Patient Name Age/Sex UHID	: Mrs. SARIKA MITTAL : 50 Year(s)/Female : SHHM.90444	Order Date Report Date	<ul><li>27/03/2024 09:32</li><li>27/03/2024 10:17</li></ul>
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 9820732293
Address	: VILE PARLE, Vile Parle, Mumba	ai, Maharastra, 400099	

# 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

Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

## **Blood Bank**

Test Name			Result				
Sample No :	O0322507A	Collection Date :	27/03/24 09:37	Ack Date :	27/03/2024 10:56	Report Date :	27/03/24 13:07
BLOOD GR	ROUPING/ CR	OSS-MATCHING E	BY SEMI AUTOM	IATION			
BLOOD GRO	oup (ABO)		'B'				
Rh Type     POSITIVE							
or O and wheth Ensure compand the ABO and Determine co Important durin	her he or she is atibility betwee nd Rh type of ti mpatibility betw ng pregnancy b	Rh positive or Rh n n the blood type of a he unit of blood that veen a pregnant wo ecause a mother an	egative. Blood typ a person who req t will be transfuse man and her dev d her fetus could	oing has the puires a trans od. eloping baby be incompat	her a person is blood following significance fusion of blood or blo (fetus). Rh typing is ible.	e, ood components	
	5 1	of potential blood do of potential donors a		,	es, 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.Pooja Vinod Mishra MD Pathology Jr Consultant Pathologist, MMC Reg No. 2017052191 RegNo: 2017/05/2191

Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

### HAEMATOLOGY

Sample No :       00322507A       Collection Date :       27/03/24       09:37       Ack Date :       27/03/2024       10:46       Report Date :         ERYTHROCYTE SEDIMENTATION RATE (ESR)       ESD       ESD       ESD       ESD       ESD	Result Unit Biological Reference Interv	Re	Test Name
	Collection Date : 27/03/24 09:37 Ack Date : 27/03/2024 10:46 Report Date : 27/03/24 13:49	O0322507A Collection Date : 27/03/24	Sample No :
ECD	IMENTATION RATE (ESR)	<u>CYTE SEDIMENTATION RATE (ESR)</u>	ERYTHROC
LSK <b>61 ▲ (H)</b> mm/hr	<b>61</b> ▲ (H) mm/hr 0 - 20		ESR

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	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

## Biochemistry

st Name		Result		Unit		logical Reference Interva
Sample No: 003225	07A Collection Date :	27/03/24 09:37	Ack Date :	27/03/2024 10:46	Report Date :	27/03/24 12:14
GLYCOSLYATED	HAEMOGLOBIN (HBA1C	D I				
HbA1c Method - Immunoturbio	limetry	6.0	<b>5 ▲</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 Method - Calculated	Glucose (eAG)	126	5 <b>.93</b> ▲ (H)		mg/dl	90 - 126



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI
1			

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-FASTING			
Glucose,Fasting	87.17	mg/dl	70 - 110



Patient Name	:	Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	:	SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	:	OP		
Ref. Doctor	:	Self	Mobile No	: 9820732293
			DOB	: 08/06/1973
			Facility	: SEVENHILLS HOSPITAL, MUMBAI

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	288.96	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



Patient Name: Mrs. SARIKA MITTALUHID: SHHM.90444Episode: OPRef. Doctor: Self		Age/Sex Order Date Mobile No DOB Facility	: 50 Year(s) / Fer : 27/03/2024 09: : 9820732293 : 08/06/1973 : SEVENHILLS HC	
Triglycerides Method - glycerol Phosphate Oxidase/Peroxide	134.16		mg/dl	NORMAL : <150 Borderline High : 150-199 High : 200-499 Very High : > 500
HDL Cholesterol Method - Enzymatic immuno inhibition	44.3		mg/dl	Desirable - Above 60 Borderline Risk : 40-59 Undesirable - Below :40
LDL Cholesterol Method - Calculated	<b>217.83 ▲</b> (H)		mg/dl	Desirable - Below : 130 Borderline Risk : 130-159 Undesirable - Above : 160
VLDL Cholesterol Method - Calculated	26.83		mg/dl	5 - 51
Total Cholesterol / HDL Cholesterol Ratio - Calculated Method - Calculated	<b>6.52</b> ▲ (H)		RATIO	0 - 4.5
LDL / HDL Cholesterol Ratio - Calculated Method - Calculated	<b>4.92</b> ▲ (H)		RATIO	0 - 3.2



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI
1			

Note:

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

#### Interpretation

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.
 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 deficiency and in people with hyperthyroidism, infection, inflammation, or cirrhosis.

