

## DIAGNOSTICS REPORT

Patient Name	: Mrs. SUNITA RAMACHANDRAN	Order Date	: 13/07/2024 08:57
Age/Sex	: 50 Year(s)/Female	Report Date	: 13/07/2024 13:19
UHID	: SHHM.99852		
Ref. Doctor	: self	Facility	: SEVENHILLS HOSPITAL,
Address	: J P RD MANISH SHOPPING CENTER MANISH NAGAR, ANDHERI WEST,Mumbai, Maharashtra, 400053	Mobile	: 9833127246

### 2D ECHOCARDIOGRAPHY WITH COLOUR DOPPLER STUDY

Normal LV and RV systolic function.

Estimated LVEF = 60%

No LV regional wall motion abnormality at rest .

All valves are structurally normal.

Normal sized cardiac chambers.

No LV Diastolic dysfunction .

No pulmonary arterial hypertension.

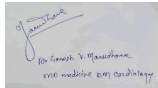
]Normal forward flow velocities across all the cardiac valves.

Aorta and pulmonary artery dimensions: normal.

IAS / IVS: Intact.

No evidence of clot, vegetation, calcification, pericardial effusion.

COLOUR DOPPLER:MILD MR/NO AR.



**Dr.Ganesh Vilas Manudhane**  
**M.ch,MCH/DM**

RegNo: 2011/06/1763

## LABORATORY INVESTIGATION REPORT

<b>Patient Name</b>	: Mrs. SUNITA RAMACHANDRAN	<b>Age/Sex</b>	: 50 Year(s) / Female
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<b>Ref. Doctor</b>	: self	<b>DOB</b>	: 23/01/1974
		<b>Facility</b>	: SEVENHILLS HOSPITAL, MUMBAI

### Blood Bank

Test Name	Result
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Sample No :	00344427A	Collection Date :	13/07/24 09:05	Ack Date :	13/07/2024 10:49	Report Date :	13/07/24 13:37
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#### BLOOD GROUPING/ CROSS-MATCHING BY SEMI AUTOMATION#

BLOOD GROUP (ABO)	' B '
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Rh Type	POSITIVE
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Method - Column Agglutination

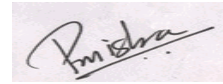
REMARK: THE REPORTED RESULTS PERTAIN TO THE SAMPLE RECEIVED AT THE BLOOD CENTRE.

#### Interpretation:

Blood typing is used to determine an individual's blood group, to establish whether a person is blood group A, B, AB, or O and whether he or she is Rh positive or Rh negative. Blood typing has the following significance,

- Ensure compatibility between the blood type of a person who requires a transfusion of blood or blood components and the ABO and Rh type of the unit of blood that will be transfused.
- Determine compatibility between a pregnant woman and her developing baby (fetus). Rh typing is especially important during pregnancy because a mother and her fetus could be incompatible.
- Determine the blood group of potential blood donors at a collection facility.
- Determine the blood group of potential donors and recipients of organs, tissues, or bone marrow, as part of a workup for a transplant procedure.

End of Report



**Dr. Pooja Vinod Mishra**  
**MD Pathology**

Jr Consultant Pathologist, MMC Reg No.  
2017052191

RegNo: 2017/05/2191



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### Hematology

Test Name	Result	Unit	Biological Reference Interval
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Sample No : O0344427A	Collection Date : 13/07/24 09:05	Ack Date : 13/07/2024 09:23	Report Date : 13/07/24 13:28
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Test Name	Result	Unit	Biological Reference Interval
Total WBC Count	6.37	x10 <sup>3</sup> /ul	4 - 10
Neutrophils	48.8	%	40 - 80
Lymphocytes	<b>41.10 ▲ (H)</b>	%	20 - 40
Eosinophils	4.60	%	1 - 6
Monocytes	4.90	%	2 - 10
Basophils	<b>0.60 ▼ (L)</b>	%	1 - 2
Absolute Neutrophil Count	3.11	x10 <sup>3</sup> /ul	2 - 7
Absolute Lymphocyte Count	2.62	x10 <sup>3</sup> /ul	0.8 - 4
Absolute Eosinophil Count	0.29	x10 <sup>3</sup> /ul	0.02 - 0.5
Absolute Monocyte Count	0.31	x10 <sup>3</sup> /ul	0.12 - 1.2
Absolute Basophil Count	0.04	x10 <sup>3</sup> /ul	0 - 0.1
RBCs	<b>4.09 ▼ (L)</b>	x10 <sup>6</sup> /ul	4.5 - 5.5
Hemoglobin	<b>11.60 ▼ (L)</b>	gm/dl	12 - 15
Hematocrit	<b>34.50 ▼ (L)</b>	%	40 - 50
MCV	84.30	fl	83 - 101
MCH	28.30	pg	27 - 32
MCHC	33.60	gm/dl	31.5 - 34.5
RED CELL DISTRIBUTION WIDTH-CV (RDW-CV)	13.30	%	11 - 16

