

**DEPARTMENT OF LABORATORY MEDICINE**

Final Report

Patient Name : Ms Sucheta Patra MRN : 17510001227008 Gender/Age : FEMALE , 32y (31/05/1991)

Collected On : 31/10/2023 11:04 AM Received On : 31/10/2023 12:05 PM Reported On : 31/10/2023 01:33 PM

Barcode : BR2310310034 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**IMMUNOHAEMATOLOGY**

Test	Result	Unit
<b>BLOOD GROUP &amp; RH TYPING</b>		
Blood Group (Column Agglutination Technology)	B	-
RH Typing (Column Agglutination Technology)	Positive	-

--End of Report--



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

**Note**

- Abnormal results are highlighted.
- Results relate to the sample only.
- Kindly correlate clinically.



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Patient Name : Ms Sucheta Patra MRN : 17510001227008 Gender/Age : FEMALE , 32y (31/05/1991)

Collected On : 31/10/2023 11:04 AM Received On : 31/10/2023 11:17 AM Reported On : 31/10/2023 12:13 PM

Barcode : 802310310407 Specimen : Serum Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**CLINICAL CHEMISTRY**

Test	Result	Unit	Biological Reference Interval
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**SERUM CREATININE**

Serum Creatinine (Two Point Rate - Creatinine Aminohydrolase)	0.56	mg/dL	0.52-1.04
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eGFR	125.5	mL/min/1.73m <sup>2</sup>	-
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<b>Blood Urea Nitrogen (BUN)</b> (Endpoint /Colorimetric - Urease)	<b>6.03 L</b>	mg/dL	7.0-17.0
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<b>Serum Sodium</b> (Direct ISE - Potentiometric)	138	mmol/L	137.0-145.0
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<b>Serum Potassium</b> (Direct ISE - Potentiometric)	4.2	mmol/L	3.5-5.1
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**LIPID PROFILE (CHOL,TRIG,HDL,LDL,VLDL)**

Cholesterol Total (Colorimetric - Cholesterol Oxidase)	146	mg/dL	Desirable: < 200 Borderline High: 200-239 High: > 240
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Triglycerides (Enzymatic Endpoint Colorimetric )	117	mg/dL	Normal: < 150 Borderline: 150-199 High: 200-499 Very High: > 500
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HDL Cholesterol (HDLC) (Colorimetric: Non HDL Precipitation Phosphotungstic Acid Method)	42	mg/dL	40.0-60.0
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Non-HDL Cholesterol	104.0	-	-
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LDL Cholesterol (Non LDL Selective Elimination, CHOD/POD)	84.78	mg/dL	Optimal: < 100 Near to above optimal: 100-129 Borderline High: 130-159 High: 160-189 Very High: > 190
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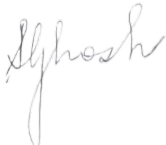
VLDL Cholesterol (Calculated)	23.4	mg/dL	0.0-40.0
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Cholesterol /HDL Ratio	3.5	-	-
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**LIVER FUNCTION TEST(LFT)**

Patient Name : Ms Sucheta Patra    MRN : 17510001227008    Gender/Age : FEMALE , 32y (31/05/1991)			
Bilirubin Total (Colorimetric -Diazo Method)	0.94	mg/dL	0.2-1.3
Conjugated Bilirubin (Direct) (Calculated)	0.22	mg/dL	0.0-0.4
Unconjugated Bilirubin (Indirect) (Colorimetric Endpoint)	0.72	-	-
Total Protein (Biuret Method)	7.80	g/dL	6.3-8.2
Serum Albumin (Colorimetric - Bromo-Cresol Green)	4.30	gm/dL	3.5-5.0
Serum Globulin (Calculated)	3.5	g/dL	2.0-3.5
Albumin To Globulin (A/G)Ratio (Calculated)	1.23	-	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))	20	U/L	<35.0
Alkaline Phosphatase (ALP) (Multipoint-Rate - P-nitro Phenyl Phosphate, AMP Buffer)	63	IU/L	38.0-126.0
Gamma Glutamyl Transferase (GGT) (Multipoint Rate - L-glutamyl-p-nitroanilide ( Szasz Method))	16	U/L	12.0-43.0

--End of Report--



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



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

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- Kindly correlate clinically.  
(LFT, -> Auto Authorized)  
(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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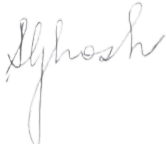
Barcode : 802310310407 Specimen : Serum Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**CLINICAL CHEMISTRY**

Test	Result	Unit	Biological Reference Interval
<b>THYROID PROFILE (T3, T4, TSH)</b>			
Tri Iodo Thyronine (T3) (Enhanced Chemiluminescence Immunoassay (CLIA))	1.29	ng/mL	0.97-1.69
Thyroxine (T4) (Enhanced Chemiluminescence Immunoassay (CLIA))	<b>11.3 H</b>	µg/dl	5.53-11.0
TSH (Thyroid Stimulating Hormone) (Enhanced Chemiluminescence Immunoassay (CLIA))	2.541	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

