

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. MD ARIF Sample ID : A0013293

Age/Gender : 42 Years/Male Reg. No : 0312402130007

Referred by : Dr. L S RAJINIKANTH SPP Code : SPL-CV-172

Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM

Primary Sample : Whole Blood Received On : 13-Feb-2024 10:12 AM

Sample Tested In : Whole Blood EDTA Reported On : 13-Feb-2024 01:15 PM

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

HAEMATOLOGY HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Ref. Range	Method
COMPLETE BLOOD COUNT (CBC)				
Haemoglobin (Hb)	16.3	g/dL	13-17	Cynmeth Method
RBC Count	5.66	10^12/L	4.5-5.5	Cell Impedence
Haematocrit (HCT)	47.4	%	40-50	Calculated
MCV	84	fl	81-101	Calculated
MCH	28.8	pg	27-32	Calculated
MCHC	34.3	g/dL	32.5-34.5	Calculated
RDW-CV	13.1	%	11.6-14.0	Calculated
Platelet Count (PLT)	234	10^9/L	150-410	Cell Impedance
Total WBC Count	6.4	10^9/L	4.0-10.0	Impedance
Neutrophils	61	%	40-70	Cell Impedence
Absolute Neutrophils Count	3.9	10^9/L	2.0-7.0	Impedence
Lymphocytes	33	%	20-40	Cell Impedence
Absolute Lymphocyte Count	2.11	10^9/L	1.0-3.0	Impedence
Monocytes	03	%	2-10	Microscopy
Absolute Monocyte Count	0.19	10^9/L	0.2-1.0	Calculated
Eosinophils	03	%	1-6	Microscopy
Absolute Eosinophils Count	0.19	10^9/L	0.02-0.5	Calculated
Basophils	0	%	1-2	Microscopy
Absolute Basophil ICount	0.00	10^9/L	0.0-0.3	Calculated
Atypical cells / Blasts	0	%		
<u>Morphology</u>				
WBC	Within norn	nal limits.		
RBC	Normocytic	normochromic	blood picture	

Result rechecked and verified for abnormal cases

*** End Of Report ***

Adequate

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Platelets





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Microscopy



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Age/Gender : 42 Years/Male Reg. No : 0312402130007 Referred by : Dr. L S RAJINIKANTH SPP Code : SPL-CV-172

Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM
Primary Sample : Whole Blood Received On : 13-Feb-2024 12:38 PM

Primary Sample : Whole Blood EDTA Received On : 13-Feb-2024 12:38 PM Reported On : 13-Feb-2024 02:39 PM

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

HAEMATOLOGY

HEALTH PROFILE A-3 PACKAGE

Test Name Results Units Ref. Range Method

Erythrocyte Sedimentation Rate (ESR) 9 10 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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REPORT

Name : Mr. MD ARIF Sample ID : A0013418

Age/Gender : 42 Years/Male Reg. No : 0312402130007

Referred by : Dr. L S RAJINIKANTH SPP Code : SPL-CV-172

Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM
Primary Sample : Whole Blood Received On : 13-Feb-2024 12:38 PM

Sample Tested In : Plasma-NaF(F) Reported On : 13-Feb-2024 01:39 PM

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

CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name Results Units Ref. Range Method

Glucose Fasting (F) 112 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		>=200(with symptoms)

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

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*** End Of Report ***













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REPORT

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Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM
Primary Sample : Whole Blood Received On : 13-Feb-2024 12:38 PM
Sample Tested In : Whole Blood EDTA Reported On : 13-Feb-2024 03:05 PM

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

CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Ref. Range	Method
Glycated Hemoglobin (HbA1c)	6.1	%	Non Diabetic: < 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
Mean Plasma Glucose	128.37	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

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REPORT

 Name
 : Mr. MD ARIF
 Sample ID
 : A0013292

 Age/Gender
 : 42 Years/Male
 Reg. No
 : 0312402130007

Referred by : Dr. L S RAJINIKANTH SPP Code : SPL-CV-172

Referring Customer : V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM

Primary Sample : Whole Blood Received On : 13-Feb-2024 12:38 PM Sample Tested In : Serum Reported On : 13-Feb-2024 03:30 PM

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

CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

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Test Name	Results	Units	Ref. Range	Method	
25 - Hydroxy Vitamin D	31.02	ng/mL	<20.0-Deficiency 20.0-<30.0-Insufficiency 30.0-100.0-Sufficiency	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) 541 pg/mL 211-911 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)

*** End Of Report ***

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DR.VAISHNAVI MD BIOCHEMISTRY Sample Tested In



: Serum

Sagepath Labs Pvt. Ltd.

