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

REPORT

Name	: Mr. A RAGHU KUMAR	Sample ID	: A0012896
Age/Gender	: 65 Years/Male	Reg. No	: 0312401180002
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 18-Jan-2024 08:19 AM
Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 12:40 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 18-Jan-2024 01:49 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

HAEMATOLOGY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
COMPLETE BLOOD COUNT (CBC)				
Haemoglobin (Hb)	13.4	g/dL	13-17	Cynmeth Method
RBC Count	4.61	10^12/L	4.5-5.5	Cell Impedence
Haematocrit (HCT)	41.9	%	40-50	Calculated
MCV	91	fl	81-101	Calculated
MCH	29.1	pg	27-32	Calculated
MCHC	**32.0**	g/dL	32.5-34.5	Calculated
RDW-CV	13.7	%	11.6-14.0	Calculated
Platelet Count (PLT)	267	10^9/L	150-410	Cell Impedance
Total WBC Count	8.9	10^9/L	4.0-10.0	Impedance
Neutrophils	66	%	40-70	Cell Impedence
Absolute Neutrophils Count	5.87	10^9/L	2.0-7.0	Impedence
Lymphocytes	27	%	20-40	Cell Impedence
Absolute Lymphocyte Count	2.4	10^9/L	1.0-3.0	Impedence
Monocytes	04	%	2-10	Microscopy
Absolute Monocyte Count	0.36	10^9/L	0.2-1.0	Calculated
Eosinophils	03	%	1-6	Microscopy
Absolute Eosinophils Count	0.27	10^9/L	0.02-0.5	Calculated
Basophils	0	%	1-2	Microscopy
Absolute Basophil lCount	0.00	10^9/L	0.0-0.3	Calculated
Atypical cells / Blasts	0	%		
Morphology				
WBC	Within normal limits.			
RBC	Normocytic normochromic blood picture			
Platelets	Adequate			Microscopy

Result rechecked and verified for abnormal cases

*** End Of Report ***

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Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 12:40 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 18-Jan-2024 01:56 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

HAEMATOLOGY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Erythrocyte Sedimentation Rate (ESR)	10		14 or less	Westergren method

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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ICMR Reg .No. SAPALAPVLHT (Covid -19)

REPORT

Name	: Mr. A RAGHU KUMAR	Sample ID	: A0012895, A0012900
Age/Gender	: 65 Years/Male	Reg. No	: 0312401180002
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 18-Jan-2024 08:19 AM
Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 03:10 PM
Sample Tested In	: Plasma-NaF(F), Plasma-NaF(PP)	Reported On	: 18-Jan-2024 04:16 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

GLUCOSE POST PRANDIAL (PP)

Test Name	Results	Units	Ref. Range	Method
Glucose Fasting (F)	**118**	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	> = 6.5	>=200(with symptoms)

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

Glucose Post Prandial (PP)	**238**	mg/dL	70-140	Hexokinase (HK)

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	> = 6.5	>=200(with symptoms)

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

- Postprandial glucose level is a screening test for Diabetes Mellitus
- If glucose level is >140 mg/dL and <200 mg/dL, then GTT (glucose tolerance test) is advised.
- If level after 2 hours = >200 mg/dL diabetes mellitus is confirmed.
- Advise HbA1c for further evaluation.

Result rechecked and verified for abnormal cases

*** End Of Report ***

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REPORT

Name	: Mr. A RAGHU KUMAR	Sample ID	: A0012896, A0012898
Age/Gender	: 65 Years/Male	Reg. No	: 0312401180002
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 18-Jan-2024 08:19 AM
Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 12:40 PM
Sample Tested In	: Whole Blood EDTA, Serum	Reported On	: 18-Jan-2024 02:50 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Glycated Hemoglobin (HbA1c)	**7.6**	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
Mean Plasma Glucose	171.42	mg/dL		Calculated

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

Calcium	8.6	mg/dL	8.5-10.1	o-cresolphthalein complexone (OCPC)

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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Lipid Profile				
Cholesterol Total	195	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	**265**	mg/dL	< 150	GPO-POD
Cholesterol-HDL	40	mg/dL	40-60	Direct
Cholesterol-LDL	**102**	mg/dL	< 100	Calculated
Cholesterol- VLDL	**53**	mg/dL	7-35	Calculated
Non HDL Cholesterol	**155**	mg/dL	< 130	Calculated
Cholesterol Total /HDL Ratio	**4.88**	%	0-4.0	Calculated
HDL / LDL Ratio	0.39			
LDL/HDL Ratio	2.55	%	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

