

Patient Name : Mr. VINAYAK PRATAP SINGH	Visit No : CHA250046738
Age/Gender : 10 Y/M	Registration ON : 17/Mar/2025 10:03AM
<b>Lab No : 10144033</b>	Sample Collected ON : 17/Mar/2025 10:47AM
Referred By : Dr. VIDHYA GYAN SCHOOL	Sample Received ON : 17/Mar/2025 10:47AM
Refer Lab/Hosp : CREDIT CLIENT	Report Generated ON : 17/Mar/2025 01:40PM
Doctor Advice : FASTING,CBC (WHOLE BLOOD),ESR,LIPID-PROFILE,PROTEIN ,Albumin,GLOBULIN,AG RATIO,BILIRUBIN TDI,ALK PHOS,CALCIUM,URIC ACID,CREATININE,BUN CREATININE RATIO,BUN,NA+K+,CHLORIDE,TIBC,Iron,TRANSFERRIN SATURAT	



**VIDHYA GYAN**

Test Name	Result	Unit	Bio. Ref. Range	Method
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<b>ESR</b>				
Erythrocyte Sedimentation Rate ESR	<b>18.00</b>		3- 13	Westergreen

**Note:**

1. Test conducted on EDTA whole blood at 37°C.
2. ESR readings are auto- corrected with respect to Hematocrit (PCV) values.
3. It indicates presence and intensity of an inflammatory process. It is a prognostic test and used to monitor the course or response to treatment of diseases like tuberculosis, acute rheumatic fever. It is also increased in multiple myeloma, hypothyroidism.

<b>HBA1C</b>				
Glycosylated Hemoglobin (HbA1c)	5.0	%	4 - 5.7	HPLC (EDTA)

**NOTE:-**

Glycosylated Hemoglobin Test (HbA1c) is performed in this laboratory by the Gold Standard Reference method, ie: HPLC Technology (High performance Liquid Chromatography D10) from Bio-Rad Laboratories. USA.

**EXPECTED ( RESULT ) RANGE :**

Bio system	Degree of normal
4.0 - 5.7 %	Normal Value (OR) Non Diabetic
5.8 - 6.4 %	Pre Diabetic Stage
> 6.5 %	Diabetic (or) Diabetic stage
6.5 - 7.0 %	Well Controlled Diabet
7.1 - 8.0 %	Unsatisfactory Control
> 8.0 %	Poor Control and needs treatment

<b>BLOOD UREA NITROGEN</b>				
Blood Urea Nitrogen (BUN)	8.41	mg/dL	7-21	calculated

<b>BUN CREATININE RATIO</b>				
BUN CREATININE RATIO	12.52			



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DR. NISHANT SHARMA DR. SHADAB Dr. SYED SAIF AHMAD  
PATHOLOGIST PATHOLOGIST MD (MICROBIOLOGY)

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**URIC ACID**

Sample Type : SERUM

SERUM URIC ACID	2.5	mg/dL	2.40 - 5.70	Uricase,Colorimetric
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**SERUM CALCIUM**

CALCIUM	9.8	mg/dl	8.8 - 10.8	dapta / arsenazo III
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**INTERPRETATION:**

-Calcium level is increased in patients with hyperparathyroidism, Vitamin D intoxication, metastatic bone tumor, milk-alkali syndrome, multiple myeloma, Paget's disease.  
-Calcium level is decreased in patients with hemodialysis, hypoparathyroidism (primary, secondary), vitamin D deficiency, acute pancreatitis, diabetic Keto-acidosis, sepsis, acute myocardial infarction (AMI), malabsorption, osteomalacia, renal failure, rickets.

**PROTEIN**

PROTEIN Serum	7.60	mg/dl	6.8 - 8.5
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**SERUM ALBUMIN**

ALBUMIN	4.5	gm/dl	3.20 - 5.50	Bromcresol Green (BCG)
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**GLOBULIN**

GLOBULIN	3.10	gm/dl	2.0 - 3.5	calculated
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**AG RATIO**

AG RATIO	1.45		1.5 : 1
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Test Name	Result	Unit	Bio. Ref. Range	Method
<b>LIPID-PROFILE</b>				
Cholesterol/HDL Ratio	3.09	Ratio		Calculated
LDL / HDL RATIO	1.55	Ratio		Calculated
			Desirable / low risk - 0.5 -3.0	
			Low/ Moderate risk - 3.0-6.0	
			Elevated / High risk - >6.0	
			Desirable / low risk - 0.5 -3.0	
			Low/ Moderate risk - 3.0-6.0	
			Elevated / High risk - > 6.0	

