

Lab Address:- # Plot No. 564, 1st floor, Buddhanagar, Near Sai Baba Temple Peerzadiguda Boduppal Hyderabad, Telangana. ICMR Reg. No. SAPALAPVLHT (Covid -19)

#### REPORT

Name : Mrs. SUMAN LATHA

Age/Gender : 59 Years/Female Referred by : Dr. ROHIT REDDY

Referring Customer : V CARE MEDICAL DIAGNOSTICS

Primary Sample : Whole Blood

Sample Tested In : Serum

Client Address : Kimtee colony ,Gokul Nagar,Tarnaka

Sample ID : A0094119

Reg. No : 0312403310002

SPP Code : SPL-CV-172

Collected On : 31-Mar-2024 08:09 AM

Received On : 31-Mar-2024 03:01 PM

Reported On : 31-Mar-2024 05:28 PM

Report Status : Final Report

#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name Results Units Ref. Range Method

C-Reactive protein-(CRP) 53.65 mg/L Upto:6.0 Immunoturbidimetry

#### **Interpretation:**

C-reactive protein (CRP) is produced by the liver. The level of CRP rises when there is inflammation throughout the body. It is one of a group of proteins called acute phase reactants that go up in response to inflammation. The levels of acute phase reactants increase in response to certain inflammatory proteins called cytokines. These proteins are produced by white blood cells during inflammation.

A positive test means you have inflammation in the body. This may be due to a variety of conditions, including:

- Connective tissue disease
- Heart attack
- Infection
- Inflammatory bowel disease (IBD)
- Lupus
- Pneumonia
- Rheumatoid arthritis

#### **Estimated Glomerular Filtration Rate (eGFR):**

GFR by MDRD Formula 100 mL/min/1.73m2 69 - 122 Calculated



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## REPORT

Name : Mrs. SUMAN LATHA Sample ID : A0094122 Reg. No Age/Gender : 59 Years/Female : 0312403310002 Referred by : Dr. ROHIT REDDY SPP Code : SPL-CV-172 Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 31-Mar-2024 08:09 AM : 31-Mar-2024 03:01 PM Primary Sample : Whole Blood Received On Sample Tested In : Whole Blood EDTA Reported On 31-Mar-2024 05:02 PM

Client Address : Kimtee colony , Gokul Nagar, Tarnaka Report Status : Final Report

# HAEMATOLOGY HEALTH PACKAGE - B

#### **Test Name** Results **Units** Ref. Range Method Complete Blood Picture(CBP) Haemoglobin (Hb) 13.2 g/dL 12-15 Cynmeth Method Haematocrit (HCT) 38.9 40-50 Calculated 10^12/L **RBC Count** 4.66 4.5-5.5 Cell Impedence MCV 84 81-101 Calculated **MCH** Calculated 28.3 27-32 pg **MCHC** Calculated 33.9 g/dL 32.5-34.5 Calculated RDW-CV 13.4 11.6-14.0 Platelet Count (PLT) 333 10^9/L 150-410 Cell Impedance **Total WBC Count** 12.0 10^9/L 4.0-10.0 Impedance **Differential Leucocyte Count (DC)** % Neutrophils 73 40-70 Cell Impedence Lymphocytes 21 20-40 Cell Impedence 2-10 Monocytes 03 % Microscopy Eosinophils 03 % 1-6 Microscopy **Basophils** n % 1-2 Microscopy Absolute Neutrophils Count 8.76 10^9/L 2.0-7.0 Impedence 1.0-3.0 Absolute Lymphocyte Count 2.52 10^9/L Impedence Absolute Monocyte Count 0.36 10^9/L 0.2 - 1.0Calculated Calculated Absolute Eosinophils Count 0.36 10^9/L 0.02-0.5 Absolute Basophil ICount 0.00 10^9/L 0.0-0.3 Calculated Normocytic normochromic with Neutrophilic Leucocytosis PAPs Staining Morphology

Comments: ESR is an acute phase reactant which indicates presence and intensity of an inflammatory process. It is never diagnostic of a specific disease. It is used to monitor the course or response to treatment of certain diseases. Extremely high levels are found in cases of malignancy, hematologic diseases, collagen disorders and renal diseases.

