Hiranandani
HOSPITAL
(A Fortis Network Hospital)

Hiranandani Fortis Hospital
Mini Seashore Road,
Sector 10 - A, Vashi,
Navi Mumbai - 400 703.
Tel. : +91-22-3919 9222
Fax : +91-22-3919 9220/21
Email : vashi@vashihospital.com

BMI CHART

Date: 09/12/23

Name: Chanchala Sinha Age: 54 yrs Sex: M / F

BP: 180/100 mmHg → Repeat BP. Height (cms): 153 cm Weight(kgs): 71.5 kg BMI:

SpO2 - 100%.

Pulse 94 b/m.

WEIGHT lbs	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215
kgs	45.5	47.7	50.50	52.3	54.5	56.8	59.1	61.4	63.6	65.9	68.2	70.5	72.7	75.0	77.3	79.5	81.8	84.1	86.4	88.6	90.9	93.2	95.5	97.7
HEIGHT in/cm	Underweight					Healthy							Overweight				Obese				Extremely Obese			
5'0" - 152.4	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
5'1" - 154.9	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
5'2" - 157.4	18	19	20	21	22	22	23	24	25	26	27	28	29	30	31	32	33	33	34	35	36	37	38	39
5'3" - 160.0	17	18	19	20	21	22	23	24	24	25	26	27	28	29	30	31	32	32	33	34	35	36	37	38
5'4" - 162.5	17	18	18	19	20	21	22	23	24	24	25	26	27	28	29	30	31	31	32	33	34	35	36	37
5'5" - 165.1	16	17	18	19	20	20	21	22	23	24	25	25	26	27	28	29	30	30	31	32	33	34	35	35
5'6" - 167.6	16	17	17	18	19	20	21	21	22	23	24	25	25	26	27	28	29	29	30	31	32	33	34	34
5'7" - 170.1	15	16	17	18	18	19	20	21	22	22	23	24	25	25	26	27	28	29	29	30	31	32	33	33
5'8" - 172.7	15	16	16	17	18	19	19	20	21	22	22	23	24	25	25	26	27	28	28	29	30	31	32	32
5'9" - 176.2	14	15	16	17	17	18	19	20	20	21	22	22	23	24	25	25	26	27	28	28	29	30	31	31
5'10" - 177.8	14	15	15	16	17	18	18	19	20	20	21	22	23	23	24	25	25	26	27	28	28	29	30	30
5'11" - 180.3	14	14	15	16	16	17	18	19	19	20	21	21	22	23	23	24	25	25	26	27	28	28	29	30
6'0" - 182.8	13	14	14	15	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	27	27	28	29
6'1" - 185.4	13	13	14	15	15	16	17	17	18	19	19	20	21	21	22	23	23	24	25	25	26	27	27	28
6'2" - 187.9	12	13	14	14	15	16	16	17	18	18	19	19	20	21	21	22	23	23	24	25	25	26	27	27
6'3" - 190.5	12	13	13	14	15	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	25	25	26	26
6'4" - 193.0	12	12	13	14	14	15	15	16	17	17	18	18	19	20	20	21	22	22	23	23	24	25	25	26

Doctors Notes:

Signature

Hiranandani Healthcare Pvt. Ltd.
Mini Sea Shore Road, Sector 10 -A, Vashi, Navi Mumbai - 400703
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GST IN: 27AABCH5894D1ZG | PAN NO: AABCH5894D

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UHID	**12381878**	**Date**	**09/12/2023**		
Name	**Mrs.Chanchala Sinha**	**Sex**	**Female**	**Age**	**54**
OPD	**Dental 12**	**Health Check-up**			

O/E Stains +
- calculus +

-

Drug allergy:
Sys illness:

Treatment

R/d - ① Scaling Grade I (Cleaning)

② OPG (xray)

To pay -

⇒ OPG = Rs 1200

Dr. Trupti

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UHID	**12381878**	**Date**	**09/12/2023**		
Name	**Mrs.Chanchala Sinha**	**Sex**	**Female**	**Age**	**54**
OPD	**Opthal 14**	**Health Check-up**			

Drug allergy:
Sys illness:

O/C → Nil, sometimes Itching

O/E → BP : 26 times
(under medication.

OD → -0.50×90
OU
OS → -0.50×120

Add : +2.25 DSph

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Name	**Mrs.Chanchala Sinha**	**Sex**	**Female**	**Age**	**54**
OPD	**Pap Smear**	**Health Check-up**			

Drug allergy:
Sys illness:

Diagnostics Report

Fortis

MC-5837

agilus diagnostics

PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS :C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001453** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ABHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 10:37:00 RECEIVED : 09/12/2023 10:37:39 REPORTED :09/12/2023 19:58:27

CLINICAL INFORMATION :

UID:12381878 REQNO-1635545
CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units

HAEMATOLOGY - CBC

CBC-5, EDTA WHOLE BLOOD

BLOOD COUNTS, EDTA WHOLE BLOOD

HEMOGLOBIN (HB) METHOD : SLS METHOD	13.2	12.0 - 15.0	g/dL
RED BLOOD CELL (RBC) COUNT METHOD : HYDRODYNAMIC FOCUSING	4.68	3.8 - 4.8	mil/µL
WHITE BLOOD CELL (WBC) COUNT METHOD : FLUORESCENCE FLOW CYTOMETRY	5.71	4.0 - 10.0	thou/µL
PLATELET COUNT METHOD : HYDRODYNAMIC FOCUSING BY DC DETECTION	239	150 - 410	thou/µL

RBC AND PLATELET INDICES

HEMATOCRIT (PCV) METHOD : CUMULATIVE PULSE HEIGHT DETECTION METHOD	40.3	36.0 - 46.0	%
MEAN CORPUSCULAR VOLUME (MCV) METHOD : CALCULATED PARAMETER	86.1	83.0 - 101.0	fL
MEAN CORPUSCULAR HEMOGLOBIN (MCH) METHOD : CALCULATED PARAMETER	28.2	27.0 - 32.0	pg
MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION(MCHC) METHOD : CALCULATED PARAMETER	32.8	31.5 - 34.5	g/dL
RED CELL DISTRIBUTION WIDTH (RDW) METHOD : CALCULATED PARAMETER	13.1	11.6 - 14.0	%
MENTZER INDEX METHOD : CALCULATED PARAMETER	18.4		
MEAN PLATELET VOLUME (MPV) METHOD : CALCULATED PARAMETER	9.3	6.8 - 10.9	fL

WBC DIFFERENTIAL COUNT

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(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

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NEUTROPHILS METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	49	40.0 - 80.0	%
LYMPHOCYTES METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	**41 High**	20.0 - 40.0	%
MONOCYTES METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	5	2.0 - 10.0	%
EOSINOPHILS METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	5	1 - 6	%
BASOPHILS METHOD : FLOW CYTOMETRY WITH LIGHT SCATTERING	0	0 - 2	%
ABSOLUTE NEUTROPHIL COUNT METHOD : CALCULATED PARAMETER	2.80	2.0 - 7.0	thou/µL
ABSOLUTE LYMPHOCYTE COUNT METHOD : CALCULATED PARAMETER	2.34	1.0 - 3.0	thou/µL
ABSOLUTE MONOCYTE COUNT METHOD : CALCULATED PARAMETER	0.29	0.2 - 1.0	thou/µL
ABSOLUTE EOSINOPHIL COUNT METHOD : CALCULATED PARAMETER	0.29	0.02 - 0.50	thou/µL
ABSOLUTE BASOPHIL COUNT METHOD : CALCULATED PARAMETER	**0 Low**	0.02 - 0.10	thou/µL
NEUTROPHIL LYMPHOCYTE RATIO (NLR) METHOD : CALCULATED	1.2		