**CHLORIDE**

CHLORIDE	98.00	mmol/l	98 - 107	ISE Indirect
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**Increased In:**

Renal tubular diseases, Respiratory alkalosis, Drugs: Excessive administration of certain drugs (e.g., ammonium chloride, IV saline), Retention of salt and water (e.g., corticosteroids), Some cases of hyperparathyroidism, Diabetes insipidus, dehydration.

**Decreased In:**

Prolonged vomiting, Chronic respiratory acidosis, Salt-losing renal diseases, Adrenocortical insufficiency, Primary aldosteronism, Burns, Chronic laxative abuse

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Test Name	Result	Unit	Bio. Ref. Range	Method
<b>IRON</b>				
IRON	53.30	ug/ dl	59 - 148	Ferrozine-no deproteinization

**Interpretation:**

Disease	Iron	TIBC	UIBC	%Transferrin Saturation	Ferritin
Iron Deficiency	Low	High	High	Low	Low
Hemochromatosis	High	Low	Low	High	High
Chronic Illness	Low	Low	Low/Normal	Low	Normal/High
Hemolytic Anemia	High	Normal/Low	Low/Normal	High	High
Sideroblastic Anemia	Normal/High	Normal/Low	Low/Normal	High	High
Iron Poisoning	High	Normal	Low	High	Normal

<b>TIBC</b>				
TIBC	389.00	ug/ml	265 - 497	calculated

<b>TRANSFERRIN SATURATION</b>				
TRANSFERRIN SATURATION	14.21	%	22 - 45	Immunoturbidimetry

**INTERPRETATION:**

- Low Values in iron deficiency
- High Values in iron overload
- Raised transferrin saturation is an early indicator of Iron accumulation in Genetic Haemochromatosis.

<b>FERRITIN</b>				
FERRITIN	33.6	ng/mL	7 - 140	CLIA

**INTERPRETATION:**

Ferritin is a high-molecular weight iron containing protein that functions in the body as an iron Storage compound. Ferritin provides a more sensitive, specific and reliable measurement for determining iron deficiency at an early stage. The combined use of serum ferritin levels and mean corpuscular volume (MCV) has made differentiation between iron deficiency, beta-thalassemia trait and normal subjects possible at a very high level of accuracy. Serum ferritin measurements provide important clinical parameters for assessing the response to treatment with deferoxamine, in the treatment of thalassemia. Elevated levels are seen in malignant diseases such as leukemia, Hodgkins disease, breast cancer, head and neck cancer and ovarian cancer.

**LIMITATIONS:**

Specimens from patients who have received preparations of mouse monoclonal antibodies for diagnosis or therapy may show either false positive or depressed values.  
For diagnostic purposes the ferritin result should be used in conjunction with other data, e.g.: symptoms, results of other tests, clinical impressions, etc.



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**URINE EXAMINATION REPORT**

Colour-U	STRAW		Light Yellow	
Appearance (Urine)	CLEAR		Clear	
Specific Gravity	<b>1.015</b>		1.005 - 1.025	
pH-Urine	Acidic (6.0)		4.5 - 8.0	
PROTEIN	Absent	mg/dl	ABSENT	Dipstick
Glucose	Absent			
Ketones	Absent		Absent	
Bilirubin-U	Absent		Absent	
Blood-U	Absent		Absent	
Urobilinogen-U	0.20	EU/dL	0.2 - 1.0	
Leukocytes-U	Absent		Absent	
NITRITE	Absent		Absent	
<b>MICROSCOPIC EXAMINATION</b>				
Pus cells / hpf	Nil	/hpf	< 5/hpf	
Epithelial Cells	1-2	/hpf	0 - 5	
RBC / hpf	Nil		< 3/hpf	