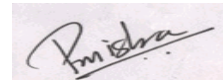
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MUMBAI

RED CELL DISTRIBUTION WIDTH-SD (RDW-SD)	42.60	fl	35 - 56
Platelet	288.00	x10 <sup>3</sup> /ul	150 - 410
Mean Platelet Volume (MPV)	8.90	fl	6.78 - 13.46
PLATELET DISTRIBUTION WIDTH (PDW)	15.50	%	9 - 17
PLATELETCRIT (PCT)	0.26	%	0.11 - 0.28
<b><u>ERYTHROCYTE SEDIMENTATION RATE (ESR)</u></b>			
ESR	60 ▲ (H)	mm/hr	0 - 20
<b><u>Peripheral Blood Smear ( PBF )</u></b>			
REPORT PS Findings: RBCs: Predominantly Normocytic Normochromic WBCs: Reactive lymphocytes Platelets: Adequate			

End of Report



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Complete Haemogram (CBC)- Hb, RBC count and indices, TLC, DLC, Platelet, ESR, Peripheral Smear examination (L 71)- Report has been amended at Jul 13 2024 1:20PM by Chandan Upadhyay.

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### Biochemistry

Test Name	Result	Unit	Biological Reference Interval
Sample No : O0344427C	Collection Date : 13/07/24 09:05	Ack Date : 13/07/2024 09:24	Report Date : 13/07/24 12:17

Gamma Glutamyl Transferase (GGT) - Gglutamyl carboxy nitroanilide - SERUM <i>Method - G glutamyl carboxy nitroanilide</i>	14.15	IU/L	
<b><u>HS CRP (C-REACTIVE PROTEIN ULTRA) - SERUM</u></b>			
CRP-HS - SERUM <i>Method - Latex Particle Immunoturbidimetry</i>	<b>7.84 ▲ (H)</b>	mg/L	0 - 3
Alkaline Phosphatase - SERUM <i>Method - IFCC AMP Buffer</i>	80.04	IU/L	33 - 98

**References:**

- 1) Pack Insert of Bio system
- 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

<b><u>Electrolytes-Serum</u></b>			
Sodium - SERUM <i>Method - Indirect ISE</i>	142	mEq/L	135 - 148
Potassium - SERUM <i>Method - Indirect ISE</i>	4.3	mEq/L	3.5 - 5.5
Chloride - SERUM <i>Method - Indirect ISE</i>	103	mEq/L	96 - 106

**Interpretation:-**

The electrolyte panel is used to identify an electrolyte, fluid, or pH imbalance (acidosis or alkalosis). It is frequently ordered as part of a routine physical. Electrolyte measurements may be used to help investigate conditions that cause electrolyte imbalances such as dehydration, kidney disease, lung diseases, or heart conditions. Repeat testing may then also be used to monitor treatment of the condition causing the imbalance.

High or low electrolyte levels can be affected by some hormones such as aldosterone, a hormone that conserves sodium and promotes the elimination of potassium, and natriuretic peptides, which increase elimination of sodium by the kidneys. With respect to the amount of water in a person's body, people whose kidneys are not functioning properly, may retain excess fluid. This results in a dilution effect on sodium and chloride so that they fall below normal concentrations. On the other hand, people who experience severe fluid loss may show an increase in potassium, sodium, and chloride concentrations. Some conditions such as heart disease and diabetes may also affect the fluid and electrolytes balance in the body and cause abnormal levels of electrolytes. Hemolysed samples may show false high serum potassium.

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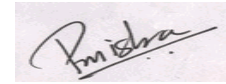
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### Biochemistry

Test Name	Result	Unit	Biological Reference Interval
Sample No : O0344427A	Collection Date : 13/07/24 09:05	Ack Date : 13/07/2024 09:23	Report Date : 13/07/24 12:20

<b><u>GLYCOSYLATED HAEMOGLOBIN (HBA1C)</u></b>			
HbA1c <i>Method - Immunoturbidimetry</i>	<b>6.4 ▲ (H)</b>	%	4 to 6% Non-diabetic 6.0--7.0% Excellent control 7.0--8.0% Fair to good control 8.0--10% Unsatisfactory control ABOVE 10% Poor control
Estimated Average Glucose (eAG) <i>Method - Calculated</i>	<b>136.98 ▲ (H)</b>	mg/dl	90 - 126

