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Excellence In Health Care

Sagepath Labs Pvt. Ltd.

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. P VAMSHI	Sample ID	: A0286805
Age/Gender	: 24 Years/Male	Reg. No	: 0312405170023
Referred by	: Dr. B R KUMAR	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 17-May-2024 01:09 PM
Primary Sample	: Whole Blood	Received On	: 17-May-2024 05:33 PM
Sample Tested In	: Serum	Reported On	: 17-May-2024 06:30 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

CLINICAL BIOCHEMISTRY

Test Name	Results	Units	Ref. Range	Method
C-Reactive protein-(CRP)	**51.32**	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

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REPORT

Name	: Mr. P VAMSHI	Sample ID	: A0286808
Age/Gender	: 24 Years/Male	Reg. No	: 0312405170023
Referred by	: Dr. B R KUMAR	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 17-May-2024 01:09 PM
Primary Sample	: Whole Blood	Received On	: 17-May-2024 05:33 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 17-May-2024 06:54 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)	14.4	g/dL	13-17	Cynmeth Method
RBC Count	5.04	10^12/L	4.5-5.5	Cell Impedence
Haematocrit (HCT)	42.1	%	40-50	Calculated
MCV	84	fl	81-101	Calculated
MCH	28.5	pg	27-32	Calculated
MCHC	34.2	g/dL	32.5-34.5	Calculated
RDW-CV	13.1	%	11.6-14.0	Calculated
Platelet Count (PLT)	225	10^9/L	150-410	Cell Impedance
Total WBC Count	9.6	10^9/L	4.0-10.0	Impedance
Neutrophils	70	%	40-70	Cell Impedence
Absolute Neutrophils Count	6.72	10^9/L	2.0-7.0	Impedence
Lymphocytes	22	%	20-40	Cell Impedence
Absolute Lymphocyte Count	2.11	10^9/L	1.0-3.0	Impedence
Monocytes	06	%	2-10	Microscopy
Absolute Monocyte Count	0.58	10^9/L	0.2-1.0	Calculated
Eosinophils	02	%	1-6	Microscopy
Absolute Eosinophils Count	0.19	10^9/L	0.02-0.5	Calculated
Basophils	00	%	1-2	Microscopy
Absolute Basophil lCount	0.00	10^9/L	0.0-0.3	Calculated
Morphology				
WBC	Within Normal Limits			
RBC	Normocytic normochromic blood picture.			
Platelets	Adequate.			Microscopy

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DR.SWARNA BALA
MD PATHOLOGY

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REPORT

Name	: Mr. P VAMSHI	Sample ID	: A0286806, A0286808, A02868
Age/Gender	: 24 Years/Male	Reg. No	: 0312405170023
Referred by	: Dr. B R KUMAR	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 17-May-2024 01:09 PM
Primary Sample	: Whole Blood	Received On	: 17-May-2024 05:33 PM
Sample Tested In	: Plasma-NaF(F), Whole Blood EDT	Reported On	: 17-May-2024 06:43 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
Glucose Fasting (F)	93	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

Glycated Hemoglobin (HbA1c)	5.4	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
Mean Plasma Glucose	108.28	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	8.7	mg/dL	8.5-10.1	o-cresolphthalein complexone (OCPC)

Comments:

- 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.

Result rechecked and verified for abnormal cases

*** End Of Report ***

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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Lipid Profile				
Cholesterol Total	131	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	**250**	mg/dL	< 150	GPO-POD
Cholesterol-HDL	46	mg/dL	40-60	Direct
Cholesterol-LDL	35	mg/dL	< 100	Calculated
Cholesterol- VLDL	**50**	mg/dL	7-35	Calculated
Non HDL Cholesterol	85	mg/dL	< 130	Calculated
Cholesterol Total /HDL Ratio	2.85	%	0-4.0	Calculated
HDL / LDL Ratio	1.31			
LDL/HDL Ratio	0.76	%	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

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Kidney Profile-KFT				
Creatinine -Serum	0.71	mg/dL	0.70-1.30	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	10.07		6 - 22	
Uric Acid	4.5	mg/dL	3.5-7.2	Uricase
Sodium	142	mmol/L	136-145	ISE Direct
Potassium	3.8	mmol/L	3.5-5.1	ISE Direct
Chloride	102	mmol/L	98-108	ISE Direct
Liver Function Test (LFT)				
Bilirubin(Total)	0.5	mg/dL	0.3-1.2	Diazo
Bilirubin (Direct)	0.1	mg/dL	0.0 - 0.5	Diazo
Bilirubin (Indirect)	0.4	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	33	U/L	5-40	IFCC with out (P-5-P)
Alanine Aminotransferase (ALT/SGPT)	32	U/L	0-55	IFCC with out (P-5-P)
Alkaline Phosphatase(ALP)	84	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	21	U/L	15-85	IFCC
Protein - Total	6.9	g/dL	6.4-8.2	Biuret
Albumin	4.1	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	2.8	g/dL	2.0-4.2	Calculated
A:G Ratio	1.46	%	0.8-2.0	Calculated
SGOT/SGPT Ratio	1.03			

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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Thyroid Profile-I(TFT)				
T3 (Triiodothyronine)	90.01	ng/dL	70-204	CLIA
T4 (Thyroxine)	7.8	µg/dL	3.2-12.6	CLIA
TSH -Thyroid Stimulating Hormone	**6.69**	µlU/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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CLINICAL BIOCHEMISTRY

SAGEPATH CARE 1.2

Test Name	Results	Units	Ref. Range	Method
Iron Profile-I				
Iron(Fe)	**32**	µg/dL	65-175	Ferene
Total Iron Binding Capacity (TIBC)	**498**	µg/dL	250-450	Ferene
Transferrin	348.25	mg/dL	215-365	Calculated
Iron Saturation((% Transferrin Saturation)	**6.43**	%	20-50	Calculated
Unsaturated Iron Binding Capacity (UIBC)	**466**	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.

Correlate Clinically.

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*** End Of Report ***

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