

**REPORT**

Name	: Mr. GAGANDEEP SINGH	Sample ID	: 24753416
Age/Gender	: 35 Years/Male	Reg. No	: 0312311030009
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 03-Nov-2023 08:13 AM
Primary Sample	: Whole Blood	Received On	: 03-Nov-2023 12:43 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 03-Nov-2023 01:46 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
<b>COMPLETE BLOOD COUNT (CBC)</b>				
Haemoglobin (Hb)	16.1	g/dL	13-17	Cynmeth Method
RBC Count	5.20	10 <sup>12</sup> /L	4.5-5.5	Cell Impedance
Haematocrit (HCT)	46.3	%	40-50	Calculated
MCV	89	fl	81-101	Calculated
MCH	30.9	pg	27-32	Calculated
MCHC	34.0	g/dL	32.5-34.5	Calculated
RDW-CV	13.0	%	11.6-14.0	Calculated
Platelet Count (PLT)	239	10 <sup>9</sup> /L	150-410	Cell Impedance
Total WBC Count	5.1	10 <sup>9</sup> /L	4.0-10.0	Impedance
Neutrophils	52	%	40-70	Cell Impedance
Absolute Neutrophils Count	2.65	10 <sup>9</sup> /L	2.0-7.0	Impedance
Lymphocytes	40	%	20-40	Cell Impedance
Absolute Lymphocyte Count	2.04	10 <sup>9</sup> /L	1.0-3.0	Impedance
Monocytes	06	%	2-10	Microscopy
Absolute Monocyte Count	0.31	10 <sup>9</sup> /L	0.2-1.0	Calculated
Eosinophils	02	%	1-6	Microscopy
Absolute Eosinophils Count	0.1	10 <sup>9</sup> /L	0.02-0.5	Calculated
Basophils	00	%	1-2	Microscopy
Absolute Basophil ICount	0.00	10 <sup>9</sup> /L	0.0-0.3	Calculated
<b>Morphology</b>				
WBC	Within Normal Limits			
RBC	Normocytic normochromic blood picture.			
Platelets	Adequate.			Microscopy

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Swarnabala . M  
DR.SWARNABALA  
MD PATHOLOGY

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**HAEMATOLOGY**

**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>Erythrocyte Sedimentation Rate (ESR)</b>	5		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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Swarnabala . M  
DR.SWARNA BALA  
MD PATHOLOGY



**REPORT**

Name	: Mr. GAGANDEEP SINGH	Sample ID	: 24753416, 24753409
Age/Gender	: 35 Years/Male	Reg. No	: 0312311030009
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 03-Nov-2023 08:13 AM
Primary Sample	: Whole Blood	Received On	: 03-Nov-2023 12:43 PM
Sample Tested In	: Whole Blood EDTA, Serum	Reported On	: 03-Nov-2023 03:26 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Ref. Range	Method
<b>Glycated Hemoglobin (HbA1c)</b>	5.0	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
<b>Mean Plasma Glucose</b>	96.8	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

<b>Magnesium</b>	2.01	mg/dL	1.8-2.4	Methylthymol blue (MTB)
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**Interpretation:**

About one half of the body's magnesium is found in bone. The other half is found inside cells of body tissues and organs.

Magnesium is needed for many chemical processes in the body. It helps maintain normal muscle and nerve function, and keeps the bones strong. Magnesium is also needed for the heart to function normally and to help regulate blood pressure. Magnesium also helps the body control blood sugar level and helps support the body's defense (immune) system.

**A high magnesium level may be due to:**

- Diabetic ketoacidosis, a life-threatening problem in people with diabetes
- Loss of kidney function (acute or chronic renal failure)

**A low magnesium level may be due to:**

- Alcohol use disorder
- Hyperaldosteronism (adrenal gland produces too much of the hormone aldosterone)
- Hypercalcemia (high blood calcium level)
- Long-term (chronic) diarrhea

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**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>25 - Hydroxy Vitamin D</b>	<b>20.78</b>	ng/mL	<20.0-Deficiency 20.0-<30.0-Insufficiency 30.0-100.0-Sufficiency >100.0-Potential Intoxication	CLIA

**Interpretation:**

- 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.
- 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.
- 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.
- 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:**

- people who don't get much exposure to the sun
- older adults
- people with obesity.
- dietary deficiency