**NOTES :-**

1. HbA1c is used for monitoring diabetic control. It reflects the mean plasma glucose over three months
2. HbA1c may be falsely low in diabetics with hemolytic disease. In these individuals a plasma fructosamine level may be used which evaluates diabetes over 15 days.
3. Inappropriately low HbA1c values may be reported due to hemolysis, recent blood transfusion, acute blood loss, hypertriglyceridemia, chronic liver disease. Drugs like dapson, ribavirin, antiretroviral drugs, trimethoprim, may also cause interference with estimation of HbA1c, causing falsely low values.
4. HbA1c may be increased in patients with polycythemia or post-splenectomy.
5. Inappropriately higher values of HbA1c may be caused due to iron deficiency, vitamin B12 deficiency, alcohol intake, uremia, hyperbilirubinemia and large doses of aspirin.
6. Trends in HbA1c are a better indicator of diabetic control than a solitary test.
7. Any sample with >15% HbA1c should be suspected of having a hemoglobin variant, especially in a non-diabetic patient. Similarly, below 4% should prompt additional studies to determine the possible presence of variant hemoglobin.
8. HbA1c target in pregnancy is to attain level <6 % .
9. HbA1c target in paediatric age group is to attain level < 7.5 %.

*Method : turbidimetric inhibition immunoassay (TINIA) for hemolyzed whole blood*

*Reference : American Diabetes Associations. Standards of Medical Care in Diabetes 2015*

Sample No : O0344427B	Collection Date : 13/07/24 09:05	Ack Date : 13/07/2024 09:23	Report Date : 13/07/24 12:18
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### GLUCOSE-PLASMA-FASTING

Glucose,Fasting	<b>103.71 ▲ (H)</b>	mg/dl	70 - 100
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*American Diabetes Association Reference Range :*

*Normal : < 100 mg/dl*

*Impaired fasting glucose(Prediabetes) : 100 - 126 mg/dl*

*Diabetes : >= 126 mg/dl*

*References:*

*1)Pack Insert of Bio system*

*2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018*

*Interpretation :-*

*Conditions that can result in an elevated blood glucose level include: Acromegaly, Acute stress (response to trauma, heart attack,and stroke for instance), Chronic kidney disease, Cushing syndrome, Excessive consumption of food, Hyperthyroidism,Pancreatitis.*

*A low level of glucose may indicate hypoglycemia, a condition characterized by a drop in blood glucose to a level where first it causes nervous system symptoms (sweating, palpitations, hunger, trembling, and anxiety), then begins to affect the brain (causing confusion, hallucinations, blurred vision, and sometimes even coma and death). A low blood glucose level (hypoglycemia) may be*

*seen with:Adrenal insufficiency, Drinking excessive alcohol, Severe liver disease, Hypopituitarism, Hypothyroidism, Severe infections, Severe heart failure, Chronic kidney (renal) failure, Insulin overdose, Tumors that produce insulin (insulinomas),Starvation.*

### Lipid Profile

Total Cholesterol	<b>207.55 ▲ (H)</b>	mg/dl	CHILD Desirable - Less than : 170 CHILD Borderline High : 170-199 CHILD High - More than : 200 ADULT Desirable - Less than : 200 ADULT Borderline High : 200-239 ADULT High - More than : 240
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Triglycerides <i>Method - glycerol Phosphate Oxidase/Peroxide</i>	84.08	mg/dl	NORMAL : <150 Borderline High : 150-199 High : 200-499 Very High : > 500
HDL Cholesterol <i>Method - Enzymatic immuno inhibition</i>	<b>69.87 ▲ (H)</b>	mg/dl	Desirable - Above 60 Borderline Risk : 40-59 Undesirable - Below :40
LDL Cholesterol <i>Method - Calculated</i>	120.86	mg/dl	Desirable - Below : 130 Borderline Risk : 130-159 Undesirable - Above : 160
VLDL Cholesterol <i>Method - Calculated</i>	16.82	mg/dl	5 - 51
Total Cholesterol / HDL Cholesterol Ratio - Calculated <i>Method - Calculated</i>	2.97	RATIO	0 - 4.5
LDL / HDL Cholesterol Ratio - Calculated <i>Method - Calculated</i>	1.73	RATIO	0 - 3.2

**Note:**

- 1) Biological Reference Interval is as per National Cholesterol Education Program (NCEP) Guidelines.
- 2) tests done on Fully Automated Biosystem BA-400 Biochemistry Analyser.

**Interpretation**

1. Triglycerides: When triglycerides are very high greater than 1000 mg/dL, there is a risk of developing pancreatitis in children and adults. Triglycerides change dramatically in response to meals, increasing as much as 5 to 10 times higher than fasting levels just a few hours after eating. Even fasting levels vary considerably day to day. Therefore, modest changes in fasting triglycerides measured on different days are not considered to be abnormal.