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Collected On : 31/10/2023 11:04 AM Received On : 31/10/2023 11:18 AM Reported On : 31/10/2023 12:18 PM

Barcode : 812310310234 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**HAEMATOLOGY LAB**

Test	Result	Unit	Biological Reference Interval
<b>COMPLETE BLOOD COUNT (CBC)</b>			
Haemoglobin (Hb%) (Photometric Measurement)	<b>10.6 L</b>	g/dL	12.0-15.0
Red Blood Cell Count (Electrical Impedance)	4.79	millions/ $\mu$ L	3.8-4.8
PCV (Packed Cell Volume) / Hematocrit (Calculated)	<b>33.9 L</b>	%	36.0-46.0
MCV (Mean Corpuscular Volume) (Derived From RBC Histogram)	<b>70.7 L</b>	fL	83.0-101.0
MCH (Mean Corpuscular Haemoglobin) (Calculated)	<b>22.1 L</b>	pg	27.0-32.0
MCHC (Mean Corpuscular Haemoglobin Concentration) (Calculated)	<b>31.2 L</b>	%	31.5-34.5
Red Cell Distribution Width (RDW) (Calculated)	<b>16.6 H</b>	%	11.6-14.0
Platelet Count (Electrical Impedance)	<b>130 L</b>	$10^3/\mu$ L	150.0-400.0
checked			
Mean Platelet Volume (MPV) (Derived)	<b>15.5 H</b>	fL	7.0-11.7
Total Leucocyte Count(WBC) (Electrical Impedance)	6.1	$10^3/\mu$ L	4.0-10.0
<b>DIFFERENTIAL COUNT (DC)</b>			
Neutrophils (VCSn Technology)	69.9	%	40.0-75.0
Lymphocytes (VCSn Technology)	22.5	%	20.0-40.0
Monocytes (VCSn Technology)	5.9	%	2.0-10.0

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Eosinophils (VCSn Technology)	1.5	%	1.0-6.0
Basophils (VCSn Technology)	0.2	%	0.0-2.0
Absolute Neutrophil Count (Calculated)	4.26	10 <sup>3</sup> /μL	1.8-7.8
Absolute Lymphocyte Count (Calculated)	1.37	10 <sup>3</sup> /μL	1.0-4.8
Absolute Monocyte Count (Calculated)	0.36	10 <sup>3</sup> /μL	0.0-0.8
Absolute Eosinophil Count (Calculated)	0.09	10 <sup>3</sup> /μL	0.0-0.45
Absolute Basophil Count (Calculated)	0.01	10 <sup>3</sup> /μL	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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Barcode : 812310310233 Specimen : Whole Blood - ESR Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**HAEMATOLOGY LAB**

Test	Result	Unit	Biological Reference Interval
<b>Erythrocyte Sedimentation Rate (ESR)</b> (Modified Westergren Method)	<b>62 H</b>	mm/1hr	0.0-12.0

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Barcode : 802310310408 Specimen : Plasma Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**CLINICAL CHEMISTRY**

Test	Result	Unit	Biological Reference Interval
<b>FASTING BLOOD GLUCOSE (FBG)</b> (Glucose Oxidase, Peroxidase)	86	mg/dL	Normal: 70-99 Pre-diabetes: 100-125 Diabetes: => 126 ADA standards 2019

--End of Report--



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- (FASTING BLOOD GLUCOSE (FBG) -> Auto Authorized)



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Barcode : 802310310409 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)

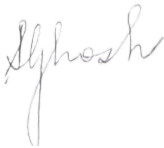
Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**CLINICAL CHEMISTRY**

Test	Result	Unit	Biological Reference Interval
<b>HBA1C</b>			
HbA1c (HPLC)	5.2	%	Normal: 4.0-5.6 Prediabetes: 5.7-6.4 Diabetes: => 6.5 ADA standards 2019 (Carpenter/ Coustan)
Estimated Average Glucose	102.54	-	-

**Interpretation:**  
1. 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.  
2. 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.  
3. Any sample with >15% should be suspected of having a haemoglobin variant.

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 Barcode : 822310310046 Specimen : Urine Consultant : EXTERNAL(EXTERNAL)  
 Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9933701665

**CLINICAL PATHOLOGY**

Test	Result	Unit	Biological Reference Interval
<b>URINE ROUTINE &amp; MICROSCOPY</b>			
<b>PHYSICAL EXAMINATION</b>			
Volume	40	ml	-
Colour	Pale Yellow	-	-
Appearance	Cloudy	-	-
<b>CHEMICAL EXAMINATION</b>			
pH(Reaction) (Mixed PH Indicator)	7.5	-	4.8-7.5
Sp. Gravity (Dual Wavelength Reflectance )	1.004	-	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)	Trace	-	-
Blood Urine (Pseudo - Enzymatic Test, Organic Peroxidase And Chromogen)	Trace	-	-
Nitrite (Modified Griess Reaction)	Negative	-	Negative

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### MICROSCOPIC EXAMINATION

Pus Cells	10-15	/hpf	1-2
RBC	0-2	/hpf	0 - 3
Epithelial Cells	15-20	/hpf	2-3
Crystals	NIL	-	-
Casts	NIL	-	-

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