**Increased Levels:**

- Vitamin D Intoxication

Method : CLIA

<b>Vitamin- B12 (cyanocobalamin)</b>	<b>387</b>	pg/mL	211-911	CLIA
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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)

Result rechecked and verified for abnormal cases

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**CLINICAL BIOCHEMISTRY**

**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>Lipid Profile</b>				
Cholesterol Total	211	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	155	mg/dL	< 150	GPO-POD
Cholesterol-HDL	40	mg/dL	40-60	Direct
Cholesterol-LDL	140	mg/dL	< 100	Calculated
Cholesterol- VLDL	31	mg/dL	7-35	Calculated
Non HDL Cholesterol	171	mg/dL	< 130	Calculated
Cholesterol : HDL Ratio	5.28	%	0-4.0	Calculated
LDL:HDL Ratio	3.5	%	0-3.5	Calculated

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

Result rechecked and verified for abnormal cases

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**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>Kidney Profile-KFT</b>				
Urea	26.8	mg/dL	12.8-42.8	Glutamate dehydrogenase+Calculation
Creatinine -Serum	0.78	mg/dL	0.70-1.30	Sarcosine oxidase
Uric Acid	4.9	mg/dL	3.5-7.2	Uricase
Sodium	139	mmol/L	136-145	ISE Direct
Potassium	4.8	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 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.

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**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>Liver Function Test (LFT)</b>				
Bilirubin(Total)	0.8	mg/dL	0.3-1.2	Diazo
Bilirubin (Direct)	0.2	mg/dL	0.0 - 0.5	Diazo
Bilirubin (Indirect)	0.6	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	22	U/L	5-40	IFCC with out (P-5-P)
Alanine Aminotransferase (ALT/SGPT)	16	U/L	0-55	IFCC with out (P-5-P)
Alkaline Phosphatase(ALP)	47	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	22	U/L	15-85	IFCC
Protein - Total	7.8	g/dL	6.4-8.2	Biuret
Albumin	4.0	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	3.8	g/dL	2.0-4.2	Calculated
A:G Ratio	1.05	%	0.8-2.0	Calculated

- **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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**CLINICAL BIOCHEMISTRY**

**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
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**Thyroid Profile-I(TFT)**

<b>T3 (Triiodothyronine)</b>	121.65	ng/dL	70-204	CLIA
<b>T4 (Thyroxine)</b>	7.2	µg/dL	3.2-12.6	CLIA
<b>TSH -Thyroid Stimulating Hormone</b>	1.89	µIU/mL	0.35-5.5	CLIA

**Pregnancy & Cord Blood**

<b>T3 (Triiodothyronine):</b>	<b>T4 (Thyroxine)</b>	<b>TSH (Thyroid Stimulating Hormone)</b>
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**

**HEALTH PROFILE A-3 PACKAGE**

Test Name	Results	Units	Ref. Range	Method
<b>Iron Profile-I</b>				
Iron(Fe)	103	µg/dL	65-175	Ferene
Total Iron Binding Capacity (TIBC)	322	µg/dL	250-450	Ferene
Transferrin	225.17	mg/dL	215-365	Calculated
Iron Saturation((% Transferrin Saturation)	31.99	%	20-50	Calculated
Unsaturated Iron Binding Capacity (UIBC)	219	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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**REPORT**

Name	: Mr. GAGANDEEP SINGH	Sample ID	: 24753411
Age/Gender	: 35 Years/Male	Reg. No	: 0312311030009
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 03-Nov-2023 08:13 AM
Primary Sample	:	Received On	: 03-Nov-2023 12:34 PM
Sample Tested In	: Urine	Reported On	: 03-Nov-2023 01:15 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
<b>Complete Urine Analysis (CUE)</b>				
<b>Physical Examination</b>				
Colour	Pale Yellow		Straw to light amber	
Appearance	Clear		Clear	
<b>Chemical Examination</b>				
Glucose	Negative		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	1.025		1.000 - 1.030	Strip Reflectance
Blood	Negative		Negative	Strip Reflectance
Reaction (pH)	6.5		5.0 - 8.5	Reagent strip Reflectance - Double indicator Principle
Nitrites	Negative		Negative	Strip Reflectance
Leukocyte esterase	Negative		Negative	Reagent Strip Reflectance
<b>Microscopic Examination (Microscopy)</b>				
PUS(WBC) Cells	02-04	/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
Others	-			Microscopic

**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.

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