MORPHOLOGY

RBC METHOD : MICROSCOPIC EXAMINATION	PREDOMINANTLY NORMOCYTIC NORMOCHROMIC
WBC METHOD : MICROSCOPIC EXAMINATION	NORMAL MORPHOLOGY
PLATELETS METHOD : MICROSCOPIC EXAMINATION	ADEQUATE

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Interpretation(s)
RBC AND PLATELET INDICES-Mentzer Index (MCV/RBC) is an automated cell-counter based calculated screen tool to differentiate cases of Iron deficiency anaemia(>13) from Beta thalassaemia trait
(<13) in patients with microcytic anaemia. This needs to be interpreted in line with clinical correlation and suspicion. Estimation of HbA2 remains the gold standard for diagnosing a case of beta thalassaemia trait.
WBC DIFFERENTIAL COUNT-The optimal threshold of 3.3 for NLR showed a prognostic possibility of clinical symptoms to change from mild to severe in COVID positive patients. When age = 49.5 years old and NLR = 3.3, 46.1% COVID-19 patients with mild disease might become severe. By contrast, when age < 49.5 years old and NLR < 3.3, COVID-19 patients tend to show mild disease.
(Reference to - The diagnostic and predictive role of NLR, d-NLR and PLR in COVID-19 patients ; A.-P. Yang, et al.; International Immunopharmacology 84 (2020) 106504
This ratio element is a calculated parameter and out of NABL scope.

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HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (ESR),EDTA BLOOD

E.S.R	16	0 - 20	mm at 1 hr

METHOD : WESTERGREN METHOD

GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD

HBA1C	5.4	Non-diabetic: < 5.7 Pre-diabetics: 5.7 - 6.4 Diabetics: > or = 6.5 Therapeutic goals: < 7.0 Action suggested : > 8.0 (ADA Guideline 2021)	%

METHOD : HB VARIANT (HPLC)

ESTIMATED AVERAGE GLUCOSE(EAG)	108.3	< 116.0	mg/dL

METHOD : CALCULATED PARAMETER

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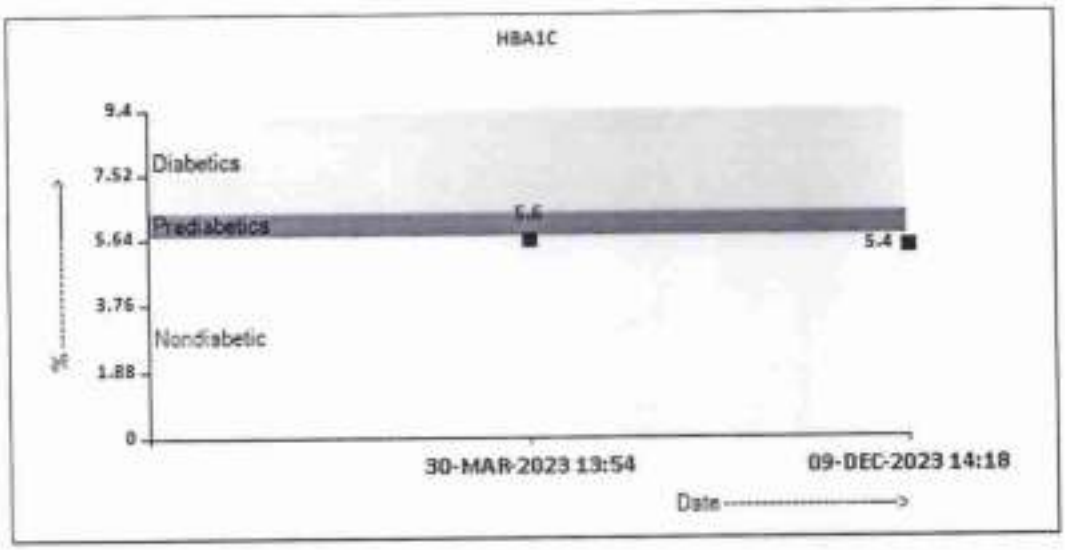

Interpretation(s)
ERYTHROCYTE SEDIMENTATION RATE (ESR),EDTA BLOOD-**TEST DESCRIPTION :-**
Erythrocyte sedimentation rate (ESR) is a test that indirectly measures the degree of inflammation present in the body. The test actually measures the rate of fall (sedimentation) of erythrocytes in a sample of blood that has been placed into a tall, thin, vertical tube. Results are reported as the millimetres of clear fluid (plasma) that are present at the top portion of the tube after one hour. Nowadays fully automated instruments are available to measure ESR.

ESR is not diagnostic; it is a non-specific test that may be elevated in a number of different conditions. It provides general information about the presence of an inflammatory condition.CRP is superior to ESR because it is more sensitive and reflects a more rapid change.

TEST INTERPRETATION
Increase in: Infections, Vasculities, Inflammatory arthritis, Renal disease, Anemia, Malignancies and plasma cell dyscrasias, Acute allergy Tissue injury, Pregnancy, Estrogen medication, Aging.
Finding a very accelerated ESR**(>100 mm/hour)** in patients with ill-defined symptoms directs the physician to search for a systemic disease (Paraproteinemias, Disseminated malignancies, connective tissue disease, severe infections such as bacterial endocarditis).
In pregnancy ESR in first trimester is 0-48 mm/hr(52 if anemic) and in second trimester (0-70 mm /hr(95 if anemic). ESR returns to normal 4th week post partum.
Decreased in: Polycythemia vera, Sickle cell anemia

LIMITATIONS
False elevated ESR : Increased fibrinogen, Drugs(Vitamin A, Dextran etc), Hypercholesterolemia
False Decreased : Poikilocytosis,(SickleCells,spherocytes),Microcytosis, Low fibrinogen, Very high WBC counts, Drugs(Quinine, salicylates)

REFERENCE :
1. Nathan and Oski's Haematology of Infancy and Childhood, 5th edition;2. Paediatric reference intervals, AACC Press, 7th edition. Edited by S. Soldin;3. The reference for

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the adult reference range is "Practical Haematology by Dacie and Lewis.10th edition.
GLYCOSYLATED HEMOGLOBIN(HBA1C), EDTA WHOLE BLOOD-**Used For:**

1. Evaluating the long-term control of blood glucose concentrations in diabetic patients.
2. Diagnosing diabetes.
3. Identifying patients at increased risk for diabetes (pre-diabetes).
The ADA recommends measurement of HbA1c (typically 3-4 times per year for type 1 and poorly controlled type 2 diabetic patients, and 2 times per year for well-controlled type 2 diabetic patients) to determine whether a patients metabolic control has remained continuously within the target range.
1. eAG (Estimated average glucose) converts percentage HbA1c to md/dl, to compare blood glucose levels.
2. eAG gives an evaluation of blood glucose levels for the last couple of months.
3. eAG is calculated as eAG (mg/dl) = 28.7 * HbA1c - 46.7

HbA1c Estimation can get affected due to :
1. Shortened Erythrocyte survival : Any condition that shortens erythrocyte survival or decreases mean erythrocyte age (e.g. recovery from acute blood loss,hemolytic anemia) will falsely lower HbA1c test results.Fructosamine is recommended in these patients which indicates diabetes control over 15 days.
2.Vitamin C & E are reported to falsely lower test results.(possibly by inhibiting glycation of hemoglobin.
3. Iron deficiency anemia is reported to increase test results. Hypertriglyceridemia,uremia, hyperbilirubinemia, chronic alcoholism,chronic ingestion of salicylates & opiates addiction are reported to interfere with some assay methods,falsely increasing results.
4. Interference of hemoglobinopathies in HbA1c estimation is seen in

a) Homozygous hemoglobinopathy. Fructosamine is recommended for testing of HbA1c.
b) Heterozygous state detected (D10 is corrected for HbS & HbC trait.)
c) HbF > 25% on alternate platform (Boronate affinity chromatography) is recommended for testing of HbA1c.Abnormal Hemoglobin electrophoresis (HPLC method) is recommended for detecting a hemoglobinopathy

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IMMUNOHAEMATOLOGY

ABO GROUP & RH TYPE, EDTA WHOLE BLOOD

ABO GROUP METHOD : TUBE AGGLUTINATION	TYPE AB		
RH TYPE METHOD : TUBE AGGLUTINATION	NEGATIVE		

Interpretation(s)
ABO GROUP & RH TYPE, EDTA WHOLE BLOOD-Blood group is identified by antigens and antibodies present in the blood. Antigens are protein molecules found on the surface of red blood cells. Antibodies are found in plasma. To determine blood group, red cells are mixed with different antibody solutions to give A,B,O or AB.