Uric Acid (Serum) Method - Uricase			
Uric Acid Method - Uricase	4.84	mg/dl	2.6 - 6

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).



atient Name: Mrs. SARIKA MITTALHID: SHHM.90444pisode: OPef. Doctor: Self	Age/Sex Order Date Mobile No DOB Facility	: 50 Year(s) / Female : 27/03/2024 09:32 : 9820732293 : 08/06/1973 : SEVENHILLS HOSPITAL, MUMBAI	
Liver Function Test ( LFT )			
SGOT (Aspartate Transaminase) - SERUM Method - IFCC	17.22	IU/L	0 - 31
SGPT (Alanine Transaminase) - SERUM Method - IFCC	17.61	IU/L	0 - 34
Total Bilirubin - SERUM Method - Diazo	0.62	mg/dl	0 - 2
Direct Bilirubin SERUM Method - Diazotization	0.21	mg/dl	0 - 0.4
Indirect Bilirubin - Calculated Method - Calculated	0.41	mg/dl	0.1 - 0.8
Alkaline Phosphatase - SERUM Method - IFCC AMP Buffer	<b>113.13</b> (H)	IU/L	33 - 98
Total Protein - SERUM Method - Biuret	7.06	gm/dl	6 - 7.8
Albumin - SERUM Method - Bromo Cresol Green(BCG)	4.07	gm/dl	3.5 - 5.2
Globulin - Calculated Method - Calculated	2.99	gm/dl	2 - 4
A:G Ratio Method - Calculated	1.36	:1	1 - 3



Patient Name UHID	: Mrs. SARIKA MITTAL : SHHM.90444	Age/Sex Order Date	: 50 Year(s) / Female : 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		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	17.79	mg/dl	15 - 39
BUN - SERUM Method - Urease-GLDH	8.31	mg/dl	4 - 18
Creatinine - SERUM Method - Jaffes Kinetic	0.71	mg/dl	0.5 - 1.1



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
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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.

GLUCOSE-PLASMA POST PRANDIAL			
Glucose, Post Prandial	104.13	mg/dl	70 - 140

American Diabetes Association Reference Range :

Post-Prandial Blood Glucose:

Non- Diabetic: Up to 140mg/dLPre-Diabetic: 140-199 mg/dLDiabetic:>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

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Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
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		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

End of Report

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



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
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Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

## Biochemistry

st Name		Result		Unit		logical Reference Interva
Sample No: 003225	07A Collection Date :	27/03/24 09:37	Ack Date :	27/03/2024 10:46	Report Date :	27/03/24 12:14
GLYCOSLYATED	HAEMOGLOBIN (HBA1C	D I				
HbA1c Method - Immunoturbio	limetry	6.0	<b>5 ▲</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 Method - Calculated	Glucose (eAG)	126	5 <b>.93</b> ▲ (H)		mg/dl	90 - 126



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
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Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI
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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-FASTING			
Glucose,Fasting	87.17	mg/dl	70 - 110



Patient Name	:	Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	:	SHHM.90444	Order Date	: 27/03/2024 09:32
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			Facility	: SEVENHILLS HOSPITAL, MUMBAI

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.

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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	288.96	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



Patient Name: Mrs. SARIKA MITTALUHID: SHHM.90444Episode: OPRef. Doctor: Self		Age/Sex Order Date Mobile No DOB Facility	: 50 Year(s) / Fer : 27/03/2024 09: : 9820732293 : 08/06/1973 : SEVENHILLS HC	
Triglycerides Method - glycerol Phosphate Oxidase/Peroxide	134.16		mg/dl	NORMAL : <150 Borderline High : 150-199 High : 200-499 Very High : > 500
HDL Cholesterol Method - Enzymatic immuno inhibition	44.3		mg/dl	Desirable - Above 60 Borderline Risk : 40-59 Undesirable - Below :40
LDL Cholesterol Method - Calculated	<b>217.83 ▲</b> (H)		mg/dl	Desirable - Below : 130 Borderline Risk : 130-159 Undesirable - Above : 160
VLDL Cholesterol Method - Calculated	26.83		mg/dl	5 - 51
Total Cholesterol / HDL Cholesterol Ratio - Calculated Method - Calculated	<b>6.52</b> ▲ (H)		RATIO	0 - 4.5
LDL / HDL Cholesterol Ratio - Calculated Method - Calculated	<b>4.92</b> ▲ (H)		RATIO	0 - 3.2