2. HDL-Cholesterol: HDL- C is considered to be beneficial, the so-called "good" cholesterol, because it removes excess cholesterol from tissues and carries it to the liver for disposal. If HDL-C is less than 40 mg/dL for men and less than 50 mg/dL for women, there is an increased risk of heart disease that is independent of other risk factors, including the LDL-C level. The NCEP guidelines suggest that an HDL cholesterol value greater than 60 mg/dL is protective and should be treated as a negative



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risk factor.

3. **LDL-Cholesterol:** Desired goals for LDL-C levels change based on individual risk factors. For young adults, less than 120 mg/dL is acceptable. Values between 120-159 mg/dL are considered Borderline high. Values greater than 160 mg/dL are considered high. Low levels of LDL cholesterol may be seen in people with an inherited lipoprotein deficiency and in people with hyperthyroidism, infection, inflammation, or cirrhosis.

### Uric Acid (Serum)

Method - Uricase

Uric Acid Method - Uricase	5.05	mg/dl	2.6 - 6
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References:

- 1) Pack Insert of Bio system
- 2) Tietz Textbook of Clinical chemistry and Molecular Diagnostics Edited by: Carl A. burtis, Edward R. Ashwood, David e. Bruns

Interpretation:-

Uric acid is produced by the breakdown of purines. Purines are nitrogen-containing compounds found in the cells of the body, including our DNA. Increased concentrations of uric acid can cause crystals to form in the joints, which can lead to the joint inflammation and pain characteristic of gout. Low values can be associated with some kinds of liver or kidney diseases, Fanconi syndrome, exposure to toxic compounds, and rarely as the result of an inherited metabolic defect (Wilson disease).

### ALT(SGPT) - SERUM

SGPT (Alanine Transaminase) - SERUM  
Method - IFCC

19.22	IU/L	0 - 34
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References :

- 1) Pack Insert of Bio system
- 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

### AST (SGOT) - SERUM

SGOT (Aspartate Transaminase) - SERUM  
Method - IFCC

16.51	IU/L	0 - 31
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References :

- 1) Pack Insert of Bio system
- 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

Total Bilirubin - SERUM  
Method - Diazo

0.54	mg/dl	0 - 2
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Direct Bilirubin - - SERUM  
Method - Diazotization

0.24	mg/dl	0 - 0.4
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Indirect Bilirubin - Calculated <i>Method - Calculated</i>	<b>0.30 ▲ (H)</b>	mg/dl	
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<b><u>BUN-SERUM</u></b>			
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BUN - SERUM <i>Method - Urease-GLDH</i>	5.27	mg/dl	4 - 18
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**References:**  
 1) Pack Insert of Bio system  
 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

Calcium <i>Method - Arsenazo</i>	9.28	mg/dl	8.6 - 10.3
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**References:**  
 1) Pack Insert of Bio system  
 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

**Interpretation:-**  
 Calcium is the most abundant and one of the most important minerals in the body. It is essential for cell signaling and the proper functioning of muscles, nerves, and the heart. Calcium is needed for blood clotting and is crucial for the formation, density, and maintenance of bones. The causes of hypercalcemia include Hyperparathyroidism and dietary intake. Low blood protein levels, especially a low level of albumin, which can result from liver disease or malnutrition, both of which may result from alcoholism or other illnesses.

<b><u>CREATININE-SERUM</u></b>			
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Creatinine - SERUM <i>Method - Jaffes Kinetic</i>	0.54	mg/dl	0.5 - 1.1
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**References:**  
 1) Pack Insert of Bio system  
 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

**Notes :-**  
 Creatinine is a chemical waste molecule that is generated from muscle metabolism. Creatinine is produced from creatine, a molecule of major importance for energy production in muscles. Approximately 1-2% of the body's creatine is converted to creatinine every day. Creatinine is transported through the bloodstream to the kidneys. The kidneys filter out most of the creatinine and dispose of it in the urine. The kidneys maintain the blood creatinine in a normal range. Creatinine has been found to be a fairly reliable indicator of kidney function.

<b><u>Albumin - SERUM</u></b>			
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Albumin - SERUM  
Method - Bromo Cresol Green(BCG)

3.81

gm/dl

3.5 - 5.2

**References:**

- 1) Pack Insert of Bio system
- 2) Tietz Textbook Of Clinical Chemistry And Molecular Diagnostics, 6th Ed, Editors: Rifai et al. 2018

### **GLUCOSE-PLASMA POST PRANDIAL**

Glucose,Post Prandial

96.25

mg/dl

70 - 140

*American Diabetes Association Reference Range :*

**Post-Prandial Blood Glucose:**

Non- Diabetic: Up to 140mg/dL

Pre-Diabetic: 140-199 mg/dL

Diabetic :>200 mg/dL

**References:**

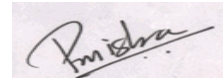
- 1)Pack Insert of Bio system
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**Interpretation :-**

Conditions that can result in an elevated blood glucose level include: Acromegaly, Acute stress (response to trauma, heart attack, and stroke for instance), Chronic kidney disease, Cushing syndrome, Excessive consumption of food, Hyperthyroidism, Pancreatitis.