Disclaimer: "Please note, as the results of previous ABO and Rh group (Blood Group) for pregnant women are not available, please check with the patient records for availability of the same."

The test is performed by both forward as well as reverse grouping methods.

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BIOCHEMISTRY

LIVER FUNCTION PROFILE, SERUM

BILIRUBIN, TOTAL METHOD : JENDRASSIK AND GROFF	0.38	0.2 - 1.0	mg/dL
BILIRUBIN, DIRECT METHOD : JENDRASSIK AND GROFF	0.10	0.0 - 0.2	mg/dL
BILIRUBIN, INDIRECT METHOD : CALCULATED PARAMETER	0.28	0.1 - 1.0	mg/dL
TOTAL PROTEIN METHOD : BIURET	7.4	6.4 - 8.2	g/dL
ALBUMIN METHOD : BCP DYE BINDING	4.1	3.4 - 5.0	g/dL
GLOBULIN METHOD : CALCULATED PARAMETER	3.3	2.0 - 4.1	g/dL
ALBUMIN/GLOBULIN RATIO METHOD : CALCULATED PARAMETER	1.2	1.0 - 2.1	RATIO
ASPARTATE AMINOTRANSFERASE(AST/SGOT) METHOD : UV WITH P5P	18	15 - 37	U/L
ALANINE AMINOTRANSFERASE (ALT/SGPT) METHOD : UV WITH P5P	32	< 34.0	U/L
ALKALINE PHOSPHATASE METHOD : PNPP-AMP	62	30 - 120	U/L
GAMMA GLUTAMYL TRANSFERASE (GGT) METHOD : GAMMA GLUTAMYLCARBOXY 4NITROANILIDE	22	5 - 55	U/L
LACTATE DEHYDROGENASE METHOD : LACTATE -PYRUVATE	141	81 - 234	U/L

GLUCOSE FASTING,FLUORIDE PLASMA

FBS (FASTING BLOOD SUGAR) METHOD : HEXOKINASE	95	Normal : < 100 Pre-diabetes: 100-125 Diabetes: >/=126	mg/dL

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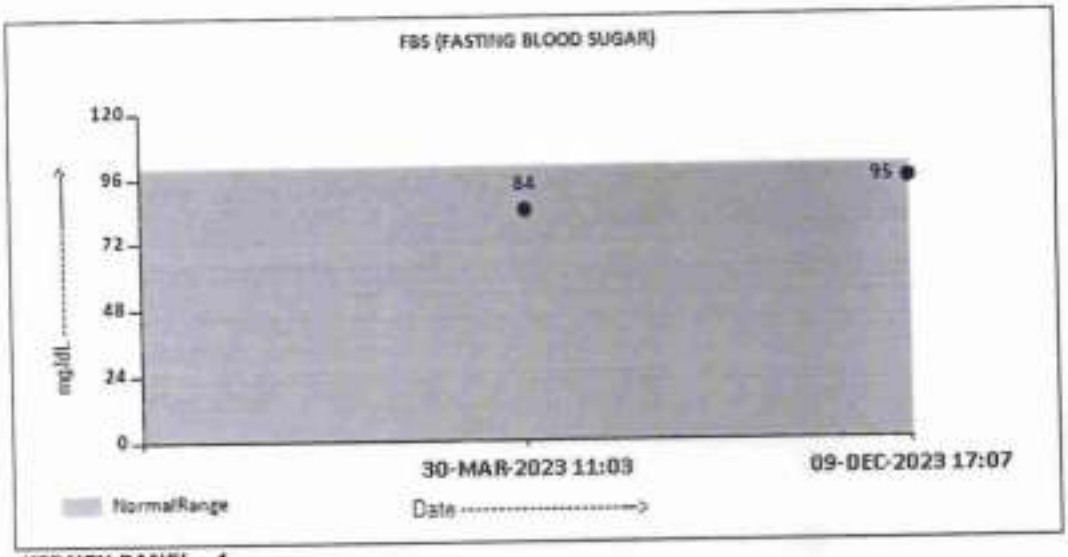
PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS : C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001453** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ABHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 10:37:00 RECEIVED : 09/12/2023 10:37:39 REPORTED :09/12/2023 19:58:27

CLINICAL INFORMATION :

UID:12381878 REQNO-1635545
CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units



KIDNEY PANEL - 1

BLOOD UREA NITROGEN (BUN), SERUM

BLOOD UREA NITROGEN	10	6 - 20	mg/dL

METHOD : UREASE - UV

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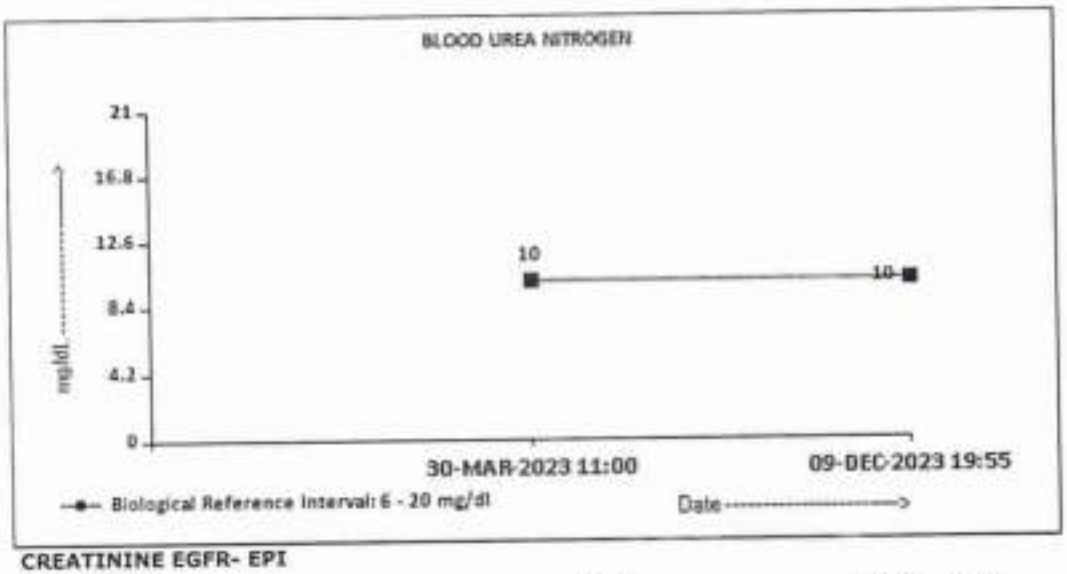

CREATININE EGFR- EPI

CREATININE	0.77	0.60 - 1.10	mg/dL
METHOD : ALKALINE PICRATE KINETIC JAFFES			
AGE	54		years
GLOMERULAR FILTRATION RATE (FEMALE)	91.61	Refer Interpretation Below	mL/min/1.73m2
METHOD : CALCULATED PARAMETER			

