

LABORATORY TEST REPORT

Name	: Miss. RITHIKA		
Sample ID	: A1309982		
Age/Gender	: 18 Years/Female	Reg. No	: 0312502050012
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 05-Feb-2025 10:17 AM
Primary Sample	: Whole Blood	Received On	: 05-Feb-2025 12:24 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 05-Feb-2025 01:56 PM
Client Address	: Kimtee colony , Gokul Nagar, Tarnaka	Report Status	: Final Report


HAEMATOLOGY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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COMPLETE BLOOD COUNT (CBC)

Haemoglobin (Hb) (Method: Cynmeth Method)	13.3	g/dL	12-15
RBC Count (Method: Cell Impedance)	4.78	10 ¹² /L	3.8-4.8
Haematocrit (HCT) (Method: Calculated)	40.8	%	40-50
MCV (Method: Calculated)	85	fl	81-101
MCH (Method: Calculated)	27.9	pg	27-32
MCHC (Method: Calculated)	32.7	g/dL	32.5-34.5
RDW-CV (Method: Calculated)	13.2	%	11.6-14.0
Platelet Count (PLT) (Method: Cell Impedance)	204	10 ⁹ /L	150-410
Total WBC Count (Method: Impedance)	6.7	10 ⁹ /L	4.0-10.0
Neutrophils (Method: Cell Impedance)	62	%	40-70
Absolute Neutrophils Count (Method: Impedance)	4.15	10 ⁹ /L	2.0-7.0
Lymphocytes (Method: Cell Impedance)	31	%	20-40
Absolute Lymphocyte Count (Method: Impedance)	2.08	10 ⁹ /L	1.0-6.2
Monocytes (Method: Microscopy)	05	%	2-10
Absolute Monocyte Count (Method: Calculated)	0.34	10 ⁹ /L	0.2-1.0
Eosinophils (Method: Microscopy)	02	%	1-6
Absolute Eosinophils Count (Method: Calculated)	0.13	10 ⁹ /L	0.02-0.5
Basophils (Method: Microscopy)	00	%	1-2
Absolute Basophil ICount (Method: Calculated)	0.00	10 ⁹ /L	0.0-0.3
Atypical cells	0.00		

Morphology

WBC	Within Normal Limits
RBC	Normocytic normochromic
Platelets	Adequate.

*** End Of Report ***


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 Swarnabala - M
 DR.SWARNA BALA
 MD PATHOLOGY

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 05-Feb-2025 10:17 AM
Primary Sample	: Whole Blood	Received On	: 05-Feb-2025 12:24 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 05-Feb-2025 02:18 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report



HAEMATOLOGY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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 Erythrocyte Sedimentation Rate (ESR) <small>(Method: Westergren method)</small>	5	mm/hr	10 or less
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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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Swarnabala - M
DR.SWARNA BALA
MD PATHOLOGY

LABORATORY TEST REPORT

Name	: Miss. RITHIKA		
Sample ID	: A1309983		
Age/Gender	: 18 Years/Female	Reg. No	: 0312502050012
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 05-Feb-2025 10:17 AM
Primary Sample	: Whole Blood	Received On	: 05-Feb-2025 12:46 PM
Sample Tested In	: Plasma-NaF(F)	Reported On	: 05-Feb-2025 01:38 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report



CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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Glucose Fasting (F) 92 mg/dL 70-100
(Method: Hexokinase)

Interpretation of Plasma Glucose based on ADA guidelines 2018

Diagnosis	Fasting Plasma Glucose(mg/dL)	2hrs Plasma 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

*** End Of Report ***




DR. LAVANYA LAGISETTY
MD BIOCHEMISTRY

LABORATORY TEST REPORT

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Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 05-Feb-2025 10:17 AM
Primary Sample	: Whole Blood	Received On	: 05-Feb-2025 12:46 PM
Sample Tested In	: Whole Blood EDTA, Serum	Reported On	: 05-Feb-2025 04:50 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report


CLINICAL BIOCHEMISTRY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
Glycated Hemoglobin (HbA1c) <small>(Method: HPLC)</small>	5.3	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5
Mean Plasma Glucose <small>(Method: Calculated)</small>	105.41	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.

Average Blood Glucose(eAG) (mg/dL)	Level of Control	Hemoglobin A1c (%)
421		14%
386		13%
350		12%
314		11%
279		10%
243		9%
208		8%
172	POOR	7%
136	GOOD	6%
101	EXCELLENT	5%

HbA1c values of 5.0- 6.5 percent indicate good control or an increased risk for developing diabetes mellitus. HbA1c values greater than 6.5 percent are diagnostic of diabetes mellitus. Diagnosis should be confirmed by repeating the HbA1c test.

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.