12 or less





**Erythrocyte Sedimentation Rate (ESR)** 



16

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Westergren method





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#### REPORT

Name : Mrs. SUMAN LATHA Sample ID : A0094121, A0094122, A00941

Age/Gender : 59 Years/Female Reg. No : 0312403310002

Referred by : Dr. ROHIT REDDY SPP Code : SPL-CV-172
Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 31-Mar-2024 08:09 AM

Primary Sample : Whole Blood Received On : 31-Mar-2024 03:01 PM

Primary Sample : Whole Blood Received On : 31-Mar-2024 03:01 PM Sample Tested In : Plasma-NaF(F), Whole Blood EDT Reported On : 31-Mar-2024 06:26 PM

Client Address : Kimtee colony ,Gokul Nagar,Tarnaka Report Status : Final Report

#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name Results Units Ref. Range Method

Glucose Fasting (F) 95 mg/dL 70-100 GOD-POD

Interpretation of Plasma Glucose based on ADA guidelines 2018

Diagnosis	FastingPlasma Glucose(mg/dL)	2hrsPlasma Glucose(mg/dL)	HbA1c(%)	RBS(mg/dL)
Prediabetes	100-125	140-199	5.7-6.4	NA
Diabetes	>= 126	>= 200	ll I	>=200(with symptoms)

Reference: Diabetes care 2018:41(suppl.1):S13-S27

Glycated Hemoglobin (HbA1c) 5.7 % Non Diabetic: < 5.7 HPLC

Pre diabetic: 5.7-6.4

Diabetic:>= 6.5

Mean Plasma Glucose116.89mg/dLCalculated

#### Interpretation:

- Glycated hemoglobins (GHb), also called glycohemoglobins, are substances formed when glucose binds to hemoglobin, and occur in amounts proportional to the concentration of serum glucose. Since red blood cells survive an average of 120 days, the measurement of GHb provides an index of a person's average blood glucose concentration (glycemia) during the preceding 2-3 months. Normally, only 4% to 6% of hemoglobin is bound to glucose, while elevated glycohemoglobin levels are seen in diabetes and other hyperglycemic states
- Mean Plasma Glucose(MPG): This Is Mathematical Calculations Where Glycated Hb Can Be Correlated With Daily Mean Plasma Glucose Level

Calcium9.1mg/dL8.5-10.1o-cresolphthalein<br/>complexone (OCPC)











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#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name	Results	Units	Ref. Range	Method
25 - Hydroxy Vitamin D	30.21	ng/mL	<20.0-Deficiency 20.0-<30.0-Insufficiency 30.0-100.0-Sufficiency >100.0-Potential Intoxication	CLIA

#### **Interpretation:**

- **1.** Vitamin D helps your body absorb calcium and maintain strong bones throughout your entire life. Your body produces vitamin D when the sun's UV rays contact your skin. Other good sources of the vitamin include fish, eggs, and fortified dairy products. It's also available as a dietary supplement.
- 2. Vitamin D must go through several processes in your body before your body can use it. The first transformation occurs in the liver. Here, your body converts vitamin D to a chemical known as 25-hydroxyvitamin D, also called calcidiol.
- 3. The 25-hydroxy vitamin D test is the best way to monitor vitamin D levels. The amount of 25-hydroxyvitamin D in your blood is a good indication of how much vitamin D your body has. The test can determine if your vitamin D levels are too high or too low.
- **4.**The test is also known as the 25-OH vitamin D test and the calcidiol 25-hydroxycholecalcifoerol test. It can be an important indicator of osteoporosis (bone weakness) and rickets (bone malformation).

#### Those who are at high risk of having low levels of vitamin D include:

1.people who don't get much exposure to the sun

2.older adults

3.people with obesity.

4. dietary deficiency

Increased Levels: Vitamin D Intoxication

Method : CLIA

Vitamin- B12 (cyanocobalamin) 481 pg/mL 200-911 CLIA

#### Interpretation

This test is most often done when other blood tests suggest a condition called megaloblastic anemia. Pernicious anemia is a form of megaloblastic anemia caused by poor vitamin B12 absorption. This can occur when the stomach makes less of the substance the body needs to properly absorb vitamin B12.

#### Causes of vitamin B12 deficiency include:Diseases that cause malabsorption

- 1.Lack of intrinsic factor, a protein that helps the intestine absorb vitamin B12
- 2. Above normal heat production (for example, with hyperthyroidism)

#### An increased vitamin B12 level is uncommon in:

- 1.Liver disease (such as cirrhosis or hepatitis)
- 2. Myeloproliferative disorders (for example, polycythemia vera and chronic myelogenous leukemia)

Result rechecked and verified for abnormal cases

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

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Primary Sample : Whole Blood Received On : 31-Mar-2024 08:09 AM