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: 13-Feb-2024 03:21 PM

REPORT

Name : Mr. MD ARIF Sample ID : A0013292 Age/Gender : 42 Years/Male Reg. No : 0312402130007 Referred by SPP Code : Dr. L S RAJINIKANTH : SPL-CV-172 Referring Customer: V CARE MEDICAL DIAGNOSTICS Collected On : 13-Feb-2024 10:12 AM Primary Sample : Whole Blood Received On : 13-Feb-2024 12:38 PM

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CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Ref. Range	Method
Lipid Profile				
Cholesterol Total	174	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	224	mg/dL	< 150	GPO-POD
Cholesterol-HDL	41	mg/dL	40-60	Direct
Cholesterol-LDL	88.2	mg/dL	< 100	Calculated
Cholesterol- VLDL	44.8	mg/dL	7-35	Calculated
Non HDL Cholesterol	133	mg/dL	< 130	Calculated
Cholesterol Total /HDL Ratio	4.24	%	0-4.0	Calculated
HDL / LDL Ratio	0.46			
LDL/HDL Ratio	2.15	%	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)	Trialveerides	HDL Cholesterol (mg/dL)	LDL 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

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 PROFILE A-3 PACKAGE					
Test Name	Results	Units	Ref. Range	Method	
Kidney Profile-KFT					
Creatinine -Serum	0.91	mg/dL	0.70-1.30	Sarcosine oxidase	
Urea-Serum	19.4	mg/dL	12.8-42.8	Glutamate dehydrogenase+Calculation	
Blood Urea Nitrogen (BUN)	9.07	mg/dL	7.0-18.0	Calculated	
BUN / Creatinine Ratio	9.97		6 - 22		
Uric Acid	3.8	mg/dL	3.5-7.2	Uricase	
Sodium	138	mmol/L	136-145	ISE Direct	
Potassium	3.9	mmol/L	3.5-5.1	ISE Direct	
Chloride	100	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.

*** End Of Report ***











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CLINICAL BIOCHEMISTRY HEALTH PROFILE A-3 PACKAGE

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Test Name	Results	Units	Ref. Range	Method
Liver Function Test (LFT)				
Bilirubin(Total)	0.7	mg/dL	0.3-1.2	Diazo
Bilirubin (Direct)	0.2	mg/dL	0.0 - 0.5	Diazo
Bilirubin (Indirect)	0.5	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	31	U/L	5-40	IFCC with out (P-5-P)
Alanine Aminotransferase (ALT/SGPT)	28	U/L	0-55	IFCC with out (P-5-P)
Alkaline Phosphatase(ALP)	53	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	48	U/L	15-85	IFCC
Protein - Total	7.0	g/dL	6.4-8.2	Biuret
Albumin	4.0	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	3	g/dL	2.0-4.2	Calculated
A:G Ratio	1.33	%	0.8-2.0	Calculated
SGOT/SGPT Ratio	1.11			

- 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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DR.VAISHNAVI MD BIOCHEMISTRY



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Primary Sample : Whole Blood : 13-Feb-2024 12:38 PM Received On

Sample Tested In : Serum Reported On : 13-Feb-2024 01:31 PM

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

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CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE Unite

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Thyroid Profile-I(TFT)					
T3 (Triiodothyronine)	95.66	ng/dL	70-204	CLIA	
T4 (Thyroxine)	5.6	μg/dL	3.2-12.6	CLIA	
TSH -Thyroid Stimulating Hormone	5.64	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 Trimes	ster :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.

Result rechecked and verified for abnormal cases

*** End Of Report ***









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CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE Results Units Ref. Range Method

Iron Profile-I

Test Name

Iron Profile-i				
Iron(Fe)	104	μg/dL	65-175	Ferene
Total Iron Binding Capacity (TIBC)	420	μg/dL	250-450	Ferene
Transferrin	293.71	mg/dL	215-365	Calculated
Iron Saturation((% Transferrin Saturation)	24.76	%	20-50	Calculated
Unsaturated Iron Binding Capacity (UIBC)	316	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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Referred by SPP Code : Dr. L S RAJINIKANTH : SPL-CV-172

: V CARE MEDICAL DIAGNOSTICS Referring Customer Collected On : 13-Feb-2024 10:12 AM Primary Sample Received On : 13-Feb-2024 12:38 PM

Sample Tested In : Urine Reported On : 13-Feb-2024 02:27 PM

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

CLINICAL PATHOLOGY

HEALTH PROFILE A-3 PACKAGE

Test Name Results Units Ref. Range Method

Complete Urine Analysis (CUE)

Physical Examination

Colour Colour less Straw to light amber

Appearance Clear 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 Negative Negative Strip Reflectance Specific Gravity 1.020 1.000 - 1.030 Strip Reflectance Blood Negative Negative Strip Reflectance

5.5 5.0 - 8.5Reaction (pH) Reagent Strip Reflectance

Nitrites Negative Negative Strip Reflectance

Negative Negative Reagent Strip Reflectance Leukocyte esterase

Microscopic Examination (Microscopy)

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

Bacteria Nil Nil

Nil Absent **Budding Yeast Cells** Microscopy

Correlate Clinically.

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*** End Of Report ***







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