A low level of glucose may indicate hypoglycemia, a condition characterized by a drop in blood glucose to a level where first it causes nervous system symptoms (sweating, palpitations, hunger, trembling, and anxiety), then begins to affect the brain (causing confusion, hallucinations, blurred vision, and sometimes even coma and death). A low blood glucose level (hypoglycemia) may be seen with: Adrenal insufficiency, Drinking excessive alcohol, Severe liver disease, Hypopituitarism, Hypothyroidism, Severe infections, Severe heart failure, Chronic kidney (renal) failure, Insulin overdose, Tumors that produce insulin (insulinomas), Starvation.

End of Report



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MC-5288

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MC-5288

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Address	: J P RD MANISH SHOPPING CENTER MANISH NAGAR, ANDHERI WEST,Mumbai, Maharashtra, 400053	Mobile	: 9833127246

### MAMMOGRAPHY BILATERAL

Mammogram of both breasts were obtained using a low dose radiation technique. The medio lateral oblique and cranio caudal views of the breasts were done using appropriate compression.

The breasts contain dense fibroglandular tissue and this lowers the sensitivity of mammography.

There is no evidence of any obvious spiculated mass lesion, clusters of micro- calcification or architectural distortion.

No abnormality is detected in the retro mammary fat.

A sono mammogram did not reveal any abnormality.

### IMPRESSION

· **No significant abnormality is detected.**

**A regular follow up mammogram after 1 year is recommended.**



**Dr.Priya Vinod Phayde**  
**MBBS,DMRE**

RegNo: 2020/11/6493

## LABORATORY INVESTIGATION REPORT

<b>Patient Name</b>	: Mrs. SUNITA RAMACHANDRAN	<b>Age/Sex</b>	: 50 Year(s) / Female
<b>UHID</b>	: SHHM.99852	<b>Order Date</b>	: 13/07/2024 08:57
<b>Episode</b>	: OP	<b>Mobile No</b>	: 9833127246
<b>Ref. Doctor</b>	: self	<b>DOB</b>	: 23/01/1974
		<b>Facility</b>	: SEVENHILLS HOSPITAL, MUMBAI

## IMMUNOLOGY

Test Name	Result	Unit	Biological Reference Interval
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Sample No : O0344427C      Collection Date : 13/07/24 09:05      Ack Date : 13/07/2024 09:24      Report Date : 13/07/24 12:21

<b><u>FREE TFT (FT3,FT4,TSH BY CLIA)</u></b>			
Free T3 - SERUM	2.34	pg/ml	2.00 - 4.40
Free T4 - SERUM	1	ng/dl	0.93 - 1.70
TSH - SERUM <i>Method - CLIA</i>	2.76	uIU/ml	0.40 - 4.50

### Reference Ranges (TSH) Pregnancy:

1st Trimester : 0.1 – 2.5

2nd Trimester : 0.2 – 3.0

3rd Trimester : 0.3 – 3.0

### Reference:

1. Clinical Chemistry and Molecular Diagnostics, Tietz Fundamentals, 7th Edition & Endocrinology Guideliens

### Interpretation :-

It is recommended that the following potential sources of variation should be considered while interpreting thyroid hormone results:

1. Thyroid hormones undergo rhythmic variation within the body this is called circadian variation in TSH secretion: Peak levels are seen between 2-4 am. Minimum levels seen between 6-10 am. This variation may be as much as 50% thus, influence of sampling time needs to be considered for clinical interpretation.
2. Circulating forms of T3 and T4 are mostly reversibly bound with Thyroxine binding globulins (TBG), and to a lesser extent with albumin and Thyroid binding PreAlbumin. Thus the conditions in which TBG and protein levels alter such as chronic liver disorders, pregnancy, excess of estrogens, androgens, anabolic steroids and glucocorticoids may cause misleading total T3, total T4 and TSH interpretations.
3. Total T3 and T4 levels are seen to have physiological rise during pregnancy and in patients on steroid treatment.
4. T4 may be normal the presence of hyperthyroidism under the following conditions : T3 thyrotoxicosis, Hypoproteinemia related reduced binding, during intake of certain drugs (eg Phenytoin, Salicylates etc)
5. Neonates and infants have higher levels of T4 due to increased concentration of TBG
6. TSH levels may be normal in central hypothyroidism, recent rapid correction of hypothyroidism or hyperthyroidism, pregnancy, phenytoin therapy etc.
7. TSH values of <0.03 uIU/mL must be clinically correlated to evaluate the presence of a rare TSH variant in certain individuals which is undetectable by conventional methods.
8. Presence of Autoimmune disorders may lead to spurious results of thyroid hormones

## LABORATORY INVESTIGATION REPORT

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9. Various drugs can lead to interference in test results.

