

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207, 24754209
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum, Whole Blood EDTA	Reported On	: 16-Dec-2023 09:42 AM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Copper</b>	99	µg/dL	80-155	Spectrophotometry
<b>Zinc - Serum</b>	83	µg/dL	80-120	Bromo-Paps
<b>Vitamin Profile</b>				
25 - Hydroxy Vitamin D	<b>28.8</b>	ng/mL	<20.0-Deficiency 20.0-<30.0-Insufficiency 30.0-100.0-Sufficiency >100.0-Potential Intoxication	CLIA
Vitamin B12 (Cyanocobalamin)	451	pg/mL	197 - 771	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**

- 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)

**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



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207, 24754209
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum, Whole Blood EDTA	Reported On	: 16-Dec-2023 09:42 AM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Cardiac Risk Markers(5)</b>				
Apolipoprotein (APO-B)	98.6	mg/dL	60.0-140.0	Immunoturbidimetry
Apolipoprotein B/A1 Ratio	1		0.35 - 1.00	Calculation
Apolipoprotein(APO A1)	125.6	mg/dL	105.0-175.0	Immunoturbidimetry
Homocysteine-Serum	12.5	μmol/L	3.7 - 13.9	CLIA
High Sensitivity C-Reactive Protein(hsCRP)	0.8	mg/L	Low Risk :< 1.0 Average Risk:1.0-3.0 High Risk: > 3.0	Immunoturbidimetry
Lipoprotein (a) - Lp(a)	24.6	mg/dL	< 30.0	Immunoturbidimetry
<b>Toxic Elements</b>				
Arsenic	0.83	ug/L	<5	ICP-MS
Cadmium	1.19	μg/l	< 1.5	ICP-MS
Mercury	2.58	μg/l	< 5	ICP-MS
Lead	135	μg/l	< 150	ICP-MS
Chromium	18.92	μg/L	< 30	ICPMS
Barium	13.65	μg/l	<30	ICP-MS
Cobalt, Blood	0.33	μg/l	0.10 - 1.50	ICP-MS
Caesium	3.72	μg/l	<5.0	ICP-MS
Thallium	0.59	μg/l	<1.0	ICP-MS
Uranium	0.33	μg/l	<1.0	ICP-MS
Strontium	26.30	μg/l	8 - 38	ICP-MS
Antimony	13.50	μg/l	0.10 - 18	ICP-MS
Tin	1.03	μg/l	< 2	ICP-MS
Molybdenum	0.99	μg/l	0.70 - 4.0	ICP-MS
Silver	2.39	μg/l	<4.0	ICP-MS
Vanadium	0.18	μg/l	< 0.8	ICP-MS
Beryllium	0.13	μg/l	0.10 - 0.80	ICP-MS
Bismuth	0.18	μg/l	0.10 - 0.80	ICP-MS
Selenium	43.6	μg/l	60 - 340	ICP-MS
Nickel	11.28	μg/l	< 15	ICP-MS
Aluminium	23.69	μg/l	< 30	ICP-MS
Manganese	17.62	μg/l	7.10 - 20	ICP-MS



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

Result rechecked and verified for abnormal cases

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754209
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 15-Dec-2023 05:33 PM
Client Address	: Kimtee colony ,Gokul Nagar, Tarnaka	Report Status	: Final Report