Sample Tested In : Serum Reported On : 31-Mar-2024 05:21 PM

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#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name	Results	Units	Ref. Range	Method	
Lipid Profile					
Cholesterol Total	152	mg/dL	< 200	CHOD-POD	
Triglycerides-TGL	99	mg/dL	< 150	GPO-POD	
Cholesterol-HDL	46	mg/dL	40-60	Direct	
Cholesterol-LDL	86.2	mg/dL	< 100	Calculated	
Cholesterol- VLDL	19.8	mg/dL	7-35	Calculated	
Non HDL Cholesterol	106	mg/dL	< 130	Calculated	
Cholesterol Total /HDL Ratio	3.3	%	0-4.0	Calculated	
HDL / LDL Ratio	0.53				
LDL/HDL Ratio	1.87	%	0-3.5	Calculated	

The National Cholesterol Education program's third Adult Treatment Panel (ATPIII) has issued its recommendations on evaluating and treating lipid discorders for primary and secondary.

NCEP Recommendations	Cholesterol Total in (mg/dL)	Triglycerides in (mg/dL)	HDL Cholesterol (mg/dL)	LDL Cholesterol in (mg/dL)	Non HDL Cholesterol in (mg/dL)
Optimal	Adult: < 200 Children: < 170	< 150	40-59	Adult:<100 Children: <110	<130
Above Optimal				100-129	130 - 159
Borderline High	Adult: 200-239 Children:171-199	150-199		Adult: 130-159 Children: 111-129	160 - 189
High	Adult:>or=240 Children:>or=200	200-499	≥ 60	Adult:160-189 Children:>or=130	190 - 219
Very High		>or=500		Adult: >or=190	>=220

Note: LDL cholesterol cannot be calculated if triglyceride is >400 mg/dL (Friedewald's formula). Calculated values not provided for LDL and VLDL











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#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name	Results	Units	Ref. Range	Method
Kidney Profile-KFT				
Creatinine -Serum	0.70	mg/dL	0.60-1.10	Sarcosine oxidase
Urea-Serum	15.3	mg/dL	12.8-42.8	Glutamate dehydrogenase+Calculation
Blood Urea Nitrogen (BUN)	7.15	mg/dL	7.0-18.0	Calculated
BUN / Creatinine Ratio	10.21		6 - 22	
Uric Acid	3.35	mg/dL	2.6-6.0	Uricase
Sodium	141	mmol/L	136-145	ISE Direct
Potassium	4.2	mmol/L	3.5-5.1	ISE Direct
Chloride	105	mmol/L	98-108	ISE Direct
Liver Function Test (LFT)				
Bilirubin(Total)	1.0	mg/dL	0.3-1.2	Diazo
Bilirubin (Direct)	0.2	mg/dL	0.0 - 0.2	Diazo
Bilirubin (Indirect)	0.8	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	14	U/L	5-40	IFCC with out (P-5-P)
Alanine Aminotransferase (ALT/SGPT)	11	U/L	0-55	IFCC with out (P-5-P)
Alkaline Phosphatase(ALP)	120	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	21	U/L	5-55	IFCC
Protein - Total	6.7	g/dL	6.4-8.2	Biuret
Albumin	3.9	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	2.8	g/dL	2.0-4.2	Calculated
A:G Ratio	1.39	%	0.8-2.0	Calculated
SGOT/SGPT Ratio	1.27			

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

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#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B** Unite

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Thyroid Profile-I(TFT)					
T3 (Triiodothyronine)	127.76	ng/dL	40-181	CLIA	
T4 (Thyroxine)	8.9	μg/dL	3.2-12.6	CLIA	
TSH -Thyroid Stimulating Hormone	2.53	μIU/mL	0.35-5.5	CLIA	

#### Pregnancy & Cord Blood

Toet Name

T3 (Triiodothyronine):		T4 (Thyroxine)	TSH (Thyroid Stimulating Hormone)
First Trimester	: 81-190 ng/dL	15 to 40 weeks:9.1-14.0 μg/dL	First Trimester : 0.24-2.99 µIU/mL
Second&Third Trimester :100-260 ng/dL			Second Trimester: 0.46-2.95 µIU/mL
			Third Trimester : 0.43-2.78 µIU/mL
Cord Blood: 30-70 ng/dL		Cord Blood: 7.4-13.0 µg/dL	Cord Blood: : 2.3-13.2 µIU/mL

#### **Interpretation:**

- Thyroid gland is a butterfly-shaped endocrine gland that is normally located in the lower front of the neck. The thyroid's job is to make thyroid hormones, which are secreted into the blood and then carried to every tissue in the body. Thyroid hormones help the body use energy, stay warm and keep the brain, heart, muscles, and other organs working as they should.
- Thyroid produces two major hormones: triiodothyronine (T3) and thyroxine (T4). If thyroid gland doesn't produce enough of these hormones, you may experience symptoms such as weight gain, lack of energy, and depression. This condition is called hypothyroidism.
- Thyroid gland produces too many hormones, you may experience weight loss, high levels of anxiety, tremors, and a sense of being on a high. This is called hyperthyroidism.
- TSH interacts with specific cell receptors on the thyroid cell surface and exerts two main actions. The first action is to stimulate cell reproduction and hypertrophy. Secondly, TSH stimulates the thyroid gland to synthesize and secrete T3 and T4.
- The ability to quantitate circulating levels of TSH is important in evaluating thyroid function. It is especially useful in the differential diagnosis of primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.