10. It is recommended that evaluation of unbound fractions, that is free T3 (fT3) and free T4 (fT4) for clinic-pathologic correlation, as these are the metabolically active forms.

Vitamin D3 - SERUM <i>Method - CLIA</i>	47.98	ng/ml	DEFICIENCY :- < 10 MODERATE INSUFFICIENCY :- 11 - 20 MILD INSUFFICIENCY :- 21 - 25 SUFFICIENCY :- 26 - 70 TOXICITY :- > 70
<b><u>VITAMIN D -TOTAL(25 HYDROXY)</u></b>			

*Interpretation :-*

Vitamin D is a lipid-soluble steroid hormone that is produced in the skin through the action of sunlight or is obtained from dietary sources. The role of vitamin D in maintaining homeostasis of calcium and phosphorus is well established.

The assay measures both D2 (Ergocalciferol) and D3 (Cholecalciferol) metabolites of vitamin D. Vitamin D status is best determined by measurement of 25 hydroxy vitamin D, as it is the major circulating form and has longer half life ( 2-3 weeks) than 1,25 Dihydroxy vitamin D ( 5-8 hrs)

The reference ranges discussed in the preceding are related to total 25-OHD; as long as the combined total is 30 ng/mL or more, the patient has sufficient vitamin D. Levels needed to prevent rickets and osteomalacia (15 ng/mL) are lower than those that dramatically suppress parathyroid hormone levels (20–30 ng/mL). In turn, those levels are lower than levels needed to optimize intestinal calcium absorption (34 ng/mL). Neuromuscular peak performance is associated with levels approximately 38 ng/mL.

Vitamin B12 - SERUM <i>Method - CLIA</i>	<b>1425 ▲ (H)</b>	pg/ml	211.00 - 911.00
<b><u>Vitamin B12 - SERUM</u></b>			

*Interpretation :-*

Vitamin B12 is a coenzyme that is involved in two very important metabolic functions vital to normal cell growth and DNA synthesis: 1) the synthesis of methionine, and 2) the conversion of methylmalonyl CoA to succinyl CoA. Deficiency of this vitamin can lead to megaloblastic anemia and ultimately to severe neurological problems. Also causes macrocytic anemia, glossitis, peripheral



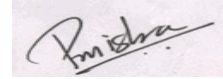
## LABORATORY INVESTIGATION REPORT

<b>Patient Name</b>	: Mrs. SUNITA RAMACHANDRAN	<b>Age/Sex</b>	: 50 Year(s) / Female
<b>UHID</b>	: SHHM.99852	<b>Order Date</b>	: 13/07/2024 08:57
<b>Episode</b>	: OP	<b>Mobile No</b>	: 9833127246
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*neuropathy, weakness, hyperreflexia, ataxia, loss of proprioception, poor coordination, and affective behavioral changes. A significant increase in RBC MCV may be an important indicator of vitamin B12 deficiency.*

*Patients taking vitamin B12 supplementation may have misleading results. A normal serum concentration of B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum B12 concentrations are normal.*

End of Report



**Dr. Pooja Vinod Mishra**  
**MD Pathology**

Jr Consultant Pathologist, MMC Reg No.  
2017052191  
RegNo: 2017/05/2191



## LABORATORY INVESTIGATION REPORT

<b>Patient Name</b> : Mrs. SUNITA RAMACHANDRAN	<b>Age/Sex</b> : 50 Year(s) / Female
<b>UHID</b> : SHHM.99852	<b>Order Date</b> : 13/07/2024 08:57
<b>Episode</b> : OP	<b>Mobile No</b> : 9833127246
<b>Ref. Doctor</b> : self	<b>DOB</b> : 23/01/1974
	<b>Facility</b> : SEVENHILLS HOSPITAL, MUMBAI

### Urinalysis

Test Name	Result	Unit	Biological Reference Interval
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Sample No : O0344427D	Collection Date : 13/07/24 09:05	Ack Date : 13/07/2024 09:24	Report Date : 13/07/24 13:52
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<b><u>Physical Examination</u></b>	Result	Unit	Biological Reference Interval
QUANTITY	40	ml	
Colour	Pale Yellow		
Appearance	Clear		
DEPOSIT	Absent		Absent
pH	Acidic		
Specific Gravity	1.005		
<b>Chemical Examination</b>			
Protein	Absent		Absent
Glucose	Absent		
ketones	Absent		
Blood	NEGATIVE		Negative
Bilirubin	Negative		
Urobilinogen	normal		Normal
NITRATE	Absent		Absent
LEUKOCYTES	Absent		
<b>Microscopic Examination</b>			
Pus cells	1-2	/HPF	
Epithelial Cells	1-2	/HPF	