**HAEMATOLOGY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Complete Blood Picture(CBP)</b>				
Haemoglobin (Hb)	12.1	g/dL	12-15	Cynmeth Method
Haematocrit (HCT)	<b>38.1</b>	%	40-50	Calculated
RBC Count	4.60	10 <sup>12</sup> /L	4.5-5.5	Cell Impedance
MCV	83	fl	81-101	Calculated
MCH	<b>26.3</b>	pg	27-32	Calculated
MCHC	<b>31.7</b>	g/dL	32.5-34.5	Calculated
RDW-CV	<b>14.6</b>	%	11.6-14.0	Calculated
Platelet Count (PLT)	308	10 <sup>9</sup> /L	150-410	Cell Impedance
Total WBC Count	6.3	10 <sup>9</sup> /L	4.0-10.0	Impedance
<b>Differential Leucocyte Count (DC)</b>				
Neutrophils	65	%	40-70	Cell Impedance
Lymphocytes	30	%	20-40	Cell Impedance
Monocytes	03	%	2-10	Microscopy
Eosinophils	02	%	1-6	Microscopy
Basophils	00	%	1-2	Microscopy
Absolute Neutrophils Count	4.1	10 <sup>9</sup> /L	2.0-7.0	Impedance
Absolute Lymphocyte Count	1.89	10 <sup>9</sup> /L	1.0-3.0	Impedance
Absolute Monocyte Count	<b>0.19</b>	10 <sup>9</sup> /L	0.2-1.0	Calculated
Absolute Eosinophils Count	0.13	10 <sup>9</sup> /L	0.02-0.5	Calculated
Absolute Basophil ICount	0.00	10 <sup>9</sup> /L	0.0-0.3	Calculated
Morphology	Normocytic normochromic blood picture			PAPs Staining
<b>Blood Picture - Peripheral Smear Examination</b>				
Red Blood Cells	Normocytic normochromic			Microscopy
White Blood Cells	Within normal limits			Microscopy
Platelets	Adequate			Microscopy
Hemoparasites	Not seen.			Microscopy
Impression	Normocytic normochromic blood picture.			
Advice	Correlate clinically			

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



\*TESTS CONDUCTED @ CENTRAL LAB, HYDERABAD

terms and conditions overleaf. Partial Reproduction of this report is not Permitted

Swarnabala .M  
DR.SWARNABALA  
MD PATHOLOGY

Result rechecked and verified for abnormal cases

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754209
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Whole Blood EDTA	Reported On	: 15-Dec-2023 05:33 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**HAEMATOLOGY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
-----------	---------	-------	------------	--------

<b>Erythrocyte Sedimentation Rate (ESR)</b>	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.



\*TESTS CONDUCTED @ CENTRAL LAB, HYDERABAD

terms and conditions overleaf. Partial Reproduction of this report is not Permitted

Swarnabala .M  
DR.SWARNA BALA  
MD PATHOLOGY

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754210
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Plasma-NaF(F)	Reported On	: 15-Dec-2023 03:16 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
-----------	---------	-------	------------	--------

<b>Glucose Fasting (F)</b>	80	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

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited

Excellence In Health Care



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754209, 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Whole Blood EDTA, Serum	Reported On	: 15-Dec-2023 04:32 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Glycated Hemoglobin (HbA1c)</b>	6.0	%	Non Diabetic:< 5.7 Pre diabetic: 5.7-6.4 Diabetic:>= 6.5	HPLC
<b>Mean Plasma Glucose</b>	125.5	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

**Testosterone Total** 10.00 ng/dL Refer Table CLIA

**Interpretation:**

**(Testosterone Reference Ranges)**

Age	Reference Range Male(ng/dL)	Reference Range Female(ng/dL)
Newborn(1-15days)	75-400	20-64
1-5 Months	1-177	1-5
6-11 Months	2-7	2-5
<b>Children:</b>		
1-5 Year	2-25	2-10
6-9 Year	3-30	2-20
<b>Puberty Tanner Stage</b>		
1	2-23	2-10
2	5-70	5-30
3	15-280	10-30
4	105-545	15-40
5	265-800	10-40
Adult	241-827	14-76

- Testosterone is a steroid hormone (androgen) made by the testes in males. Its production is stimulated and controlled by luteinising hormone (LH), which is manufactured in the pituitary gland. In males, testosterone stimulates development of secondary sex characteristics, including enlargement of the penis, growth of body hair and muscle, and a deepening voice. It is present in large amounts in males during puberty and in adult males to regulate the sex drive and maintain muscle mass. Testosterone is also produced by the adrenal glands in both males and females and, in small amounts, by the ovaries in females. The body can convert testosterone to oestradiol, the main sex hormone in females. There is great variability in testosterone levels between men and it is normal for testosterone levels to decline as men get older. Hypogonadism in a male refers to a reduction in sperm and/or testosterone production.