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
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Note:

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

#### Interpretation

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.
 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 deficiency and in people with hyperthyroidism, infection, inflammation, or cirrhosis.

Uric Acid (Serum) Method - Uricase			
Uric Acid Method - Uricase	4.84	mg/dl	2.6 - 6

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1)Pack Insert of Bio system

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#### Interpretation:-

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including our DNA. Increased concentrations of uric acid can cause crystals to form in the joints, which can lead to the joint

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atient Name: Mrs. SARIKA MITTALHID: SHHM.90444pisode: OPef. Doctor: Self	Age/Sex Order Date Mobile No DOB Facility	: 50 Year(s) / : 27/03/2024 ( : 9820732293 : 08/06/1973 : SEVENHILLS	09:32
Liver Function Test ( LFT )			
SGOT (Aspartate Transaminase) - SERUM Method - IFCC	17.22	IU/L	0 - 31
SGPT (Alanine Transaminase) - SERUM Method - IFCC	17.61	IU/L	0 - 34
Total Bilirubin - SERUM Method - Diazo	0.62	mg/dl	0 - 2
Direct Bilirubin SERUM Method - Diazotization	0.21	mg/dl	0 - 0.4
Indirect Bilirubin - Calculated Method - Calculated	0.41	mg/dl	0.1 - 0.8
Alkaline Phosphatase - SERUM Method - IFCC AMP Buffer	<b>113.13</b> (H)	IU/L	33 - 98
Total Protein - SERUM Method - Biuret	7.06	gm/dl	6 - 7.8
Albumin - SERUM Method - Bromo Cresol Green(BCG)	4.07	gm/dl	3.5 - 5.2
Globulin - Calculated Method - Calculated	2.99	gm/dl	2 - 4
A:G Ratio Method - Calculated	1.36	:1	1 - 3



Patient Name UHID	: Mrs. SARIKA MITTAL : SHHM.90444	Age/Sex Order Date	: 50 Year(s) / Female : 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		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	17.79	mg/dl	15 - 39
BUN - SERUM Method - Urease-GLDH	8.31	mg/dl	4 - 18
Creatinine - SERUM Method - Jaffes Kinetic	0.71	mg/dl	0.5 - 1.1



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References:

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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.

GLUCOSE-PLASMA POST PRANDIAL			
Glucose, Post Prandial	104.13	mg/dl	70 - 140

American Diabetes Association Reference Range :

Post-Prandial Blood Glucose:

Non- Diabetic: Up to 140mg/dLPre-Diabetic: 140-199 mg/dLDiabetic:>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.



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		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

End of Report

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



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
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		Facility	: SEVENHILLS HOSPITAL, MUMBAI

## IMMUNOLOGY

Test Name	Result	:	Unit	Bio	logical Reference Interval
Sample No: 00322507C Collection Date :	27/03/24 09:3	Ack Date :	27/03/2024 10:46	Report Date :	27/03/24 11:42
T3 - SERUM		104.3		ng/dl	70.00 - 204.00
TFT- Thyroid Function Tests					
T4 - SERUM		8.43		ug/dL	4.60 - 10.50
TSH - SERUM		1.94		uIU/ml	0.40 - 4.50



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
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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	: Mrs. SARIKA MITTAL Age	e/Sex : 50 Year(s) / Female
UHID	: SHHM.90444 Ord	ler Date : 27/03/2024 09:32
Episode	: OP	
Ref. Doctor	: Self Mo	bile No : 9820732293
	DO	<b>B</b> : 08/06/1973
	Fac	ility : SEVENHILLS HOSPITAL, MUMBAI
l		