Result rechecked and verified for abnormal cases

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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Kidney Profile-KFT				
Creatinine -Serum	0.81	mg/dL	0.70-1.30	Sarcosine oxidase
Urea-Serum	23.3	mg/dL	17.1-49.2	Glutamate dehydrogenase+Calculation
Blood Urea Nitrogen (BUN)	10.89	mg/dL	8.0-23.0	Calculated
BUN / Creatinine Ratio	13.44		6 - 22	
Uric Acid	5.1	mg/dL	3.5-7.2	Uricase
Sodium	145	mmol/L	136-145	ISE Direct
Potassium	3.6	mmol/L	3.5-5.1	ISE Direct
Chloride	102	mmol/L	98-108	ISE Direct

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	Ref. Range	Method
Liver Function Test (LFT)				
Bilirubin(Total)	0.6	mg/dL	0.2-1.2	Diazo
Bilirubin (Direct)	0.2	mg/dL	0.0 - 0.5	Diazo
Bilirubin (Indirect)	0.4	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	18	U/L	5-48	IFCC with out (P-5-P)
Alanine Aminotransferase (ALT/SGPT)	20	U/L	0-55	IFCC with out (P-5-P)
Alkaline Phosphatase(ALP)	85	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	42	U/L	15-85	IFCC
Protein - Total	7.5	g/dL	6.4-8.2	Biuret
Albumin	3.6	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	3.9	g/dL	2.0-4.2	Calculated
A:G Ratio	0.92	%	0.8-2.0	Calculated
SGOT/SGPT Ratio	0.90			

- **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.

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Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 12:40 PM
Sample Tested In	: Serum	Reported On	: 18-Jan-2024 01:24 PM
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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Thyroid Profile-I(TFT)				
T3 (Triiodothyronine)	118.89	ng/dL	40-181	CLIA
T4 (Thyroxine)	6.9	µg/dL	3.2-12.6	CLIA
TSH -Thyroid Stimulating Hormone	1.50	µIU/mL	0.35-5.5	CLIA

Pregnancy & Cord Blood

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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Primary Sample	: Whole Blood	Received On	: 18-Jan-2024 12:40 PM
Sample Tested In	: Serum	Reported On	: 18-Jan-2024 02:50 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Iron Profile-I				
Iron(Fe)	**46**	µg/dL	65-175	Ferene
Total Iron Binding Capacity (TIBC)	**462**	µg/dL	250-450	Ferene
Transferrin	323.08	mg/dL	215-365	Calculated
Iron Saturation((% Transferrin Saturation)	**9.96**	%	20-50	Calculated
Unsaturated Iron Binding Capacity (UIBC)	**416**	µg/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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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 18-Jan-2024 08:19 AM
Primary Sample	:	Received On	: 18-Jan-2024 03:10 PM
Sample Tested In	: Urine	Reported On	: 18-Jan-2024 03:26 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL PATHOLOGY

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	Strip Reflectance
Protein	Absent		Negative	Strip Reflectance
Bilirubin (Bile)	Negative		Negative	Strip Reflectance
Urobilinogen	Negative		Negative	Ehrlichs reagent
Ketone Bodies	Negative		Negative	Strip Reflectance
Specific Gravity	1.020		1.000 - 1.030	Strip Reflectance
Blood	Negative		Negative	Strip Reflectance
Reaction (pH)	6.5		5.0 - 8.5	Reagent Strip Reflectance
Nitrites	Negative		Negative	Strip Reflectance
Leukocyte esterase	Negative		Negative	Reagent Strip Reflectance
Microscopic Examination (Microscopy)				
PUS(WBC) Cells	03-04	/hpf	00-05	Microscopy
R.B.C.	Nil	/hpf	Nil	Microscopic
Epithelial Cells	01-02	/hpf	00-05	Microscopic
Casts	Absent		Absent	Microscopic
Crystals	Absent		Absent	Microscopic
Bacteria	Nil		Nil	
Budding Yeast Cells	Nil		Absent	Microscopy

Comments : Urine analysis is one of the most useful laboratory tests as it identifies a wide range of medical conditions including renal damage, urinary tract infections,diabetes, hypertension and drug toxicity.

Correlate Clinically.

Result rechecked and verified for abnormal cases
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*** End Of Report ***

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