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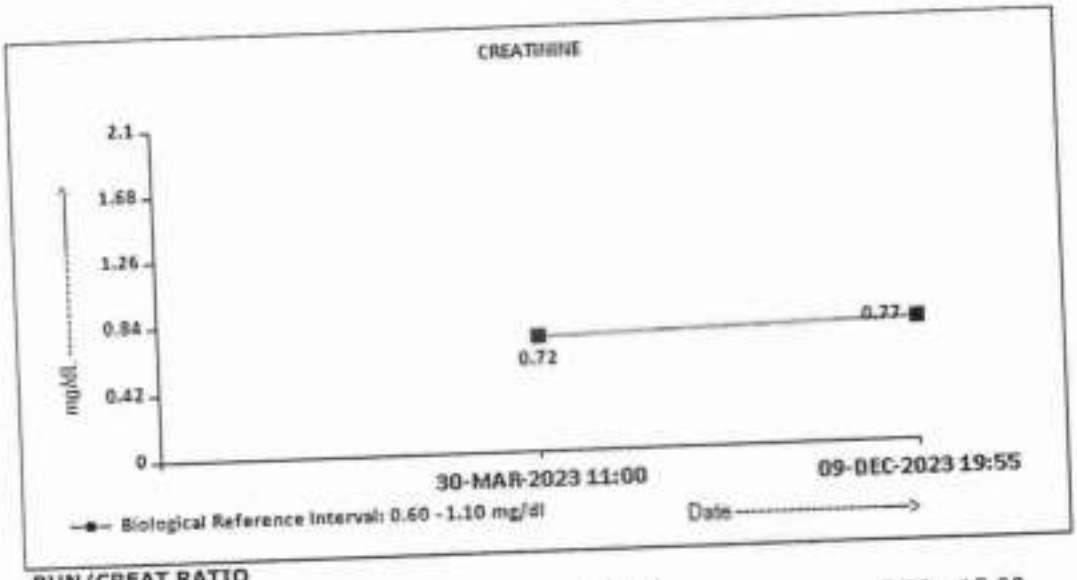

BUN/CREAT RATIO BUN/CREAT RATIO METHOD : CALCULATED PARAMETER	12.99	5.00 - 15.00	
URIC ACID, SERUM URIC ACID METHOD : URICASE UV	6.9 High	2.6 - 6.0	mg/dL
TOTAL PROTEIN, SERUM TOTAL PROTEIN METHOD : BIURET	7.4	6.4 - 8.2	g/dL
ALBUMIN, SERUM			

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ALBUMIN METHOD : BCP DYE BINDING	4.1	3.4 - 5.0	g/dL
GLOBULIN			
GLOBULIN METHOD : CALCULATED PARAMETER	3.3	2.0 - 4.1	g/dL
ELECTROLYTES (NA/K/CL), SERUM			
SODIUM, SERUM METHOD : ISE INDIRECT	141	136 - 145	mmol/L
POTASSIUM, SERUM METHOD : ISE INDIRECT	4.88	3.50 - 5.10	mmol/L
CHLORIDE, SERUM METHOD : ISE INDIRECT	105	98 - 107	mmol/L

Interpretation(s)

Interpretation(s)
LIVER FUNCTION PROFILE, SERUM-
Bilirubin is a yellowish pigment found in bile and is a breakdown product of normal heme catabolism. Bilirubin is excreted in bile and urine, and elevated levels may give yellow discoloration in jaundice.**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 elevated more than unconjugated (indirect) bilirubin in Viral hepatitis, Drug reactions, Alcoholic liver disease Conjugated (direct) bilirubin is also elevated more than unconjugated (indirect) bilirubin when there is some kind of blockage of the bile ducts like in Gallstones getting 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, due to low levels of the enzyme that attaches sugar molecules to bilirubin.
AST is an enzyme found in various parts of the body. AST is found in the liver, heart, skeletal muscle, kidneys, brain, and red blood cells, and it is commonly measured clinically as a marker for liver health. AST levels increase during chronic 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 attack or strenuous activity.ALT test measures the amount of this enzyme in the blood.ALT is found mainly in the liver, but also in smaller amounts in the kidneys,heart,muscles, and pancreas.It is commonly measured as a part of a diagnostic evaluation of hepatocellular injury, to determine liver health.AST levels increase during acute hepatitis,sometimes due to a viral infection,ischemia to the liver,chronic hepatitis,obstruction of bile ducts,cirrhosis.
ALP is a protein found in almost all body tissues.Tissues with higher amounts of ALP include the liver,bile ducts and bone.Elevated ALP levels are seen in Biliary obstruction, Osteoblastic bone tumors, osteomalacia, hepatitis, Hyperparathyroidism, Leukemia, Lymphoma, Pagets disease,Rickets,Sarcoidosis etc. Lower-than-normal ALP levels seen in Hypophosphatasia,Malnutrition,Protein deficiency,Wilsons disease.
GGT is an enzyme found in cell membranes of many tissues mainly in the liver,kidney and pancreas.It is also found in other tissues including intestine,spleen,heart, brain and seminal vesicles.The highest concentration is in the kidney,but the liver is considered the source of normal enzyme activity.Serum GGT has been widely used as an index of liver dysfunction.Elevated serum GGT activity can be found in diseases of the liver,biliary system and pancreas.Conditions that increase serum GGT are obstructive

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liver disease,high alcohol consumption and use of enzyme-inducing drugs etc.
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,Waldenstroms
disease.Lower-than-normal levels may be due to: Agammaglobulinemia,Bleeding (hemorrhage),Burns,Glomerulonephritis,Liver disease, Malabsorption,Malnutrition,Nephrotic syndrome,Protein-losing enteropathy etc.
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
GLUCOSE FASTING,FLUORIDE PLASMA-**TEST DESCRIPTION**
Normally, the glucose concentration in extracellular fluid is closely regulated so that a source of energy is readily available to tissues and sothat no glucose is excreted in the urine.
Increased in:Diabetes mellitus, Cushing' s syndrome (10 – 15%), chronic pancreatitis (30%). Drugs:corticosteroids,phenytoin, estrogen, thiazides.
Decreased in :Pancreatic islet cell disease with increased insulin,insulinoma,adrenocortical insufficiency,hypopituitarism,diffuse liver disease, malignancy(adrenocortical stomach,fibrosarcoma),infant of a diabetic mother,enzyme deficiency
diseases(e.g.galactosemia),Drugs-insulin,ethanol,propranolol;sulfonylureas,tolbutamide,and other oral hypoglycemic agents.
NOTE: While random serum glucose levels correlate with home glucose monitoring results (weekly mean capillary glucose values),there is wide fluctuation within individuals.Thus, glycosylated hemoglobin(HbA1c) levels are favored to monitor glycemic control.
High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment,Renal Glycosuria,Glycaemic index & response to food consumed,Alimentary Hypoglycaemia,Increased insulin response & sensitivity etc.
BLOOD UREA NITROGEN (BUN), SERUM-**Causes of Increased** levels include Pre renal (High protein diet, Increased protein catabolism, GI haemorrhage, Corticol, Dehydration, CHF Renal), Renal Failure, Post Renal (Malignancy, Nephrolithiasis, Prostatism)
Causes of decreased level include Liver disease, SIADH.
CREATININE EGFR- EPI-- Kidney disease outcomes quality initiative (KDOQI) guidelines state that estimation of GFR is the best overall indices of the Kidney function.
- It gives a rough measure of number of functioning nephrons .Reduction in GFR implies progression of underlying disease.
- The GFR is a calculation based on serum creatinine test.
- Creatinine is mainly derived from the metabolism of creatine in muscle, and its generation is proportional to the total muscle mass. As a result, mean creatinine generation is higher in men than in women, in younger than in older individuals, and in blacks than in whites.
- Creatinine is filtered from the blood by the kidneys and excreted into urine at a relatively steady rate.
- When kidney function is compromised, excretion of creatinine decreases with a consequent increase in blood creatinine levels. With the creatinine test, a reasonable estimate of the actual GFR can be determined.
- This equation takes into account several factors that impact creatinine production, including age, gender, and race.
- CKD EPI (Chronic kidney disease epidemiology collaboration) equation performed better than MDRD equation especially when GFR is high(>60 ml/min per 1.73m2).. This formula has less bias and greater accuracy which helps in early diagnosis and also reduces the rate of false positive diagnosis of CKD.

References:

National Kidney Foundation (NKF) and the American Society of Nephrology (ASN).
Estimated GFR Calculated Using the CKD-EPI equation-https://bestguide.labmed.uw.edu/guideline/egfr
Ghuman JK, et al. Impact of Removing Race Variable on CKD Classification Using the Creatinine-Based 2021 CKD-EPI Equation. Kidney Med 2022, 4:100471. 35756325
Harrison"s Principle of Internal Medicine, 21st ed. pg 62 and 334
URIC ACID, SERUM-**Causes of Increased levels:**-Dietary(High Protein Intake,Prolonged Fasting,Rapid weight loss),Gout,Lesch nyhan syndrome,Type 2 DM,Metabolic syndrome **Causes of decreased levels**-Low Zinc intake,OCP,Multiple Sclerosis
TOTAL PROTEIN, SERUM-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,Waldenstroms disease.
Lower-than-normal levels may be due to: Agammaglobulinemia, Bleeding (hemorrhage),Burns,Glomerulonephritis, Liver disease, Malabsorption, Malnutrition, Nephrotic syndrome,Protein-losing enteropathy etc.
ALBUMIN, SERUM-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.

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BIOCHEMISTRY - LIPID

LIPID PROFILE, SERUM

CHOLESTEROL, TOTAL	**229 High**	< 200 Desirable 200 - 239 Borderline High >/= 240 High	mg/dL
METHOD : ENZYMATIC/COLORIMETRIC,CHOLESTEROL OXIDASE, ESTERASE, PEROXIDASE TRIGLYCERIDES	**162 High**	< 150 Normal 150 - 199 Borderline High 200 - 499 High >/=500 Very High	mg/dL
METHOD : ENZYMATIC ASSAY HDL CHOLESTEROL	48	< 40 Low >/=60 High	mg/dL
METHOD : DIRECT MEASURE - PEG LDL CHOLESTEROL, DIRECT	**141 High**	< 100 Optimal 100 - 129 Near or above optimal 130 - 159 Borderline High 160 - 189 High >/= 190 Very High	mg/dL
METHOD : DIRECT MEASURE WITHOUT SAMPLE PRETREATMENT NON HDL CHOLESTEROL	**181 High**	Desirable: Less than 130 Above Desirable: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very high: > or = 220	mg/dL
METHOD : CALCULATED PARAMETER VERY LOW DENSITY LIPOPROTEIN	**32.4 High**	</= 30.0	mg/dL
METHOD : CALCULATED PARAMETER CHOL/HDL RATIO	**4.8 High**	3.3 - 4.4 Low Risk 4.5 - 7.0 Average Risk 7.1 - 11.0 Moderate Risk > 11.0 High Risk	

METHOD : CALCULATED PARAMETER

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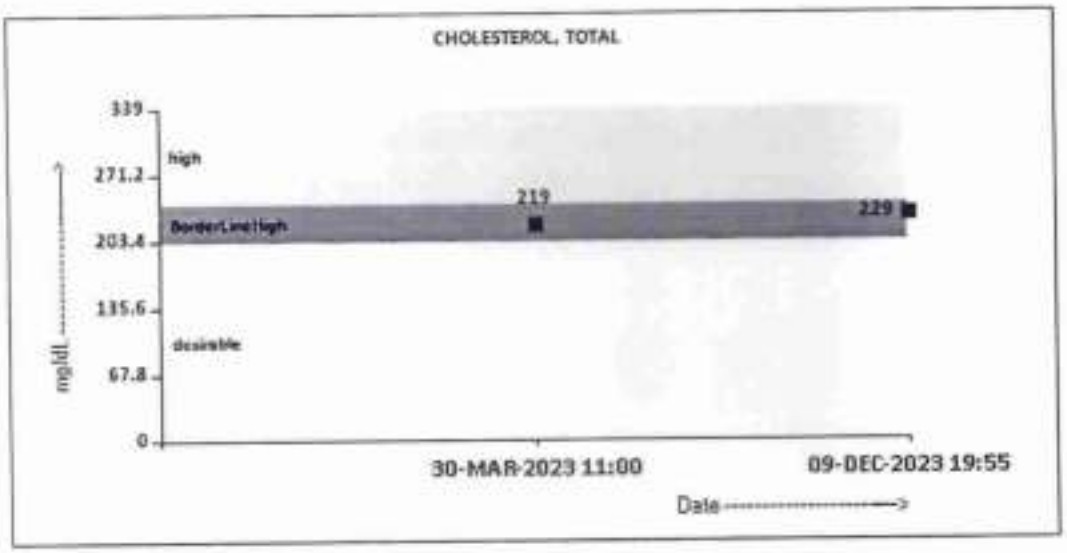
LDL/HDL RATIO	2.9	0.5 - 3.0 Desirable/Low Risk 3.1 - 6.0 Borderline/Moderate Risk >6.0 High Risk	

METHOD : CALCULATED PARAMETER



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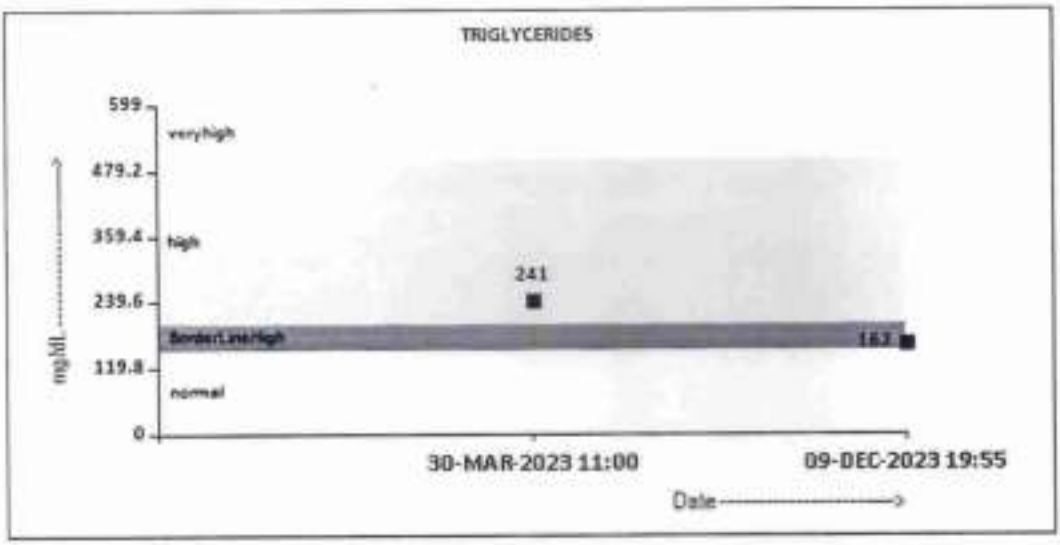

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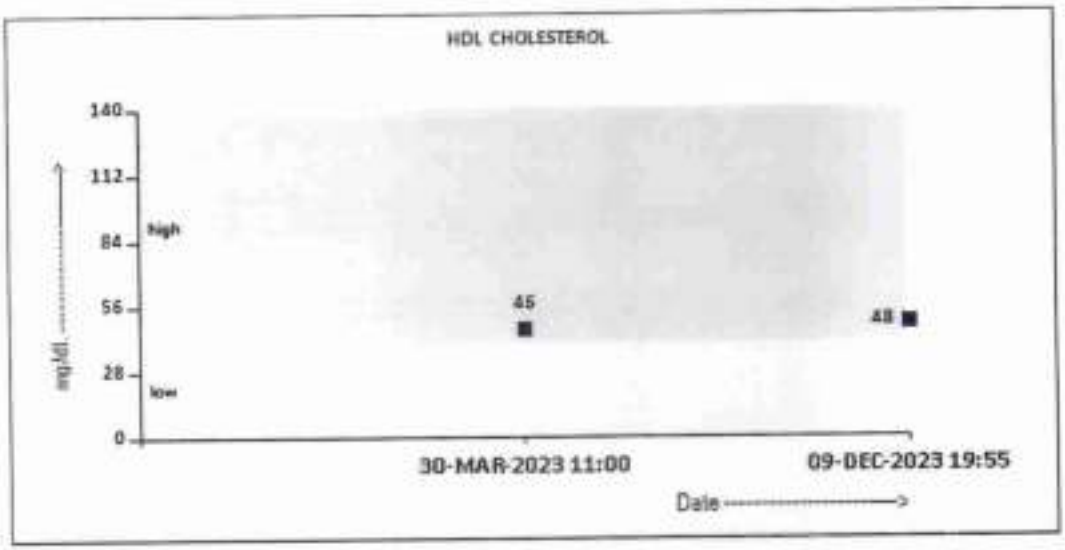

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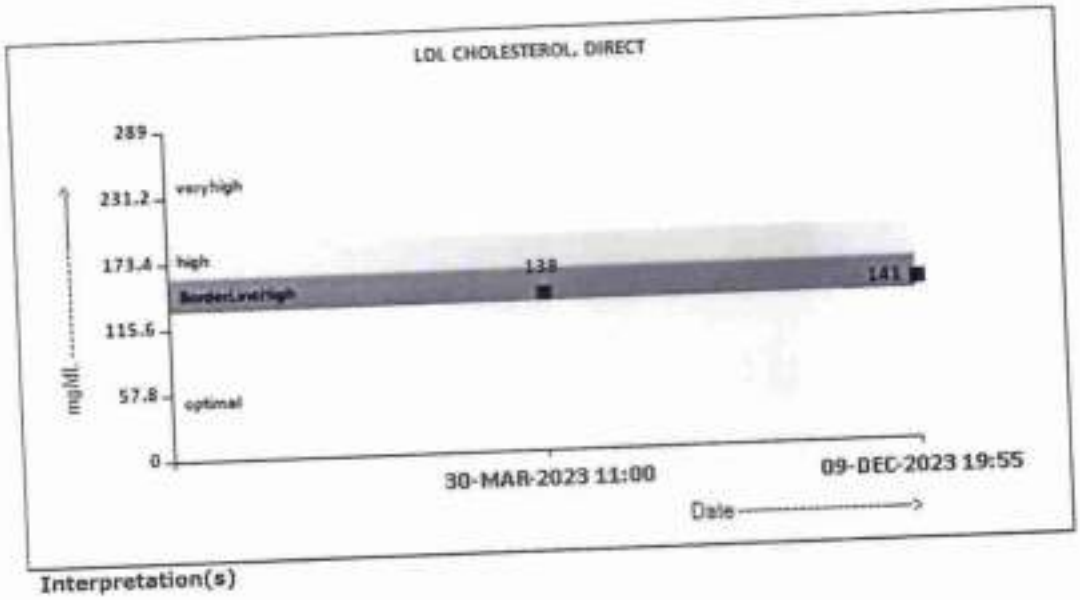

Interpretation(s)

Dr. Akshay Dhotre, MD
(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

View Details View Report

Patient Ref. No. 220000008893373

PERFORMED AT :
Agilus Diagnostics Ltd,
Hiranandani Hospital-Vashi, Mini Seashore Road, Sector 10,
Navi Mumbai, 400703
Maharashtra, India
Tel : 022-39199222,022-49723322,
CIN - U74899PB1995PLC045956
Email : -

PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS : C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001453** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ABHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 10:37:00 RECEIVED : 09/12/2023 10:37:39 REPORTED :09/12/2023 19:58:27

CLINICAL INFORMATION :

UID:12381878 REQNO-1635545
CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units

CLINICAL PATH - URINALYSIS

KIDNEY PANEL - 1

PHYSICAL EXAMINATION, URINE

COLOR METHOD : PHYSICAL	PALE YELLOW	
APPEARANCE METHOD : VISUAL	**SLIGHTLY HAZY**	

CHEMICAL EXAMINATION, URINE

PH METHOD : REFLECTANCE SPECTROPHOTOMETRY- DOUBLE INDICATOR METHOD	6.0	4.7 - 7.5
SPECIFIC GRAVITY METHOD : REFLECTANCE SPECTROPHOTOMETRY (APPARENT PKA CHANGE OF PRETREATED POLYELECTROLYTES IN RELATION TO IONIC CONCENTRATION)	<=1.005	1.003 - 1.035
PROTEIN METHOD : REFLECTANCE SPECTROPHOTOMETRY - PROTEIN-ERROR-OF-INDICATOR PRINCIPLE	NOT DETECTED	NOT DETECTED
GLUCOSE METHOD : REFLECTANCE SPECTROPHOTOMETRY, DOUBLE SEQUENTIAL ENZYME REACTION-GOD/POD	NOT DETECTED	NOT DETECTED
KETONES METHOD : REFLECTANCE SPECTROPHOTOMETRY, ROTHERA'S PRINCIPLE	NOT DETECTED	NOT DETECTED
BLOOD METHOD : REFLECTANCE SPECTROPHOTOMETRY, PEROXIDASE LIKE ACTIVITY OF HAEMOGLOBIN	NOT DETECTED	NOT DETECTED
BILIRUBIN METHOD : REFLECTANCE SPECTROPHOTOMETRY, DIAZOTIZATION- COUPLING OF BILIRUBIN WITH DIAZOTIZED SALT	NORMAL	NORMAL
UROBILINOGEN METHOD : REFLECTANCE SPECTROPHOTOMETRY (MODIFIED EHRLICH REACTION)	NOT DETECTED	NOT DETECTED
NITRITE METHOD : REFLECTANCE SPECTROPHOTOMETRY, CONVERSION OF NITRATE TO NITRITE	**DETECTED (+)**	NOT DETECTED
LEUKOCYTE ESTERASE METHOD : REFLECTANCE SPECTROPHOTOMETRY, ESTERASE HYDROLYSIS ACTIVITY		

Dr. Akshay Dhotre, MD
(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

Dr. Rekha Nair, MD
(Reg No. MMC 2001/06/2354)
Microbiologist

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Email : -

Patient Ref. No. 220000000869373

Diagnostics Report

Fortis

MC-5837

agilus diagnostics

PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS : C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001453** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ABHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 10:37:00 RECEIVED : 09/12/2023 10:37:39 REPORTED :09/12/2023 19:58:27

CLINICAL INFORMATION :

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CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units
MICROSCOPIC EXAMINATION, URINE			
RED BLOOD CELLS	NOT DETECTED	NOT DETECTED	/HPF
METHOD : MICROSCOPIC EXAMINATION			
PUS CELL (WBC'S)	**15-20**	0-5	/HPF
METHOD : MICROSCOPIC EXAMINATION			
EPITHELIAL CELLS	3-5	0-5	/HPF
METHOD : MICROSCOPIC EXAMINATION			
CASTS	NOT DETECTED		
METHOD : MICROSCOPIC EXAMINATION			
CRYSTALS	NOT DETECTED		
METHOD : MICROSCOPIC EXAMINATION			
BACTERIA	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
YEAST	NOT DETECTED	NOT DETECTED	
METHOD : MICROSCOPIC EXAMINATION			
REMARKS	URINARY MICROSCOPIC EXAMINATION DONE ON URINARY CENTRIFUGED SEDIMENT		

Interpretation(s)

Dr. Akshay Dhotre, MD
(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

Rekha. N

Dr. Rekha Nair, MD
(Reg No. MMC 2001/06/2354)
Microbiologist

View Details View Report

Patient Ref. No. 220000000889373

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Fortis

agilus diagnostics

PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS : C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001453** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ASHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 10:37:00 RECEIVED : 09/12/2023 10:37:39 REPORTED :09/12/2023 19:58:27

CLINICAL INFORMATION :

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CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units

SPECIALISED CHEMISTRY - HORMONE

THYROID PANEL, SERUM

T3	149.2	Non-Pregnant Women 80.0 - 200.0 Pregnant Women 1st Trimester:105.0 - 230.0 2nd Trimester:129.0 - 262.0 3rd Trimester:135.0 - 262.0	ng/dL

METHOD : ELECTROCHEMILUMINESCENCE IMMUNOASSAY, COMPETITIVE PRINCIPLE

T4	8.24	Non-Pregnant Women 5.10 - 14.10 Pregnant Women 1st Trimester: 7.33 - 14.80 2nd Trimester: 7.93 - 16.10 3rd Trimester: 6.95 - 15.70	µg/dL

METHOD : ELECTROCHEMILUMINESCENCE IMMUNOASSAY, COMPETITIVE PRINCIPLE

TSH (ULTRASENSITIVE)	1.820	Non Pregnant Women 0.27 - 4.20 Pregnant Women (As per American Thyroid Association) 1st Trimester 0.100 - 2.500 2nd Trimester 0.200 - 3.000 3rd Trimester 0.300 - 3.000	µIU/mL

METHOD : ELECTROCHEMILUMINESCENCE,SANDWICH IMMUNOASSAY

Interpretation(s)

****End Of Report****
Please visit www.agilusdiagnostics.com for related Test Information for this accession

Dr. Akshay Dhotre, MD
(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

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Patient Ref. No. 22000000889173

PERFORMED AT :
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Navi Mumbai, 400703
Maharashtra, India
Tel : 022-39199222,022-49723322,
CIN - U74899PB1995PLC045956
Email : -

Diagnostics Report

Fortis

MC-5837

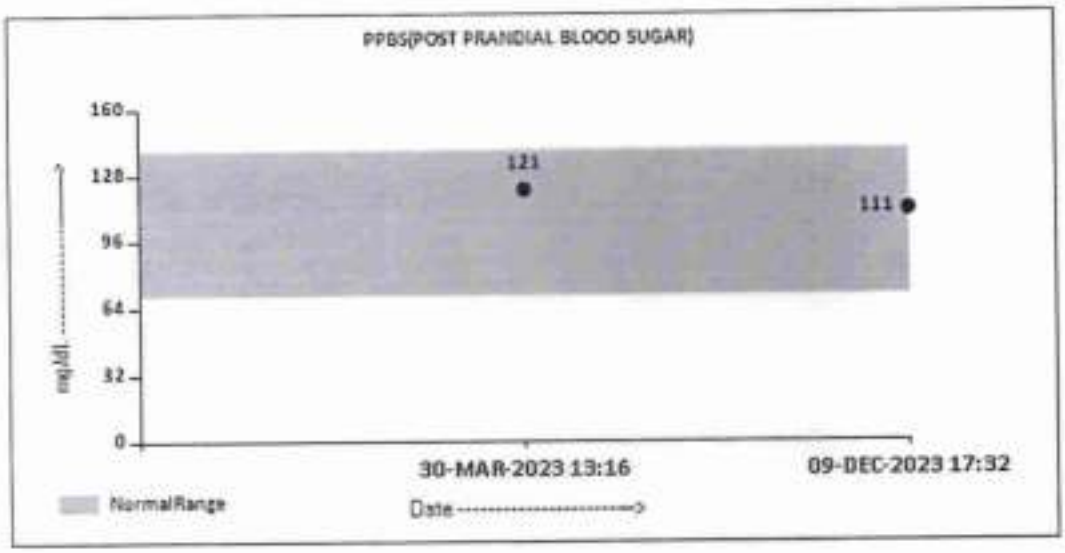
agilus diagnostics

PATIENT NAME : MRS.CHANCHALA SINHA	**REF. DOCTOR :**	
CODE/NAME & ADDRESS :C000045507 FORTIS VASHI-CHC -SPLZD FORTIS HOSPITAL # VASHI, MUMBAI 440001	ACCESSION NO : **0022WL001532** PATIENT ID : FH.12381878 CLIENT PATIENT ID: UID:12381878 ABHA NO :	AGE/SEX :54 Years Female DRAWN :09/12/2023 13:53:00 RECEIVED : 09/12/2023 13:53:54 REPORTED :09/12/2023 17:59:46

CLINICAL INFORMATION :

UID:12381878 REQNO-1635545
CORP-OPD
BILLNO-150123OPCR069341
BILLNO-150123OPCR069341

Test Report Status **Final**	Results	Biological Reference Interval	Units
BIOCHEMISTRY			
GLUCOSE, POST-PRANDIAL, PLASMA			
PPBS(POST PRANDIAL BLOOD SUGAR)	111	70 - 140	mg/dL
METHOD : HEXOKINASE			



Interpretation(s)
GLUCOSE, POST-PRANDIAL, PLASMA-High fasting glucose level in comparison to post prandial glucose level may be seen due to effect of Oral Hypoglycaemics & Insulin treatment, Renal Glycosuria, Glycaemic Index & response to food consumed, Alimentary Hypoglycaemia, Increased insulin response & sensitivity etc.Additional test HbA1c

****End Of Report****
Please visit www.agilusdiagnostics.com for related Test Information for this accession

Dr. Akshay Dhotre, MD
(Reg.no. MMC 2019/09/6377)
Consultant Pathologist

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CIN - U74899PB1995PLC045956
Email : -

Patient Ref. No. 2200000889452

12381878 MRS.CHANCHALA SINHA 12/9/2023 2:10:08 PM
54 Years Female

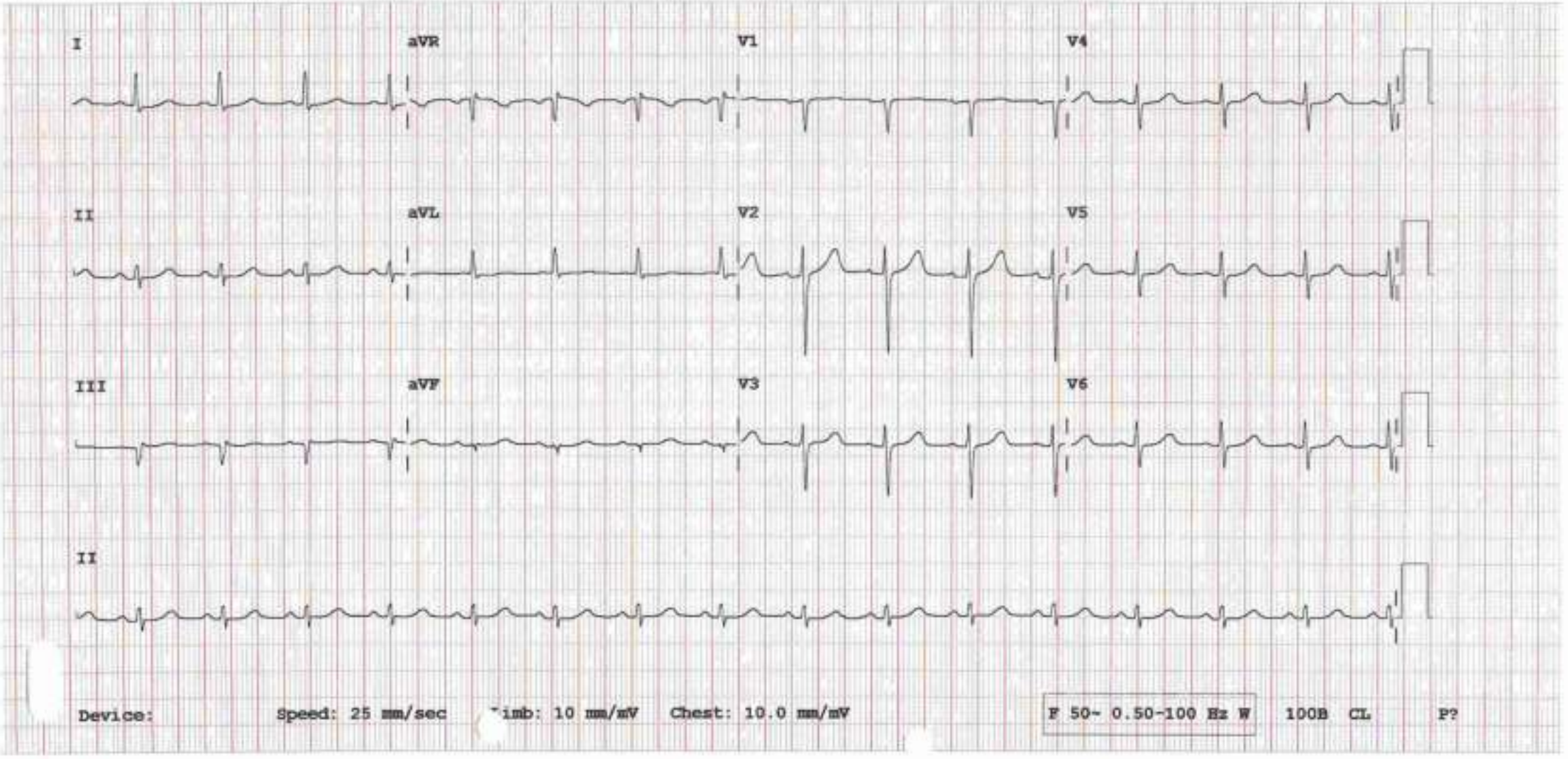
Rate 95 . Sinus rhythm.....normal P axis, V-rate 50- 99

PR 137
QRSD 81
QT 361
QTc 454

--AXIS--
P 31
QRS -7
T 39

- NORMAL ECG -

12 Lead; Standard Placement Unconfirmed Diagnosis



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www.fortishealthcare.com I vashi@fortishealthcare.com
CIN: U85100MH2005PTC 154823
GST IN : 27AABCH5894D1ZG
PAN NO : AABCH5894D

Hiranandani HOSPITAL
A Fortis Network Hospital

Date: 11/Dec/2023

DEPARTMENT OF NIC

Name: Mrs. Chanchala Sinha
Age | Sex: 54 YEAR(S) | Female
Order Station : FO-OPD
Bed Name :

UHID | Episode No : 12381878 | 70566/23/1501
Order No | Order Date: 1501/PN/OP/2312/146480 | 09-Dec-2023
Admitted On | Reporting Date : 11-Dec-2023 12:11:36
Order Doctor Name : Dr.SELF .

ECHOCARDIOGRAPHY TRANSTHORACIC

FINDINGS:

- No left ventricle regional wall motion abnormality at rest.
- Normal left ventricle systolic function. LVEF = 60%.
- Grade I left ventricle diastolic dysfunction. No e/o raised LVEDP.
- No mitral regurgitation.
- No aortic regurgitation. No aortic stenosis.
- No tricuspid regurgitation. No pulmonary hypertension.
- Intact IVS and IAS.
- No left ventricle clot/vegetation/pericardial effusion.
- Normal right atrium and right ventricle dimension and function.
- Normal left atrium and left ventricle dimension.
- IVC measures 10 mm with normal inspiratory collapse

M-MODE MEASUREMENTS:

LA	31	mm
AO Root	21	mm
AO CUSP SEP	18	mm
LVID (s)	22	mm
LVID (d)	44	mm
IVS (d)	10	mm
LVPW (d)	11	mm
RVID (d)	21	mm
RA	29	mm
LVEF	60	%

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GST IN : 27AA8CH5894D1ZG
PAN NO : AABCH5894D

Hiranandani HOSPITAL (A Fortis Network Hospital)

DEPARTMENT OF NIC

Date: 11/Dec/2023

Name: Mrs. Chanchala Sinha
Age | Sex: 54 YEAR(S) | Female
Order Station : FO-OPD
Bed Name :

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Admitted On | Reporting Date : 11-Dec-2023 12:11:36
Order Doctor Name : Dr.SELF .

DOPPLER STUDY:

E WAVE VELOCITY: 0.9 m/sec.
A WAVE VELOCITY: 1.1 m/sec
E/A RATIO: 0.8

	PEAK (mmHg)	MEAN (mmHg)	V max (m/sec)	GRADE OF REGURGITATION
MITRAL VALVE	N			Nil
AORTIC VALVE	08			Nil
TRICUSPID VALVE	N			Nil
PULMONARY VALVE	04			Nil

Final Impression :

- No RWMA.
- Grade I LV diastolic dysfunction.
- Normal LV and RV systolic function.

DR. PRASHANT PAWAR
DNB(MED), DNB (CARD)

DR.AMIT SINGH,
MD(MED),DM(CARD)

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GST IN : 27AABCH5894D1ZG
PAN NO : AABCH5894D

Hiranandani HOSPITAL
(A Fortis Network Hospital)

DEPARTMENT OF RADIOLOGY

Date: 09/Dec/2023

Name: Mrs. Chanchala Sinha
Age | Sex: 54 YEAR(S) | Female
Order Station : FO-OPD
Bed Name :

UHID | Episode No : 12381878 | 70566/23/1501
Order No | Order Date: 1501/PN/OP/2312/146480 | 09-Dec-2023
Admitted On | Reporting Date : 09-Dec-2023 15:39:52
Order Doctor Name : Dr.SELF .

X-RAY-CHEST- PA

Findings:

Both lung fields are clear.

The cardiac shadow appears within normal limits.

Trachea and major bronchi appears normal.

Both costophrenic angles are well maintained.

Bony thorax is unremarkable.

DR. YOGINI SHAH
DMRD., DNB. (Radiologist)

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Hiranandani HOSPITAL (A Fortis Network Hospital)

Patient Name	:	Chanchala Sinha	Patient ID	:	12381878
Sex / Age	:	F / 54Y 1M 28D	Accession No.	:	PHC.7079793
Modality	:	US	Scan DateTime	:	09-12-2023 12:16:36
IPID No	:	70566/23/1501	ReportDatetime	:	09-12-2023 16:25:51

USG – WHOLE ABDOMEN (TAS)

LIVER is normal in size and shows mildly raised echogenicity. No IHBR dilatation. No focal lesion is seen in liver. Portal vein appears normal in caliber.

GALL BLADDER is physiologically distended. Gall bladder reveals normal wall thickness. No evidence of calculi in gall bladder. No evidence of pericholecystic collection.
CBD appears normal in caliber.

SPLEEN is normal in size and echogenicity.

BOTH KIDNEYS are normal in size and shows mildly raised cortical echogenicity with maintained corticomedullary differentiation. No evidence of calculi/hydronephrosis.
Right kidney measures 10.2 x 4.4 cm.
Left kidney measures 10.9 x 4.5 cm.

PANCREAS is normal in size and morphology. No evidence of peripancreatic collection.

URINARY BLADDER is normal in capacity and contour. Bladder wall is normal in thickness. No evidence of intravesical calculi.

UTERUS – post menopausal status.
Endometrium measures 3 mm in thickness.

Both ovaries are not visualised, however adnexae are clear.

No evidence of ascites.

Impression:

- **Grade I fatty infiltration of liver.**
- **Mildly raised cortical echogenicity of both kidneys.** ***Recommended RFT correlation.***

DR. YOGESH PATHADE
M.D. (Radiologist)