Patient Name	: Mr. VINAY BHUSHAN	Order Date	: 16/03/2024 10:01		
Age/Sex UHID	: 53 Year(s)/Male : SHHM.89586	Report Date	: 16/03/2024 14:11		
Ref. Doctor	:	Facility	<ul> <li>SEVENHILLS HOSPITAL, MUMBAT</li> </ul>		
		Mobile	: 8197230907		
Address	: MANISH PARK, andheri east, M	umbai, Maharastra, 400093			

### **DIAGNOSTICS REPORT**

# 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 and functionally normal.

Normal sized cardiac chambers.

No LV Diastolic dysfunction .

No pulmonary arterial hypertension.

No regurgitation across any other valves.

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: NO MR/AR.



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

RegNo: 2011/06/1763

Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
SHHM.89586	Order Date	: 16/03/2024 10:01
: OP		
Self	Mobile No	: 8197230907
	DOB	: 05/07/1970
	Facility	: SEVENHILLS HOSPITAL, MUMBAI
	: SHHM.89586 : OP	: SHHM.89586 Order Date : OP : Self Mobile No DOB

### **Blood Bank**

Test Name			Result				
Sample No :	O0320457A	Collection Date :	16/03/24 10:22	Ack Date	: 16/03/2024 11:13	Report Date :	16/03/24 11:42
BLOOD GROUPING/ CROSS-MATCHING BY SEMI AUTOMATION							
BLOOD GR	oup (abo)			В'			
Rh Type     POSITIVE							
REMARK: THE	REPORTED RES	SULTS PERTAIN TO	THE SAMPLE I	RECEIVED AT T	THE BLOOD CENTRE.		
Interpretation:	,						
Blood typing is	used to determ	nine an individual's l	blood group, to	establish whe	ther a person is bloo	d group A, B, AB,	
or O and whet	her he or she is	Rh positive or Rh n	egative. Blood	typing has the	e following significand	<i>e,</i>	
• Ensure comp	atibility betwee	n the blood type of	a person who	requires a tran	sfusion of blood or bl	lood components	
and the ABO a	nd Rh type of th	he unit of blood that	t will be transf	used.			
• Determine compatibility between a pregnant woman and her developing baby (fetus). Rh typing is especially							
important durii	ng pregnancy be	ecause a mother an	d her fetus col	ıld be incompa	tible.		
• Determine th	ne blood group d	of potential blood do	onors at a colle	ction facility.			
					les, or bone marrow,	as part of a	

• 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.Ritesh Kharche MD, PGD Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680

Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	<b>:</b> 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

#### HAEMATOLOGY

Fest Name		Result	Ur	nit Bio	ological Reference Interval
Sample No: 00320504	A Collection Date :	16/03/24 13:24	Ack Date : 16/03/2024 13:5	Report Date :	16/03/24 15:18
COMPLETE BLOOD	COUNT (CBC) - EDTA	WHOLE BLOOD			
Total WBC Count		6.79		x10^3/ul	4.00 - 10.00
Neutrophils		69.7		%	40.00 - 80.00
Lymphocytes		20.8		%	20.00 - 40.00
Eosinophils		2.3		%	1.00 - 6.00
Monocytes		7.1		%	2.00 - 10.00
Basophils		0.1 •	(L)	%	1.00 - 2.00
Absolute Neutrophil	Count	4.74		x10^3/ul	2.00 - 7.00
Absolute Lymphocyte	e Count	1.41		x10^3/ul	0.80 - 4.00
Absolute Eosinophil	Count	0.15		x10^3/ul	0.02 - 0.50
Absolute Monocyte C	Count	0.48		x10^3/ul	0.12 - 1.20
Absolute Basophil Co	bunt	0.01		x10^3/ul	0.00 - 0.10
RBCs		4.88		x10^6/ul	4.50 - 5.50
Hemoglobin		13.9		gm/dl	13.00 - 17.00
Hematocrit		41.5		%	40.00 - 50.00
MCV		85.1		fl	83.00 - 101.00
MCH		28.6		pg	27.00 - 32.00