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<b>CBC (COMPLETE BLOOD COUNT)</b>				
Hb	11.1	g/dl	11 - 15	Non Cyanide
R.B.C. COUNT	4.70	mil/cmm	4 - 5.1	Electrical Impedence
PCV	36.8	%	31 - 43	Pulse height detection
MCV	78.8	fL	76 - 87	calculated
MCH	<b>23.8</b>	pg	26 - 28	Calculated
MCHC	<b>30.2</b>	g/dL	33 - 35	Calculated
RDW	14.5	%	11 - 15	RBC histogram derivation
RETIC	0.9%	%	0.3 - 1	Microscopy
TOTAL LEUCOCYTES COUNT	12170	/cmm	4500 - 13500	Floctometry
<b>DIFFERENTIAL LEUCOCYTE COUNT</b>				
NEUTROPHIL	66	%	40 - 70	Flowcytometry
LYMPHOCYTES	26	%	25 - 55	Flowcytometry
EOSINOPHIL	5	%	1 - 6	Flowcytometry
MONOCYTE	3	%	0 - 8	Flowcytometry
BASOPHIL	<b>0</b>	%	00 - 01	Flowcytometry
PLATELET COUNT	<b>467,000</b>	/cmm	150000 - 450000	Elect Imped..
PLATELET COUNT (MANUAL)	<b>467000</b>	/cmm	150000 - 450000	Microscopy .
Absolute Neutrophils Count	<b>8,032</b>	/cmm	2000 - 7000	Calculated
Absolute Lymphocytes Count	3,164	/cmm	1000-3000	Calculated
Absolute Eosinophils Count	608	/cmm	20-500	Calculated
Absolute Monocytes Count	365	/cmm	200-1000	Calculated
Mentzer Index	17			
Peripheral Blood Picture	:			

RBC are normocytic normochromic. WBC are within normal limits. Platelets are adequate in number.



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<b>FASTING</b>				
Blood Sugar Fasting	96.9	mg/dl	70 - 110	Hexokinase
<b>NA+K+</b>				
SODIUM Serum	142.0	MEq/L	135 - 155	ISE Direct
POTASSIUM Serum	3.9	MEq/L	3.5 - 5.5	ISE Direct
<b>SERUM CREATININE</b>				
CREATININE	0.60	mg/dl	0.50 - 1.40	Alkaline picrate-kinetic
<b>BILIRUBIN TDI</b>				
TOTAL BILIRUBIN	0.50	mg/dl	0.4 - 1.1	Diazonium Ion
DIRECT BILIRUBIN	0.02	mg/dL	0-0.3	DIAZOTIZATION
BILIRUBIN (INDIRECT)	0.48	mg/dl	0.1 - 1.00	CALCULATED
<b>ALK PHOS</b>				
ALK PHOS	324.00	U/L	129 - 417	PNPP, AMP Buffer

**INTERPRETATION:**

- Alkaline phosphatase is an enzyme found in your bloodstream. ALP helps break down proteins in the body and exists in different forms, depending on where it originates. Liver is one of the main sources of ALP, but some is also made in bones, intestines, pancreas, and kidneys. In pregnant women, ALP is made in the placenta.
- Higher than normal levels of ALP in blood may indicate a problem with liver or gallbladder. This could include hepatitis (liver inflammation), cirrhosis (liver scarring), liver cancer, gallstones, or a blockage in bile ducts. High levels may also indicate an issue related to the bones such as rickets, Paget's disease, bone cancer, or an overactive parathyroid gland. In rare cases, high ALP levels can indicate heart failure, kidney cancer, other cancer, mononucleosis, or bacterial infection. Having lower than normal ALP levels in blood is rare, but can indicate malnutrition, which could be caused by celiac disease or a deficiency in certain vitamins and minerals.



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<b>LIPID-PROFILE</b>				
TOTAL CHOLESTEROL	125.00	mg/dL	Desirable: <200 mg/dl Borderline-high: 200-239 mg/dl High:>=240 mg/dl	CHOD-PAP
TRIGLYCERIDES	110.00	mg/dL	Normal: <150 mg/dl Borderline-high:150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>=500 mg/dl	Serum, Enzymatic, endpoint
H D L CHOLESTEROL	40.40	mg/dL	30-70 mg/dl	CHER-CHOD-PAP
L D L CHOLESTEROL	62.60	mg/dL	Optimal:<100 mg/dl Near Optimal:100 - 129 mg/dl Borderline High: 130 - 159 mg/dl High: 160 - 189 mg/dl Very High:>= 190 mg/dl	CO-PAP
VLDL	22.00	mg/dL	10 - 40	Calculated

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

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