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**



**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 03:29 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Lipid Profile</b>				
Cholesterol Total	156	mg/dL	< 200	CHOD-POD
Triglycerides-TGL	85	mg/dL	< 150	GPO-POD
Cholesterol-HDL	42	mg/dL	40-60	Direct
Cholesterol-LDL	97	mg/dL	< 100	Calculated
Cholesterol- VLDL	17	mg/dL	7-35	Calculated
Non HDL Cholesterol	114	mg/dL	< 130	Calculated
Cholesterol Total /HDL Ratio	3.71	%	0-4.0	Calculated
HDL / LDL Ratio	0.43			
LDL/HDL Ratio	2.31	%	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

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 03:29 PM
Client Address	: Kimtee colony ,Gokul Nagar, Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Liver Function Test (LFT)</b>				
Bilirubin(Total)	0.6	mg/dL	0.2-1.2	Diazo
Bilirubin (Direct)	0.2	mg/dL	0.0 - 0.2	Diazo
Bilirubin (Indirect)	0.4	mg/dL	0.2-1.0	Calculated
Aspartate Aminotransferase (AST/SGOT)	16	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)	52	U/L	40-150	Kinetic PNPP-AMP
Gamma Glutamyl Transpeptidase (GGTP)	45	U/L	5-55	IFCC
Protein - Total	6.9	g/dL	6.4-8.2	Biuret
Albumin	3.6	g/dL	3.4-5.0	Bromocresol purple (BCP)
Globulin	3.3	g/dL	2.0-4.2	Calculated
A:G Ratio	1.09	%	0.8-2.0	Calculated
SGOT/SGPT Ratio	0.80			

- **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 \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 03:16 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
-----------	---------	-------	------------	--------

**Thyroid Profile-I(TFT)**

<b>T3 (Triiodothyronine)</b>	95.26	ng/dL	40-181	CLIA
<b>T4 (Thyroxine)</b>	5.4	µg/dL	3.2-12.6	CLIA
<b>TSH -Thyroid Stimulating Hormone</b>	0.48	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.

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 03:29 PM
Client Address	: Kimtee colony ,Gokul Nagar ,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Iron Profile-I</b>				
Iron(Fe)	57	µg/dL	50-170	Ferene
Total Iron Binding Capacity (TIBC)	369	µg/dL	250-450	Ferene
Transferrin	258.04	mg/dL	250-380	Calculated
Iron Saturation((% Transferrin Saturation)	15.45	%	15-50	Calculated
Unsaturated Iron Binding Capacity (UIBC)	312	ug/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.

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754207
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 03:29 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

**AROGYAM 1.3 PROFILE**

Test Name	Results	Units	Ref. Range	Method
<b>Renal Profile (5)</b>				
Calcium	8.9	mg/dL	8.5-10.1	o-cresolphthalein complexone (OCPC)
Uric Acid	3.6	mg/dL	2.6-6.0	Uricase
Blood Urea Nitrogen (BUN)	9	mg/dL	8.0-23.0	Calculated
Creatinine -Serum	0.69	mg/dL	0.60-1.20	Sarcosine oxidase
BUN / Creatinine Ratio	13.00		6 - 22	
Urea-Serum	18.3	mg/dL	17.1-49.2	Glutamate dehydrogenase+Calculation



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754072
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150006
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	:	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Urine	Reported On	: 15-Dec-2023 06:08 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**CLINICAL PATHOLOGY**

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	1.030		1.000 - 1.030	Strip Reflectance
Blood	Negative		Negative	Strip Reflectance
Reaction (pH)	6.0		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.

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



\*TESTS CONDUCTED @ CENTRAL LAB, HYDERABAD

terms and conditions overleaf. Partial Reproduction of this report is not Permitted

Swarnabala .M  
DR.SWARNABALA  
MD PATHOLOGY

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754212
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150007
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 04:30 PM
Client Address	: Kimtee colony ,Gokul Nagar, Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Ref. Range	Method
<b>C-Reactive protein-(CRP)</b>	1.29	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

**Bicarbonate (HCO<sub>3</sub>)-Serum**

21.3

mEq/L

22.0 - 29.0

Enzymatic Endpoint

**Interpretation:**

Bicarbonate is the second largest fraction of anions in the plasma. At the physiological pH of blood, the concentration of carbonate is 1/1000 that of bicarbonate. This test is a significant indicator of electrolyte dispersion and anion deficit. An abnormal bicarbonate means a metabolic rather than a respiratory problem.

**Increased Levels**

- Acute Metabolic alkalosis
- Chronic Metabolic alkalosis



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**

**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754212
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150007
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 15-Dec-2023 04:11 PM
Client Address	: Kimtee colony ,Gokul Nagar ,Tarnaka	Report Status	: Final Report

**CLINICAL BIOCHEMISTRY**

Test Name	Results	Units	Ref. Range	Method
<b>Electrolyte Profile-Serum</b>				
Sodium	140	mmol/L	136-145	ISE Direct
Potassium	5.5	mmol/L	3.5-5.1	ISE Direct
Chloride	98	mmol/L	98-108	ISE Direct

**Clinical significance:**

- Prevents dehydration.
- Maintain the acid-base balance (body pH).
- Maintain the osmotic pressure.
- Body working normally.
- It regulates heart rhythm.
- Regulate muscle contractions.
- Help the brain function.
- Cells can generate energy.

**Note:**Separate serum or plasma from cells within 45 minutes of collection; avoid hemolysis.

Result rechecked and verified for abnormal cases

\*\*\* End Of Report \*\*\*

Laboratory is NABL Accredited



*Dr. Vaishnavi*  
**DR. VAISHNAVI**  
**MD BIOCHEMISTRY**



**REPORT**

Name	: Mrs. K SHARADHA	Sample ID	: 24754212
Age/Gender	: 65 Years/Female	Reg. No	: 0312312150007
Referred by	: Dr. SELF	SPP Code	: SPL-CV-172
Referring Customer	: V CARE MEDICAL DIAGNOSTICS	Collected On	: 15-Dec-2023 09:02 AM
Primary Sample	: Whole Blood	Received On	: 15-Dec-2023 02:09 PM
Sample Tested In	: Serum	Reported On	: 16-Dec-2023 01:04 PM
Client Address	: Kimtee colony ,Gokul Nagar,Tarnaka	Report Status	: Final Report

**IMMUNOLOGY & SEROLOGY**

Test Name	Results	Units	Ref. Range	Method
<b>Anti Nuclear Antibody -Titres</b>				
Flourescence	Negative			
Intensity	Nil			
Titres	1:40			
Pattern	Not Seen			
suggestive antibody	Nil			
Commonly associated clinical entities	Nil			
Advice	Nil			

**Interpretation:**

- ANA is useful in the diagnosis of patients with autoimmune diseases such as SLE, Mixed connective tissue disease, Rheumatoid arthritis, Sjogren's syndrome, Progressive systemic sclerosis and CREST syndrome. The incidence of low titre ANA positivity increases with age in normal individuals. many drugs like Hydralazine and Procainamide may induce ANA production.
- The titer is defined as the sample dilution factor for which specific flourescence is just identifiable.
- This test is used for Quantitative detection of antinuclear antibodies (ANA) by IFA in human serum.

Correlate Clinically.

Laboratory is NABL Accredited

\*\*\* End Of Report \*\*\*



**DR. RUTURAJ MANIKLAL KOLHAPURE**  
MD, MICROBIOLOGIST

terms and conditions overleaf. Partial Reproduction of this report is not Permitted