Patient Name : Mr. VINAY BHUSHAN			Age/Sex	: 53 Year(s) / Male	
UHID Episode			Order Date	: 16/03/2024 10:01	
Ref. Doctor	: Self		Mobile No	: 8197230907	
			DOB	: 05/07/1970	
			Facility	: SEVENHILLS H	HOSPITAL, MUMBAI
MCHC		33.6		gm/dl	31.50 - 34.50
RED CELL DIS	TRIBUTION WIDTH-CV (RDW-CV)	13.6		%	11.00 - 16.00
RED CELL DIS	TRIBUTION WIDTH-SD (RDW-SD)	44.4		fl	35.00 - 56.00
Platelet		168		x10^3/ul	150.00 - 410.00
Mean Platelet	Volume (MPV)	12.9		fl	6.78 - 13.46
PLATELET DIS	TRIBUTION WIDTH (PDW)	16.4		%	9.00 - 17.00
PLATELETCRIT	(PCT)	0.217		%	0.11 - 0.28

Method:-

HB Colorimetric Method. RBC/PLT Electrical Impedance Method. WBC data Flow Cytometry by Laser Method. MCV,MCH,MCHC,RDW and rest parameters - Calculated. All Abnormal Haemograms are reviewed confirmed microscopically.

NOTE: Wallach's Interpretation of Diagnostic Tests. 11th Ed, Editors: Rao LV. 2021

NOTE :-

The International Council for Standardization in Haematology (ICSH) recommends reporting of absolute counts of various WBC subsets for clinical decision making. This test has been performed on a fully automated 5 part differential cell counter which counts over 10,000 WBCs to derive differential counts. A complete blood count is a blood panel that gives information about the cells in a patient's blood, such as the cell count for each cell type and the concentrations of Hemoglobin and platelets. The cells that circulate in the bloodstream are generally divided into three types: white blood cells (leukocytes), red blood cells (erythrocytes), and platelets (thrombocytes). Abnormally high or low counts may be physiological or may indicate disease conditions, and hence need to be interpreted clinically.

- End of Report



Dr.Ritesh Kharche MD, PGD



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Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

#### HAEMATOLOGY

Test Name		Result		Unit	Bio	logical Reference Interval
Sample No: 00320504A Co	llection Date : 16/03/	/24 13:24	Ack Date :	16/03/2024 13:52	Report Date :	16/03/24 16:10
ERYTHROCYTE SEDIMENTAT	ION RATE (ESR)					
ESR		25	▲ (H)		mm/hr	0 - 20

Method: Westergren Method

#### INTERPRETATION :-

ESR is a non-specific phenomenon, its measurement is clinically useful in disorders associated with an increased production of acute-phase proteins. It provides an index of progress of the disease in rheumatoid arthritis or tuberculosis, and it is of considerable value in diagnosis of temporal arteritis and polymyalgia rheumatica. It is often used if multiple myeloma is suspected, but when the myeloma is non-secretory or light chain, a normal ESR does not exclude this diagnosis.

An elevated ESR may occur as an early feature in myocardial infarction. Although a normal ESR cannot be taken to exclude the presence of organic disease, the vast majority of acute or chronic infections and most neoplastic and degenerative diseases are associated with changes in the plasma proteins that increased ESR values.

The ESR is influenced by age, stage of the menstrual cycle and medications taken (corticosteroids, contraceptive pills). It is especially low (0-1 mm) in polycythaemia, hypofibrinogenaemia and congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis, or sickle cells. In cases of performance enhancing drug intake by athletes the ESR values are generally lower than the usual value for the individual and as a result of the increase in haemoglobin (i.e. the effect of secondary polycythaemia).

End of Report

Dr.Ritesh Kharche MD, PGD Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680

Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	<b>:</b> 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

# Biochemistry

Test Name			Result		Unit	Bio	logical Reference Interval
Sample No :	O0320457B	Collection Date :	16/03/24 10:21	Ack Date :	16/03/2024 10:50	Report Date :	16/03/24 13:00
GLUCOSE	-PLASMA-FAST	ING					
Glucose,Fa	sting		167	′ <b>.08</b> ▲ (H)		mg/dl	70 - 110
merican Diab	etes 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							
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.							
Sample No :	O0320457C	Collection Date :	16/03/24 10:21	Ack Date :	16/03/2024 10:50	Report Date :	16/03/24 12:53
Lipid Prof	ile						



-							
Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male				
UHID	: SHHM.89586	Order Date	<b>:</b> 16/03/2024 10:01				
Episode	: OP						
Ref. Doctor	: Self	Mobile No	: 8197230907				
		DOB	: 05/07/1970				
		Facility	: SEVENHILLS HOSPITAL, MUMBAI				
			1				