#### Dr.Ritesh Kharche MD, PGD

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



Patient Name	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI

## Urinalysis

est Name		Result		Unit	Bio	logical Reference Interval
Sample No: 00322507D	Collection Date :	27/03/24 09:37	Ack Date :	27/03/2024 10:42	Report Date :	27/03/24 13:29
Physical Examination						
QUANTITY		4	0		ml	
Colour		Р	ale Yellow			
Appearance		c	Clear			
DEPOSIT		A	bsent			Absent
рН		Δ	cidic			
Specific Gravity			.015			
Chemical Examination						
Protein		Δ	bsent			Absent
Sugar		А	bsent			Absent
ketones		A	bsent			Absent
Occult Blood		Ν	IEGATIVE			Negative
Bile Salt		Δ	lbsent			Absent
Bile Pigments		Α	bsent			Absent
Urobilinogen		Ν	lormal			Normal
NITRATE		Δ	bsent			Absent
LEUKOCYTES			bsent			Absent

Patient Name: Mrs. SARIKA MITTALUHID: SHHM.90444Episode: OPRef. Doctor: Self	Age/Sex Order Dat Mobile No	• <b>:</b> 9820732293	09:32
	DOB Facility	: 08/06/1973 : SEVENHILLS	HOSPITAL, MUMBAI
Microscopic Examination			
Pus cells	Occasional	/HPF	
Epithelial Cells	Occasional	/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	Absent		
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	: Mrs. SARIKA MITTAL	Age/Sex	: 50 Year(s) / Female
UHID	: SHHM.90444	Order Date	: 27/03/2024 09:32
Episode	: OP		
Ref. Doctor	: Self	Mobile No	: 9820732293
		DOB	: 08/06/1973
		Facility	: SEVENHILLS HOSPITAL, MUMBAI
l			

Patient Name Aqe/Sex UHID	: Mrs. SARIKA MITTAL : 50 Year(s)/Female : SHHM.90444	Order Date Report Date	<ul> <li>27/03/2024 09:32</li> <li>27/03/2024 18:48</li> </ul>
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 9820732293
Address	· VILE PARLE, Vile Parle, Mumbai, Maharastra, 400099		

## USG ABDOMEN PELVIS

Liver is normal in size (13.5 cm) and echotexture. No focal liver parenchymal lesion is seen. Intrahepatic portal and biliary radicles are normal.

Gall-bladder is partially 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 (10.3 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  $10.3 \times 4.2$  cm. Left kidney measures  $10.1 \times 4.3$  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  $6.7 \times 5.1 \times 3.8$  cm. A well defined hypoechoic heterogenous lesion aproximately measures  $1.0 \times 0.9$  mm at anterior interamural wall suggestive of calcifed uterine fibroid. Endometrial thickness measures 10 mm.

### Both ovaries are bulky in size and normal in echotexture.

The right ovary measures:  $3.5 \times 2.9 \times 2.5 \text{ cm}(\text{volume-14.1cc})$ . The left ovary measures:  $3.8 \times 2.4 \times 2.1 \text{ cm}(\text{volume-10.1cc})$ Both adnexae are clear.

There is no free fluid in abdomen and pelvis.

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Ref. Doctor	:	Facility	<ul> <li>SEVENHILLS HOSPITAL, MUMBAT</li> </ul>	
		Mobile	: 9820732293	
Address	: VILE PARLE, Vile Parle, Mumbai, Maharastra, 400099			

## **DIAGNOSTICS REPORT**

## IMPRESSION

Calcified uterine fibroid.
 Both ovaries are bulky.
 Nedds further evaluation, if clinically indicated.



Dr.Priya Vinod Phayde MBBS,DMRE

RegNo: 2020/11/6493

Patient Name Aqe/Sex UHID	: Mrs. SARIKA MITTAL : 50 Year(s)/Female : SHHM.90444	Order Date Report Date	: 27/03/2024 09:32 : 28/03/2024 14:16
Ref. Doctor	:	Facility	: SEVENHILLS HOSPITAL,
		Mobile	MUMBAI : 9820732293
Address	· VILE PARLE, Vile Parle, Mumbai, Maharastra, 400099		

## **DIAGNOSTICS REPORT**

# X-RAY CHEST PA VIEW

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.

Kula

Dr.Bhujang Pai MBBS,MD

Consultant RegNo: 49380