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#### **CLINICAL BIOCHEMISTRY**

#### **HEALTH PACKAGE - B**

Test Name	Results	Units	Ref. Range	Method	
Iron Profile-I					
Iron(Fe)	35	μg/dL	50-170	Ferene	
Total Iron Binding Capacity (TIBC)	415	μg/dL	250-450	Ferene	
Transferrin	290.21	mg/dL	250-380	Calculated	
Iron Saturation((% Transferrin Saturation)	8.43	%	15-50	Calculated	
Unsaturated Iron Binding Capacity (UIBC)	380	ug/dL	110-370	FerroZine	

#### Interpretation:

- Serum transferrin (and TIBC) high, serum iron low, saturation low. Usual causes of depleted iron stores include blood loss, inadequate dietary iron. RBCs in moderately severe iron deficiency are hypochromic and microcytic. Stainable marrow iron is absent. Serum ferritin decrease is the earliest indicator of iron deficiency if inflammation is absent.
- Anemia of chronic disease: Serum transferrin (and TIBC) low to normal, serum iron low, saturation low or normal. Transferrin decreases with many inflammatory diseases. With chronic disease there is a block in movement to and utilization of iron by marrow. This leads to low serum iron and decreased erythropoiesis. Examples include acute and chronic infections, malignancy and renal failure.
- Sideroblastic Anemia: Serum transferrin (and TIBC) normal to low, serum iron normal to high, saturation high.
- Hemolytic Anemia: Serum transferrin (and TIBC) normal to low, serum iron high, saturation high.
- Hemochromatosis: Serum transferrin (and TIBC) slightly low, serum iron high, saturation very high
- Protein depletion: Serum transferrin (and TIBC) may be low, serum iron normal or low (if patient also is iron deficient). This may occur as a result of malnutrition, liver disease, renal disease.
- Liver disease: Serum transferrin variable; with acute viral hepatitis, high along with serum iron and ferritin. With chronic liver disease (eg, cirrhosis), transferrin may be low. Patients who have cirrhosis and portacaval shunting have saturated TIBC/transferrin as well as high ferritin.







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## REPORT

Name: Mrs. SUMAN LATHASample ID: A0093213Age/Gender: 59 Years/FemaleReg. No: 0312403310002Referred by: Dr. ROHIT REDDYSPP Code: SPL-CV-172

Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 31-Mar-2024 08:09 AM Primary Sample : Received On : 31-Mar-2024 03:01 PM

Sample Tested In : Urine Reported On : 31-Mar-2024 05:29 PM

Client Address : Kimtee colony ,Gokul Nagar,Tarnaka Report Status : Final Report

#### **CLINICAL PATHOLOGY**

#### **HEALTH PACKAGE - B**

Test Name Results Units Ref. Range Method

#### Complete Urine Analysis (CUE)

#### **Physical Examination**

Colour Pale Yellow Straw to light amber

Appearance HAZY Clear

#### **Chemical Examination**

Glucose Negative Negative Strip Reflectance Protein Absent Strip Reflectance Negative Bilirubin (Bile) Negative Negative Strip Reflectance Urobilinogen Negative Negative Ehrlichs reagent Ketone Bodies Trace Negative Strip Reflectance 1.015 Specific Gravity 1.000 - 1.030 Strip Reflectance Strip Reflectance Blood Negative Negative 7.0 5.0 - 8.5Reaction (pH) Reagent Strip Reflectance

Nitrites Negative Negative Strip Reflectance

numes negative negative Sup Reflectance

Leukocyte esterase Negative Negative Reagent Strip Reflectance

#### Microscopic Examination (Microscopy)

PUS(WBC) Cells 03-05 /hpf 00-05 Microscopy R.B.C. Nil /hpf Nil Microscopic **Epithelial Cells** 01-02 /hpf 00-05 Microscopic Casts Absent Absent Microscopic Absent Absent Crystals Microscopic Bacteria Nil Nil

Budding Yeast Cells Nil Absent

Correlate Clinically.

Result rechecked and verified for abnormal cases

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







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Microscopy