Handwritten Signature
 DR. LAVANYA LAGSETTY
 MD BIOCHEMISTRY

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CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
25 - Hydroxy Vitamin D <small>(Method: CLIA)</small>	24.63	ng/mL	<20.0-Deficiency 20.0-30.0-Insufficiency 30.0-100.0-Sufficiency >100.0-Potential Intoxication

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-hydroxycholecalciferol 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) <small>(Method: CLIA)</small>	425	pg/mL	160-1300
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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

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

An increased vitamin B12 level is uncommon in:

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

*** End Of Report ***



[Signature]
DR. LAVANYA LAGISETTY
MD BIOCHEMISTRY







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CLINICAL BIOCHEMISTRY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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Lipid Profile

 Cholesterol Total (Method: CHOD-POD)	166	mg/dL	< 170
 Triglycerides-TGL (Method: GPO-POD)	100	mg/dL	< 150
 Cholesterol-HDL (Method: Direct)	46	mg/dL	40-60
 Cholesterol-LDL (Method: Calculated)	100	mg/dL	< 110
 Cholesterol- VLDL (Method: Calculated)	20	mg/dL	7-35
 Non HDL Cholesterol (Method: Calculated)	120	mg/dL	< 130
 Cholesterol Total /HDL Ratio (Method: Calculated)	3.61	Ratio	0-4.0
 LDL/HDL Ratio (Method: Calculated)	2.17	Ratio	0-3.5

The National Cholesterol Education program's third Adult Treatment Panel (ATPIII) has issued its recommendations on evaluating and treating lipid disorders 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

*** End Of Report ***




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CLINICAL BIOCHEMISTRY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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Liver Function Test (LFT)

 Bilirubin(Total) (Method: Diazo)	0.7	mg/dL	0.3-1.2
 Bilirubin (Direct) (Method: Diazo)	0.1	mg/dL	0.0 - 0.3
 Bilirubin (Indirect) (Method: Calculated)	0.6	mg/dL	0.2-1.0
 Aspartate Aminotransferase (AST/SGOT) (Method: IFCC UV Assay)	23	U/L	15-37
 Alanine Aminotransferase (ALT/SGPT) (Method: IFCC with out (P-S-P))	20	U/L	0-55
 Alkaline Phosphatase(ALP) (Method: Kinetic PNPP-AMP)	53	U/L	30-120
 Gamma Glutamyl Transpeptidase (GGTP) (Method: IFCC)	13	U/L	5-55
 Protein - Total (Method: Biuret)	7.7	g/dL	6.4-8.2
 Albumin (Method: Bromocresol Green (BCG))	4.6	g/dL	3.4-5.0
 Globulin (Method: Calculated)	3.1	g/dL	2.0-4.2
 A:G Ratio (Method: Calculated)	1.48	Ratio	0.8-2.0
 SGOT/SGPT Ratio (Method: Calculated)	1.15	Ratio	<1.0

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 ***




 DR. LAVANYA LAGISETTY
 MD BIOCHEMISTRY

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Sample Tested In	: Serum	Reported On	: 05-Feb-2025 04:27 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report



CLINICAL BIOCHEMISTRY

HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
Kidney Profile-KFT			
 Creatinine (Method: Jaffes Kinetic)	0.51	mg/dL	0.60-1.10
 Urea-Serum (Method: Calculated)	36.4	mg/dL	12.8-42.8
 Blood Urea Nitrogen (BUN) (Method: Calculated)	17.01	mg/dL	7.0-18.0
BUN / Creatinine Ratio	33.35	Ratio	6 - 22
 Uric Acid (Method: Uricase)	5.4	mg/dL	2.6-6.0
 Sodium (Method: ISE Direct)	140	mmol/L	135-150
 Potassium (Method: ISE Direct)	4.2	mmol/L	3.5-5.0
 Chloride (Method: ISE Direct)	103	mmol/L	94-110

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 through 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.









DR. LAVANYA LAGISSETTY
MD BIOCHEMISTRY

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CLINICAL BIOCHEMISTRY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
Iron Profile-I			
 Iron(Fe) (Method: Ferrozine)	81	µg/dL	50-170
 Total Iron Binding Capacity (TIBC) (Method: Ferrozine)	339	µg/dL	250-450
 Transferrin (Method: Calculated)	237.06	mg/dL	250-380
 Iron Saturation((% Transferrin Saturation) (Method: Calculated)	23.89	%	15-50
 Unsaturated Iron Binding Capacity (UIBC) (Method: FerroZine)	258	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.

*** End Of Report ***




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Primary Sample	: Whole Blood	Received On	: 05-Feb-2025 12:46 PM
Sample Tested In	: Serum	Reported On	: 05-Feb-2025 03:08 PM
Client Address	: Kimtee colony , Gokul Nagar, Tarnaka	Report Status	: Final Report


CLINICAL BIOCHEMISTRY
HEALTH PROFILE A-3 PACKAGE

Test Name	Results	Units	Biological Reference Interval
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Thyroid Profile-I(TFT)

 T3 (Triiodothyronine) <small>(Method: CLIA)</small>	102.85	ng/dL	80-210
 T4 (Thyroxine) <small>(Method: CLIA)</small>	7.1	µg/dL	3.2-12.6
 TSH -Thyroid Stimulating Hormone <small>(Method: CLIA)</small>	1.41	µIU/mL	0.35-5.5

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.

*** End Of Report ***




 DR. LAVANYA LAGISSETTY
 MD BIOCHEMISTRY

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