

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

LABORATORY TEST REPORT

	Name	: Mrs. RENUKA		
	Sample ID	: A1834870		
	Age/Gender	: 48 Years/Female	Reg. No	: 0312412110015
	Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
	Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
	Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
	Sample Tested In	: Whole Blood EDTA	Reported On	: 11-Dec-2024 12:59 PM
L	Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

HAEMATOL OGY

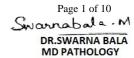
	HAEMATOLOGY					
	SAGE	EPATH CARE	E 1.2			
Test Name	Results	Units	Biological Reference Interval			
COMPLETE BLOOD COUNT (CBC)						
Haemoglobin (Hb) Method: Cymreth Method)	<u>11.5</u>	g/dL	12-15			
RBC Count (Mathad: Call Impedance)	4.53	10^12/L	3.8-4.8			
	<u>37.2</u>	%	40-50			
MCV (Method: Calculated)	82	fl	81-101			
MCH (Method: Calculated)	<u>25.5</u>	pg	27-32			
MCHC (Method: Calculated)	<u>31.0</u>	g/dL	32.5-34.5			
RDW-CV (Method: Calculated)	<u>14.4</u>	%	11.6-14.0			
Platelet Count (PLT) (Method: Cell Impedance)	289	10^9/L	150-410			
	8.1	10^9/L	4.0-10.0			
Neutrophils (Method: Cell Impedence)	58	%	40-70 alth Care			
	4.7	10^9/L	2.0-7.0			
Lymphocytes (Method: Cell Impedence)	35	%	20-40			
Absolute Lymphocyte Count (Method: Impedence)	2.84	10^9/L	1.0-3.0			
(Method: Microscopy)	05	%	2-10			
Absolute Monocyte Count (Method: Calculated)	0.41	10^9/L	0.2-1.0			
Eosinophils (Method: Microscopy)	02	%	1-6			
	0.16	10^9/L	0.02-0.5			
Basophils (Method: Microscopy)	00	%	1-2			
	0.00	10^9/L	0.0-0.3			
Morphology						
WBC	Within Nori	mal Limits				
RBC	Normocytic	normochromic				
Platelets (Method: Microscopy)	Adequate.					

*** End Of Report ***





MC 3633



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Sagepath Labs Pvt. Ltd.

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 11-Dec-2024 01:31 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

	HAEMATOLOGY					
SAGEPATH CARE 1.2						
Test Name	Results	Units Biological Reference Interval				
Erythrocyte Sedimentation Rate (ESR) (Method: Westergren method)	<u>17</u>	mm/hr	10 or less			

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.



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FOSYSTEMS PVT. LTD.

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LABORATORY TEST REPORT

Name	: Mrs. RENUKA		
Sample ID	: A1834867		
Age/Gender	: 48 Years/Female	Reg. No	: 0312412110015
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
Sample Tested In	: Plasma-NaF(F)	Reported On	: 11-Dec-2024 02:14 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY						
SAGEPATH CARE 1.2						
Fest Name		Results	Units	i	Biological Referen	ce Inte
Glucose Fa (Method: Hexokinase)		<u>191</u>	mg/d	L	70-100	
Diagnosis	lasma Glucose based on ADA guidelines 2 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		> = 6.5	>=200(with symptoms)	
Diabetes > = 126 > = 200 > = 6.5 >=200(with symptoms) Reference: Diabetes care 2018:41(suppl.1):S13-S27						

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Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report
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	CLINICAL BIOCHEMISTRY					
	SAGEPATH CARE 1.2					
Test Name Results Units Biological Reference Interval						
Glycated Hemoglobin (HbA1c) (Method: HPLC)	<u>8.7</u>	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5			
Mean Plasma Glucose	202.99	mg/dL				

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

NOTE: The above Given Risk Level Interpretation is not age specific and is an information resource only and is not to be used or relied on for any diagnostic or treatment purposes and should not be used as a substitute for professional diagnosis and treatment. Kindly Correlate clinically.