### LABORATORY INVESTIGATION REPORT

**Patient Name** : Mrs. SUNITA RAMACHANDRAN

**UHID** : SHHM.99852

**Episode** : OP

**Ref. Doctor** : self

**Age/Sex** : 50 Year(s) / Female

**Order Date** : 13/07/2024 08:57

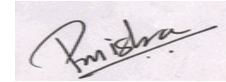
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MUMBAI

RBC	Absent	/HPF	Absent
Cast	Absent	/LPF	
Crystal	ABSENT	/HPF	
Amorphous Materials	Absent		
Yeast	Absent		
Bacteria	Absent		

End of Report



**Dr. Pooja Vinod Mishra**  
**MD Pathology**

Jr Consultant Pathologist, MMC Reg No.  
2017052191

RegNo: 2017/05/2191



## DIAGNOSTICS REPORT

Patient Name	: Mrs. SUNITA RAMACHANDRAN	Order Date	: 13/07/2024 10:19
Age/Sex	: 50 Year(s)/Female	Report Date	: 13/07/2024 17:22
UHID	: SHHM.99852		
Ref. Doctor	: self	Facility	: SEVENHILLS HOSPITAL,
Address	: J P RD MANISH SHOPPING		MUMBAI
	CENTER MANISH NAGAR,	Mobile	: 9833127246
	ANDHERI WEST,Mumbai,		
	Maharashtra, 400053		

### USG ABDOMEN PELVIS

**Liver is normal in size (14.4 cm) and shows bright echotexture.** No focal liver parenchymal lesion is seen.

Intrahepatic portal and biliary radicles are normal.

Gall-bladder is physiologically distended. No evidence of intraluminal calculus is seen. Wall thickness appears normal. No e/o peri-cholecystic fluid noted.

Portal vein and CBD are normal in course and calibre.

Visualised part of pancreas appears normal in size and echotexture. No evidence of duct dilatation or parenchymal calcification seen.

Spleen is normal in size (9.1 cm) and echotexture. No focal lesion is seen in the spleen.

Both the kidneys are normal in size, shape and echotexture. Cortico-medullary differentiation is maintained. No evidence of calculus or hydronephrosis on either side

Right kidney measures 10.7 X 4.1 cm.

Left kidney measures 10.9 X 4.9 cm.

Urinary bladder is well distended and appears normal. No evidence of intra-luminal calculus or mass lesion.

Uterus is normal in size, shape and echotexture. It measures 5.1 X 8.1 X 2.9 cm.

Endometrial thickness measures 4.8 mm.(Post menopausal status)

Both ovaries are normal in size and echotexture.

The right ovary measures: 2.6 X 1.4 cm.

The left ovary measures: 2.8 X 1.6 cm.

Both adnexae are clear.

There is no free fluid in abdomen and pelvis.

## DIAGNOSTICS REPORT

Patient Name	: Mrs. SUNITA RAMACHANDRAN	Order Date	: 13/07/2024 10:19
Age/Sex	: 50 Year(s)/Female	Report Date	: 13/07/2024 17:22
UHID	: SHHM.99852		
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Address	: J P RD MANISH SHOPPING CENTER MANISH NAGAR, ANDHERI WEST,Mumbai, Maharashtra, 400053	Mobile	: 9833127246

### IMPRESSION

·Grade I fatty liver.



**Dr.Priya Vinod Phayde**  
**MBBS,DMRE**

RegNo: 2020/11/6493

## DIAGNOSTICS REPORT

Patient Name	: Mrs. SUNITA RAMACHANDRAN	Order Date	: 13/07/2024 08:57
Age/Sex	: 50 Year(s)/Female	Report Date	: 13/07/2024 14:19
UHID	: SHHM.99852		
Ref. Doctor	: self	Facility	: SEVENHILLS HOSPITAL,
Address	: J P RD MANISH SHOPPING CENTER MANISH NAGAR, ANDHERI WEST,Mumbai, Maharashtra, 400053	Mobile	: 9833127246

### X RAY CHEST PA

Both lungs are clear.

The frontal cardiac dimensions are normal.

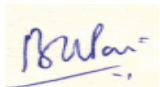
The pleural spaces are clear.

Both hilar shadows are normal in position and density.

No diaphragmatic abnormality is seen.

The soft tissues and bony thorax are normal.

IMPRESSION: No pleuroparenchymal lesion is seen.