Total Cholesterol	193.46	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
Triglycerides Method - glycerol Phosphate Oxidase/Peroxide	97.98	mg/dl	NORMAL : <150 Borderline High : 150-199 High : 200-499 Very High : > 500
HDL Cholesterol Method - Enzymatic immuno inhibition	63.79	mg/dl	Desirable - Above 60 Borderline Risk : 40-59 Undesirable - Below :40
DL Cholesterol Method - Calculated	110.07	mg/dl	Desirable - Below : 130 Borderline Risk : 130-159 Undesirable - Above : 160
VLDL Cholesterol Method - Calculated	19.60	mg/dl	5 - 51
Total Cholesterol / HDL Cholesterol Ratio - Calculated Method - Calculated	3.03	RATIO	0 - 5



Patient Name UHID Episode Ref. Doctor	: Mr. VINAY BHUSHAN : SHHM.89586 : OP : Self		Order Date : Mobile No : DOB :	53 Year(s) / Mak 16/03/2024 10:0 8197230907 05/07/1970 SEVENHILLS HO	
		1.73		RATIO	0 - 3.6
LDL / HDL Cholesterol Ratio - Calculated       1.73       RATIO       0 - 3.6         Mote:       1) Biological Reference Interval is as per National Cholestrol Education Program (NCEP) Guidlines.       2)         2) tests done on Fully Automated Biosystem BA-400 Biochemistry Analyser.       Interpretation       1.71         1.riglycerides: 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 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					
Uric Acid (Ser Method - Uricase	<u>um)</u>				
Uric Acid Method - Uricase		<b>7.24</b> ▲ (H)		mg/dl	3.5 - 7.2



Patient Name	:	Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	:	SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	:	OP		
Ref. Doctor	:	Self	Mobile No	: 8197230907
			DOB	: 05/07/1970
			Facility	: SEVENHILLS HOSPITAL, MUMBAI

References:

1)Pack Insert of Bio system

2) TIETZ Textbook of Clinical chemistry and Molecular DiagnosticsEdited 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).

Liver Function Test ( LFT )			
SGOT (Aspartate Transaminase) - SERUM Method - IFCC	<b>38.84</b> ▲ (H)	IU/L	0 - 35
SGPT (Alanine Transaminase) - SERUM Method - IFCC	36.8	IU/L	0 - 45
Total Bilirubin - SERUM Method - Diazo	0.7	mg/dl	0 - 2
Direct Bilirubin SERUM Method - Diazotization	0.35	mg/dl	0 - 0.4
Indirect Bilirubin - Calculated Method - Calculated	0.35	mg/dl	0.1 - 0.8
Alkaline Phosphatase - SERUM Method - IFCC AMP Buffer	104.12	IU/L	43 - 115
Total Protein - SERUM Method - Biuret	7.76	gm/dl	6 - 7.8
Albumin - SERUM Method - Bromo Cresol Green(BCG)	4.61	gm/dl	3.5 - 5.2
Globulin - Calculated Method - Calculated	3.15	gm/dl	2 - 4
A:G Ratio Method - Calculated	1.46	:1	1 - 3



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

#### References:

1)Pack Insert of Bio system

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

Interperatation :-

Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Elevated levels results from increased bilirubin production (eg hemolysis and ineffective erythropoiesis); decreased bilirubin excretion (eg; obstruction and hepatitis); and abnormal bilirubin metabolism (eg; hereditary and neonatal jaundice).conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstonesgetting into the bile ducts tumors & Scarring of the bile ducts. Increased unconjugated (indirect) bilirubin may be a result of hemolytic or pernicious anemia, transfusion reaction & a common metabolic condition termed Gilbert syndrome.

AST levels increase in viral hepatitis, blockage of the bile duct ,cirrhosis of the liver, liver cancer, kidney failure, hemolytic anemia, pancreatitis, hemochromatosis.Ast levels may also increase after a heart attck or strenuous activity. ALT is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health. Elevated ALP levels are seen in Biliary Obstruction, Osteoblastic Bone Tumors, Osteomalacia, Hepatitis, Hyperparathyriodism, Leukemia,Lymphoma, paget`s disease, Rickets, Sarcoidosis etc.

*Elevated serum GGT activity can be found in diseases of the liver, Biliary system and pancreas. Conditions that increase serum GGT are obstructive liver disease, high alcohol consumption and use of enzyme-including drugs etc. Serum total protein, also known as total protein, is a biochemical test for measuring the total amount of protein in serum..Protein in the plasma is made up of albumin and globulin. Higher-than-normal levels may be due to: Chronic inflammation or infection, including HIV and hepatitis B or C, Multiple myeloma, Waldenstrom's disease. Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage), Burns, Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic - Human serum albumin is the most abundant protein in human blood plasma. It is produced in the liver.Albumin constitutes about half of the blood serum protein. Low blood albumin levels (hypoalbuminemia) can be caused by: Liver disease like cirrhosis of the liver, nephrotic syndrome, protein-losing enteropathy, Burns, hemodilution, increased vascular permeability or decreased lymphatic clearance, malnutrition and wasting etc.* 

Renal Function Test ( RFT )			
Urea - SERUM Method - Urease	28.9	mg/dl	15 - 39
BUN - SERUM Method - Urease-GLDH	13.50	mg/dl	4 - 18
Creatinine - SERUM Method - Jaffes Kinetic	0.9	mg/dl	0.5 - 1.3



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
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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:-

The blood urea nitrogen or BUN test is primarily used, along with the creatinine test, to evaluate kidney function in a wide range of circumstances, to help diagnose kidney disease, and to monitor people with acute or chronic kidney dysfunction or failure. It also may be used to evaluate a person's general health status.

HbA1c Method - Immunoturbidimetry	<b>9.33</b> ▲ (H)	%	4 to 6% Non-diabetic 6.07.0% Excellent
			control 7.08.0% Fair to good control 8.010% Unsatisfactory control ABOVE 10% Poor control
Estimated Average Glucose (eAG) Method - Calculated	<b>221.07</b> ▲ (H)	mg/dl	90 - 126



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
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		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

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 dapsone, 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

GLUCOSE-PLASMA POST PRANDIAL			
Glucose, Post Prandial	<b>272.3</b> ▲ (H)	mg/dl	70 - 140



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
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Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

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

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.

End of Report



Dr.Ritesh Kharche MD, PGD Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
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Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

#### IMMUNOLOGY

Test Name			Resu	lt	Unit	Bio	ogical Reference Interval
Sample No :	O0320457C	Collection Date :	16/03/24 10	:21 Ack Date :	16/03/2024 10:50	Report Date :	16/03/24 13:18
PSA -TOTA	AL-SERUM						
PSA- Prosta	te Specific Antige	en - SERUM		1.54		ng/ml	0.00 - 4.00

Biological Reference Interval :-Conventional for all ages: <=4 60 - 69 yrs: 0 - 4.5 Note : Change in method and Reference range

INTERPRETATION :

Prostate-specific antigen (PSA) is a glycoprotein that is produced by the prostate gland, the lining of the urethra, and the bulbourethral gland. PSA exists in serum mainly in two forms, complexed to alpha-1-anti-chymotrypsin (PSA-ACT complex) and unbound (free PSA). Increases in prostatic glandular size and tissue damage caused by benign prostatic hypertrophy, prostatitis, or prostate cancer may increase circulating PSA levels. Transient increase in PSA can also be seen following per rectal digital or sonological examinations.

NOTE:

Patients on Biotin supplement may have interference in some immunoassays. With individuals taking high dose Biotin (more than 5 mg per day) supplements, at least 8-hour wait time before blood draw is recommended. Ref: Arch Pathol Lab Med—Vol 141, November 2017

End of Report

Dr.Ritesh Kharche MD, PGD Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680

Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

### IMMUNOLOGY

Test Name	Result		Unit	Bio	logical Reference Interval
Sample No : 00320457C Collection Date : 16/03/2	24 10:21	1 Ack Date :	16/03/2024 10:50	Report Date :	16/03/24 13:18
T3 - SERUM	1	106.4		ng/dl	47.00 - 200.00
TFT- Thyroid Function Tests					
T4 - SERUM	6	5.9		ug/dL	4.60 - 10.50
TSH - SERUM	3	3.43		uIU/ml	0.40 - 4.50



Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	<b>:</b> 16/03/2024 10:01
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*Reference Ranges (T3) Pregnancy: First Trimester 81 - 190 Second Trimester & Third Trimester 100 - 260* 

*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 & Endocronology 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

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.

End of Report





Patient Name	: Mr. VINAY BHUSHAN	ge/Sex : 53 Year(s) / Male
UHID	: SHHM.89586	Order Date : 16/03/2024 10:01
Episode	: OP	
Ref. Doctor	: Self	<b>10bile No</b> : 8197230907
	ſ	<b>COB</b> : 05/07/1970
	I	acility : SEVENHILLS HOSPITAL, MUMBAI
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#### Dr.Ritesh Kharche MD, PGD

Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680



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Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

# Urinalysis

Test Name		Resul	t	Unit	Bio	logical Reference Interval
Sample No: 00320457D	Collection Date :	16/03/24 10:	21 Ack Date :	16/03/2024 10:51	Report Date :	16/03/24 12:34
Physical Examination						
QUANTITY			50		ml	
Colour			Pale Yellow			
Appearance			Clear			
DEPOSIT			Absent			Absent
рН			Acidic			
Specific Gravity			1.015			
Chemical Examination			1.015			
Protein			Absent			Absent
Sugar			Absent			Absent
ketones			Absent			Absent
Occult Blood			NEGATIVE			Negative
Bile Salt			Absent			Absent
Bile Pigments			Absent			Absent
Urobilinogen			Normal			Normal
NITRATE						
LEUKOCYTES			Absent			Absent Absent

Patient Name: Mr. VINAY BHUSHANUHID: SHHM.89586Episode: OPRef. Doctor: Self	Age/Sex Order Date Mobile No DOB Facility	: 53 Year(s) / M : 16/03/2024 10 : 8197230907 : 05/07/1970 : SEVENHILLS H	
Microscopic Examination			
Pus cells	1-2	/HPF	
Epithelial Cells	2-3	/HPF	
RBC	Absent	/HPF	Absent
Cast	Absent	/LPF	Absent
Crystal	Absent	/HPF	Absent
Amorphous Materials	Absent		Absent
Yeast	Absent		Absent
Bacteria	Absent		Absent
URINE SUGAR AND KETONE (FASTING)			
Sugar	Absent		
ketones	Absent		
URINE SUGAR AND KETONE (PP)			
Sugar	POSITIVE (+)		
ketones	Absent		

End of Report



Dr.Ritesh Kharche MD, PGD Consultant Pathologist and Director of Laboratory Services RegNo: 2006/03/1680

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Patient Name	: Mr. VINAY BHUSHAN	Age/Sex	: 53 Year(s) / Male
UHID	: SHHM.89586	Order Date	: 16/03/2024 10:01
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 8197230907
		DOB	: 05/07/1970
		Facility	: SEVENHILLS HOSPITAL, MUMBAI
l			

Patient Name Aqe/Sex UHID	: Mr. VINAY BHUSHAN : 53 Year(s)/Male : SHHM.89586	Order Date Report Date	: 16/03/2024 10:01 : 18/03/2024 12:24
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 8197230907
Address	: MANISH PARK, andheri east, M	umbai, Maharastra, 400093	

#### USG ABDOMEN AND PELVIS

Liver is normal in size (14.7 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 evidence of peri-cholecystic fluid is seen.

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 (10.4 cm) and echotexture. No focal lesion is seen in the spleen.

Right kidney measures 11.2 x 4.6 cm. Left kidney measures 9.8 x 5.8 cm.

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

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

Prevoid volume = 413 cc, Postvoid volume = 16 cc.

#### Prostate is mildly enlarged. It measures 3.9 x 4.5 x 3.7 cm corresponding to 35.7 cc.

There is no free fluid in abdomen and pelvis. **IMPRESSION** 

·Grade I fatty liver. ·Mild prostatomegaly.

Dr.Rashmi Randive MBBS,MD

Patient Name Aqe/Sex UHID	: Mr. VINAY BHUSHAN : 53 Year(s)/Male : SHHM.89586	Order Date Report Date	: 16/03/2024 10:01 : 18/03/2024 12:24
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 8197230907
Address	: MANISH PARK, andheri east, M	umbai, Maharastra, 400093	

### **DIAGNOSTICS REPORT**

RegNo: 2018/05/1427

Patient Name Aqe/Sex UHID	: Mr. VINAY BHUSHAN : 53 Year(s)/Male : SHHM.89586	Order Date Report Date	: 16/03/2024 10:01 : 16/03/2024 17:43
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 8197230907
Address	: MANISH PARK, andheri east, Mumbai, Maharastra, 400093		

### **DIAGNOSTICS REPORT**

# X-RAY CHEST PA VIEW

Both lungs are clear.

# Cardiomegaly is seen.

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.

Bula

Dr.Bhujang Pai MBBS,MD

Consultant RegNo: 49380