INTERPRETATION Method: Analyzer Fully automated HPLC platform. HbA1c values of 5.0- 6.5 percent indicate good control or an increased Average Level of Hemoglobin A1c risk for developing diabetes mellitus. HbA1c values greater than 6.5 Blood Glucose(eAG) Control (%) percent are diagnostic of diabetes mellitus. Diagnosis should be (mg/dL) confirmed by repeating the HbA1c test. 421 14% 386 13% 350 L 12% E 314 11% R 279 10% Т 243 9% 208 8% 172 POOR 7% 136 GOOD 6% 101 5% NOTE: Hb F higher than 10 percent of total Hb may yield falsely low results. Conditions that shorten red cell survival, such as the presence

NOTE: Hb F higher than 10 percent of total Hb may yield falsely low results. Conditions that shorten red cell survival, such as the presence of unstable hemoglobins like Hb SS, Hb CC, and Hb SC, or other causes of hemolytic anemia may yield falsely low results. Iron deficiency anemia may yield falsely high results.

*** End Of Report ***







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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
Sample Tested In	: Serum	Reported On	: 11-Dec-2024 02:29 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

	CLINICAL BIOCHEMISTRY					
SAGEPATH CARE 1.2						
Test Name	Results	Units	Biological Reference Interval			
Calcium (Method: Arsenazo)	8.8	mg/dL	8.5-10.1			

Comments:

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- Calcium in the body is found mainly in the bones (approximately 99%). In serum, Calcium exists in a free ionised form and in bound form (with Albumin). Hence, a decrease in Albumin causes lower Calcium levels and vice-versa.
- Calcium levels in serum depend on the Parathyroid Hormone.
- Increased Calcium levels are found in Bone tumors, Hyperparathyroidism. decreased levels are found in Hypoparathyroidism, renal failure, Rickets.

*** End Of Report ***











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LABORATORY TEST REPORT

ſ	Name	: Mrs. RENUKA		
S	Sample ID	: A1834869		
ļ	Age/Gender	: 48 Years/Female	Reg. No	: 0312412110015
F	Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
F	Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
F	Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
	Sample Tested In	: Serum	Reported On	: 11-Dec-2024 02:31 PM
(Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

	CLINICAL BIOCHEMISTRY						
SAGEPATH CARE 1.2							
Test Name	Results	Units	Biological Reference Interval				
Lipid Profile							
Cholesterol Total	197	mg/dL	< 200				
Triglycerides-TGL (Method: GPO-POD)	<u>385</u>	mg/dL	< 150				
Cholesterol-HDL (Method: Direct)	<u>36</u>	mg/dL	40-60				
Cholesterol-LDL (Method: Calculated)	84	mg/dL	< 100				
Cholesterol- VLDL (Method: Calculated)	<u>77</u>	mg/dL	7-35				
Mon HDL Cholesterol	<u>161</u>	mg/dL	< 130				
Cholesterol Total /HDL Ratio	5.47	%	0-4.0				
MDL / LDL Ratio	0.43						
LDL/HDL Ratio (Method: Calculated)	2.33	%	0-3.5				

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)	Trialvooridoe	HDL Cholesterol (mg/dL)	I DI Cholesterol	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
Very High >or=500 reading provide in the calculated if triglyceride is >400 mg/dL (Friedewald's formula). Calculated values not provided for LDL and VLDL					

*** End Of Report ***







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Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM
Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM
Sample Tested In	: Serum	Reported On	: 11-Dec-2024 02:32 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY						
SAGEPATH CARE 1.2						
Test Name Results Units Biological Reference Interval						
Liver Function Test (LFT)						
	0.4	mg/dL	0.3-1.2			
Bilirubin (Direct)	0.1	mg/dL	0.0 - 0.3			
	0.3	mg/dL	0.2-1.0			
Aspartate Aminotransferase (AST/SGOT) (Method: IFCC UV Assay)	20	U/L	15-37			
Alanine Aminotransferase (ALT/SGPT)	19	U/L	0-55			
Alkaline Phosphatase(ALP)	82	U/L	30-120			
	44	U/L	5-55			
Protein - Total	6.7	g/dL	6.4-8.2			
	3.9	g/dL	3.4-5.0			
	2.8	g/dL	2.0-4.2 Care			
	1.39	%	0.8-2.0			
SGOT/SGPT Ratio	1.05					

Alanine Aminotransferase(ALT) is an enzyme found in liver and kidneys cells. ALT helps create energy for liver cells. Damaged liver cells release ALT into the bloodstream, which can elevate ALT levels in the blood.