**Dr. Bhujang Pai**  
**MBBS, MD**

Consultant

RegNo: 49380

ID : 2407130009

DateTime: 2024-07-13 11:30

Hospital:

Name: mrs sunita ramachand  
Sex: /  
Divisions: /

BP: /  
mmHg

Height: /  
cm

Weight: /  
kg

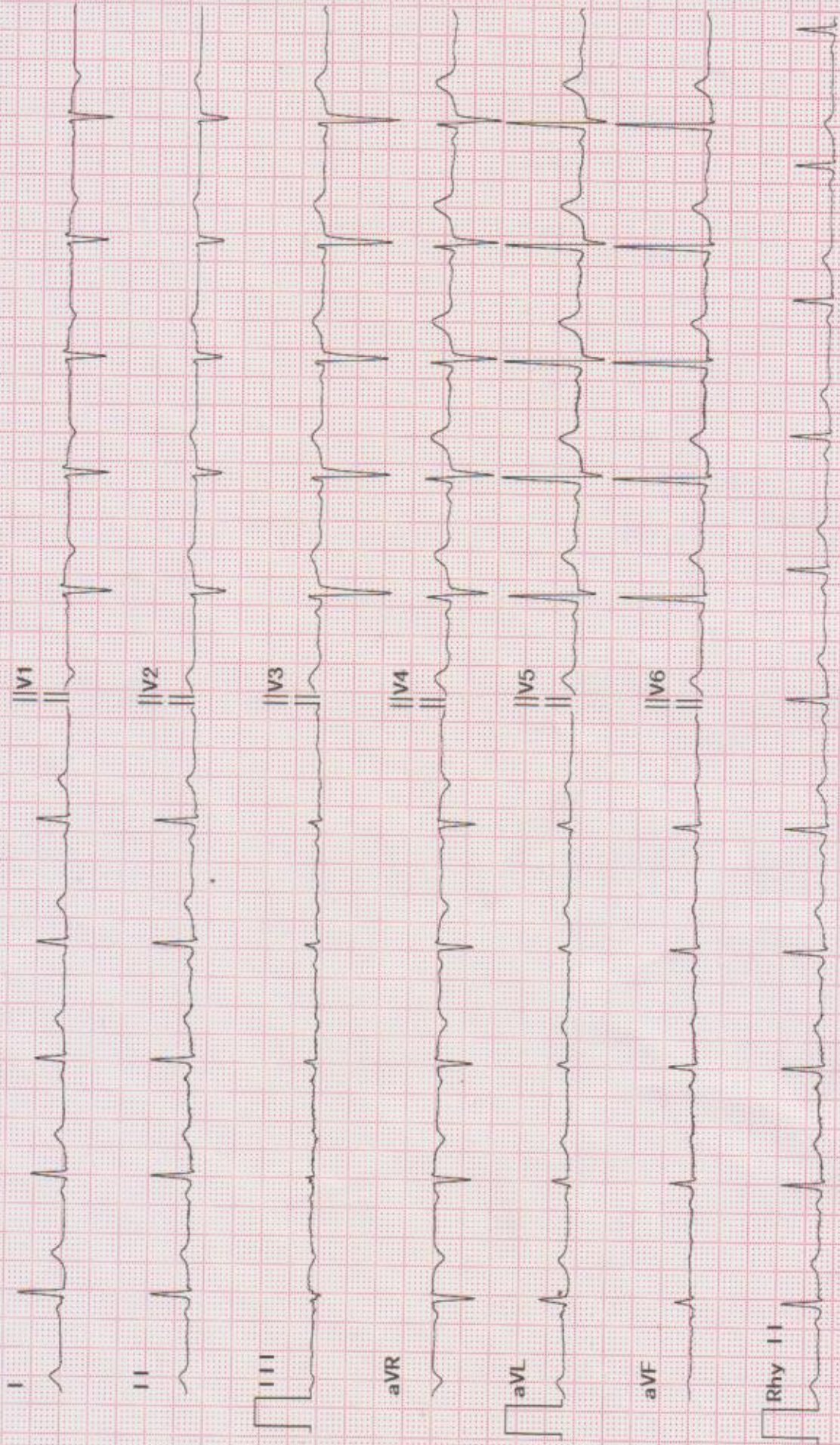
Hospital No.:

HR: 67 bpm  
P Dur/PR int: 105/132ms  
QRS Dur: 94 ms  
QT/QTc int: 411/435 ms  
P/QRS/T axis: 48/33/23 °

RV5/SV1 amp: 1.315/0.803mV  
RV5+SV1 amp: 2.118mV  
RV6/SV2 amp: 1.655/0.568mV

Minnesota Code: 1-2-8 (V2, V3)  
9-4-2 (V4)

Diagnosis Info:  
800 Sinus Rhythm  
701 Poor R Progression (V2, V3)



Diagnosis for reference, ask your doctor to confirm  
AUTO PRINT 6X2+1R 67bpm 10 mm/mV 0.50Hz-45Hz 25 mm/sec 50Hz Confirmed By: