)

Collected On : 11/02/2023 12:44 PM Received On : 11/02/2023 01:19 PM Reported On : 11/02/2023 02:06 PM

Barcode : 802302110599 Specimen : Plasma Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-002 Patient Mobile No : 9748574758

CLINICAL CHEMISTRY

Test	Result	Unit	Biological Reference Interval
Post Prandial Blood Sugar (PPBS) (Glucose Oxidase, Peroxidase)	122	mg/dL	Normal: 70-139 Pre-diabetes: 140-199 Diabetes: => 200 ADA standards 2019

Interpretations:

(ADA Standards Jan 2017)

FBS can be less than PPBS in certain conditions like post prandial reactive hypoglycaemia, exaggerated response to insulin, subclinical hypothyroidism, very lean/anxious individuals. In non-diabetic individuals, such patients can be followed up with GTT.

--End of Report--



Dr. Debasree Biswas
MD, Biochemistry
Clinical Biochemist MBBS, MD



Dr. Sujata Ghosh
PhD, Biochemistry
Biochemist M.Sc , Ph. D

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- Kindly correlate clinically.
(Post Prandial Blood Sugar (PPBS) -> Auto Authorized)



ADULT TRANS-THORACIC ECHO REPORT

PATIENT NAME : Tuhina Mukherjee
GENDER/AGE : Female, 46 Years
LOCATION : -

PATIENT MRN : 17510001160011
PROCEDURE DATE : 11/02/2023 11:45 AM
REQUESTED BY : EXTERNAL



IMPRESSION

- NO SIGNIFICANT ECHOCARDIOGRAPHIC ABNORMALITY DETECTED.

FINDINGS

CHAMBERS

LEFT ATRIUM : NORMAL SIZED
RIGHT ATRIUM : NORMAL SIZED
LEFT VENTRICLE : NORMAL SIZED CAVITY. NO REGIONAL WALL MOTION ABNORMALITY. GOOD LV SYSTOLIC FUNCTION WITH EJECTION FRACTION: 66%. NORMAL DIASTOLIC FLOW PATTERN.
RIGHT VENTRICLE : NORMAL.

VALVES

MITRAL : NORMAL.
AORTIC : NORMAL.
TRICUSPID : NORMAL.
PULMONARY : NORMAL.

SEPTAE

IAS : INTACT
IVS : INTACT

ARTERIES AND VEINS

AORTA : NORMAL, LEFT AORTIC ARCH
PA : NORMAL SIZE
IVC : NORMAL SIZE & COLLAPSIBILITY
SVC & CS : NORMAL
PULMONARY VEINS : NORMAL

PERICARDIUM : NORMAL PERICARDIAL THICKNESS. NO EFFUSION

INTRACARDIAC MASS : NO TUMOUR, THROMBUS OR VEGETATION SEEN

OTHERS : NIL.

TUHINA MUKHERJEE (17510001160011)



DR. SANGEETA DAS
CONSULTANT GENERAL MEDICINE MBBS

MITHU MONDAL
TECHNICIAN

11/02/2023 11:45 AM

PREPARED BY	: SHAWLI MITRA(307739)	PREPARED ON	: 11/02/2023 12:05 PM
GENERATED BY	: MADHUPARNA DASGUPTA(333433)	GENERATED ON	: 22/02/2023 04:49 PM

Patient Name	Tuhina Mukherjee	Requested By	EXTERNAL
MRN	17510001160011	Procedure DateTime	2023-02-11 10:19:39
Age/Sex	46Y/Female	Hospital	NH-RTIICS

USG OF WHOLE ABDOMEN (SCREENING)

LIVER:

It is normal in size, contour and echogenicity. No focal SOL is seen. The intrahepatic biliary radicles are not dilated.

PORTAL VEIN:

The portal vein is normal in calibre at the porta. There is no intraluminal thrombus. No collaterals are seen.

GALL BLADDER:

It is operated.

CBD:

The common duct is not dilated at porta. No intraluminal calculus is seen.

SPLEEN:

It is normal in size measuring 8.9 cm and echogenicity. No focal SOL is seen. The splenoportal axis is patent and is normal in dimensions.

PANCREAS:

It is normal in size, contour and echogenicity. The duct is not dilated. No calcification or focal SOL is seen.

KIDNEYS:

Both kidneys are normal in size, position, contour and echogenicity. The corticomedullary differentiation is maintained. No hydronephrosis, calculus or mass is seen.

Right kidney and left kidney measures 10.0 x 3.1 cm and 9.4 x 4.1 cm respectively.

URINARY BLADDER:

It is normal in capacity and contour. The wall is not thickened. No intraluminal calculus or mass is seen.

UTERUS & OVARIES:

Not visualised (history of operation).

No ascites is seen.

IMPRESSION:

- Normal study.

NOT FOR MEDICO LEGAL PURPOSES

This is only a Radiological Impression and not Diagnosis. Like all diagnostic modalities, USG also has its limitations. Therefore USG report should be interpreted in correlation with clinical and pathological findings.

All typing and topographical error is regretted and if detected at any time is correctable. Please inform us immediately.



Dr. Sarbari Chatterjee

Consultant Radiologist

Patient Name	Tuhina Mukherjee	Requested By	
MRN	17510001160011	Procedure DateTime	2023-02-11 09:28:24
Age/Sex	46Y/Female	Hospital	NH-RTIICS

CHEST RADIOGRAPH (PA VIEW)

FINDINGS :

- Trachea is normal and is central.
- The cardiac shadow is normal in contour.
- Mediastinum and great vessels are within normal limits.
- The hilar shadows are within normal limits.
- The costo-phrenic angles are clear.
- The lung fields and bronchovascular markings appear normal.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

IMPRESSION:

- **No significant radiological abnormality detected.**

NOT FOR MEDICO LEGAL PURPOSES

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A handwritten signature in black ink, appearing to be 'Sc' or similar initials, written in a cursive style.

Dr. Sarbari Chatterjee
Consultant Radiologist