Aspartate Aminotransferase (AST) is an enzyme in the liver and muscles that helps metabolizes amino acids. Similarly to ALT, elevated AST levels may be a sign of liver damage or liver disease.

Alkaline phosphate (ALP) is an enzyme present in the blood. ALP contributes to numerous vital bodily functions, such as supplying nutrients to the liver, promoting bone growth, and metabolizing fat in the intestines.

Gamma-glutamyl Transpeptidase (GGTP) is an enzyme that occurs primarily in the liver, but it is also present in the kidneys, pancreas, gallbladder, and spleen. Higher than normal concentrations of GGTP in the blood may indicate alcohol-related liver damage. Elevated GGTP levels can also increase the risk of developing certain types of cancer.

Bilirubin is a waste product that forms when the liver breaks down red blood cells. Bilirubin exits the body as bile in stool. High levels of bilirubin can cause jaundice - a condition in which the skin and whites of the eyes turn yellow- and may indicate liver damage.

Albumin is a protein that the liver produces. The liver releases albumin into the bloodstream, where it helps fight infections and transport vitamins, hormones, and enzymes throughout the body. Liver damage can cause abnormally low albumin levels.

*** End Of Report ***







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	Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 11-Dec-2024 08:05 AM		
	Primary Sample	: Whole Blood	Received On	: 11-Dec-2024 12:41 PM		
	Sample Tested In	: Serum	Reported On	: 11-Dec-2024 02:35 PM		
	Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report		

CLINICAL BIOCHEMISTRY					
SAGEPATH CARE 1.2					
Test Name	Results	Units	Biological Reference Interval		
Kidney Profile-KFT					
	0.69	mg/dL	0.60-1.10		
(Method: Calculated)	27.7	mg/dL	12.8-42.8		
Blood Urea Nitrogen (BUN)	12.94	mg/dL	7.0-18.0		
BUN / Creatinine Ratio	18.75		6 - 22		
	3.0	mg/dL	2.6-6.0		
Sodium (Method: ISE Direct)	143	mmol/L	135-150		
Potassium (Method: ISE Direct)	4.1	mmol/L	3.5-5.0		
Chloride (Method: ISE Direct)	102	mmol/L	94-110		
Linutration					

Interpretation:

• The kidneys, located in the retroperitoneal space in the abdomen, are vital for patient health. They process several hundred liters of fluid a day and remove around two liters of waste products from the bloodstream. The volume of fluid that passes though the kidneys each minute is closely linked to cardiac output. The kidneys maintain the body's balance of water and concentration of minerals such as sodium, potassium, and phosphorus in blood and remove waste by-products from the blood after digestion, muscle activity and exposure to chemicals or medications. They also produce renin which helps regulate blood pressure, produce erythropoietin which stimulates red blood cell production, and produce an active form of vitamin D, needed for bone health.







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CLINICAL BIOCHEMISTRY					
SAGEPATH CARE 1.2					
Test Name	Results	Units	Biological Reference Interval		
Iron Profile-I					
(Mathod: Ferrozine)	70	µg/dL	50-170		
Total Iron Binding Capacity (TIBC)	423	µg/dL	250-450		
Transferrin (Method: Calculated)	295.8	mg/dL	250-380		
Iron Saturation((% Transferrin Saturation) (Method: Calculated)	16.55	%	15-50		
Unsaturated Iron Binding Capacity (UIBC) (Method: FerroZine)	353	ug/dL	110-370		

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

CLINICAL BIOCHEMISTRY						
	SAGEPATH CARE 1.2					
Test Name	Results	Units	Biological Reference Interval			
Thyroid Profile-I(TFT)	Thyroid Profile-I(TFT)					
	132.05	ng/dL	70-204			
	11.3	µg/dL	3.2-12.6			
TSH - Thyroid Stimulating Hormone	1.69	µIU/mL	0.35-5.5			

Pregnancy & Cord Blood

T3 (Triiodothyroni	ne):	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 r	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.

*** End Of Report ***







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