



भारत सरकार
GOVERNMENT OF INDIA



सुमन कँवर
Suman Kanwar

जन्म वर्ष / Year of Birth : 1973
महिला / Female

5026 4532 7041



आधार - आम आदमी का अधिकार

भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

पता : W/O पृथ्वी सिंह, राजस्थान
हाऊसिंग बोर्ड शिवशिंह पुरा, नवलगढ़
रोड, सीकर, राजस्थान,
332001

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Dr. U. C. GUPTA
MBBS, MD (Physician)
RMC No. 291

सुमन कँवर



P3 HEALTH SOLUTIONS LLP

(ASSOCIATES OF MAXCARE DIAGNOSTICS)

- B-14, Vidhyadhar Enclave - II, Near Axis Bank
Central Spine, Vidhyadhar Nagar, Jaipur - 302023
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General Physical Examination

Date of Examination: 13/05/2023

Name: SUMAN KANWAR Age: 49 DOB: 19/12/1973 Sex: female

Referred By: BANK OF BARODA

Photo ID: AADHAR ID #: 7041

Ht: 153 (cm) Wt: 65 (Kg)

Chest (Expiration): 104 (cm) Abdomen Circumference: 97 (cm)

Blood Pressure: 125/85 mm Hg PR: 79 / min RR: 18 / min Temp: Afebrile

BMI 27

Eye Examination: RE - GIG, NIC, NCB
LE - GIG, NIC, NCB

Other: NO

On examination he/she appears physically and mentally fit: Yes / No

Signature Of Examinee : [Signature] Name of Examinee: SUMAN KANWAR

Signature Medical Examiner : [Signature] Name Medical Examiner U.C. GUPTA

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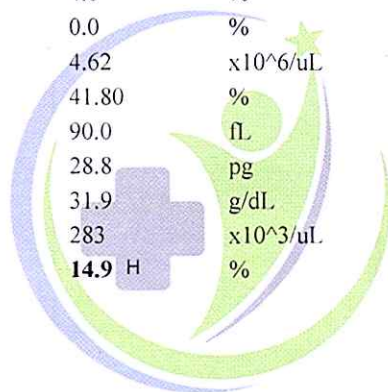


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|----------------------------------|--------------------------------|--------------------|----------|
| NAME :- Mrs. SUMAN KANWAR | Patient ID :-1223287 | Date :- 13/05/2023 | 09:12:15 |
| Age :- 49 Yrs 5 Mon 1 Days | Ref. By Doctor:-BANK OF BARODA | | |
| Sex :- Female | Lab/Hosp :- | | |
| | Company :- | Mr.MEDIWHEEL | |

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HAEMATOLOGY

| Test Name | Value | Unit | Biological Ref Interval |
|---|---------------|------------------|-------------------------|
| FULL BODY HEALTH CHECKUP ABOVE 40FEMALE | | | |
| HAEMOGARAM | | | |
| HAEMOGLOBIN (Hb) | 13.3 | g/dL | 12.0 - 15.0 |
| TOTAL LEUCOCYTE COUNT | 5.20 | /cumm | 4.00 - 10.00 |
| DIFFERENTIAL LEUCOCYTE COUNT | | | |
| NEUTROPHIL | 52.0 | % | 40.0 - 80.0 |
| LYMPHOCYTE | 40.0 | % | 20.0 - 40.0 |
| EOSINOPHIL | 4.0 | % | 1.0 - 6.0 |
| MONOCYTE | 4.0 | % | 2.0 - 10.0 |
| BASOPHIL | 0.0 | % | 0.0 - 2.0 |
| TOTAL RED BLOOD CELL COUNT (RBC) | 4.62 | $\times 10^6/uL$ | 3.80 - 4.80 |
| HEMATOCRIT (HCT) | 41.80 | % | 36.00 - 46.00 |
| MEAN CORP VOLUME (MCV) | 90.0 | fL | 83.0 - 101.0 |
| MEAN CORP HB (MCH) | 28.8 | pg | 27.0 - 32.0 |
| MEAN CORP HB CONC (MCHC) | 31.9 | g/dL | 31.5 - 34.5 |
| PLATELET COUNT | 283 | $\times 10^3/uL$ | 150 - 410 |
| RDW-CV | 14.9 H | % | 11.6 - 14.0 |



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HAEMATOLOGY

Erythrocyte Sedimentation Rate (ESR)

Method - Westergreen

08

mm in 1st hr

00 - 20

The erythrocyte sedimentation rate (ESR or sed rate) is a relatively simple, inexpensive, non-specific test that has been used for many years to help detect inflammation associated with conditions such as infections, cancers, and autoimmune diseases. ESR is said to be a non-specific test because an elevated result often indicates the presence of inflammation but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other tests, such as C-reactive protein. ESR is used to help diagnose certain specific inflammatory diseases, including temporal arteritis, systemic vasculitis and polymyalgia rheumatica. (For more on these, read the article on Vasculitis.) A significantly elevated ESR is one of the main test results used to support the diagnosis. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as



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(CBC): Methodology: TLC,DLC Fluorescent Flow cytometry, HB SLS method,TRBC,PCV,PLT Hydrodynamically focused Impedance. and MCH,MCV,MCHC,MENTZER INDEX are calculated. InstrumentName: Sysmex 6 part fully automatic analyzer XN-L,Japan



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BIOCHEMISTRY

| Test Name | Value | Unit | Biological Ref Interval |
|-----------|-------|------|-------------------------|
|-----------|-------|------|-------------------------|

FASTING BLOOD SUGAR (Plasma)
Method - GOD POD

109.0

mg/dl

70.0 - 115.0

Impaired glucose tolerance (IGT)

111 - 125 mg/dL

Diabetes Mellitus (DM)

> 126 mg/dL

Instrument Name: HORIBA CA60 Interpretation: Elevated glucose levels (hyperglycemia) may occur with diabetes, pancreatic neoplasm, hyperthyroidism and adrenal cortical hyper-function as well as other disorders. Decreased glucose levels (hypoglycemia) may result from excessive insulin therapy or various liver diseases .

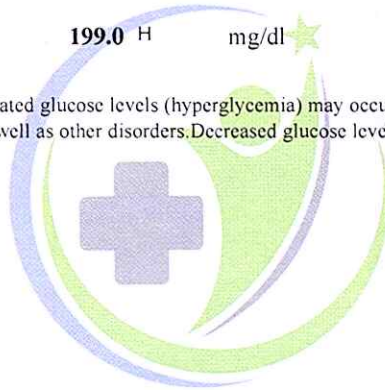
BLOOD SUGAR PP (Plasma)
Method: - GOD PAP

199.0 H

mg/dl

70.0 - 140.0

Instrument Name: HORIBA Interpretation: Elevated glucose levels (hyperglycemia) may occur with diabetes, pancreatic neoplasm, hyperthyroidism and adrenal cortical hyper-function as well as other disorders. Decreased glucose levels (hypoglycemia) may result from excessive insulin therapy or various liver diseases .



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HAEMATOLOGY

| Test Name | Value | Unit | Biological Ref Interval |
|--|-------|-------|--|
| GLYCOSYLATED HEMOGLOBIN (HbA1C) Method:- CAPILLARY with EDTA | 5.9 | mg% | Non-Diabetic < 6.0 Good Control 6.0-7.0 Weak Control 7.0-8.0 Poor control > 8.0 |
| MEAN PLASMA GLUCOSE Method:- Calculated Parameter | 123 | mg/dL | 68 - 125 |

INTERPRETATION

AS PER AMERICAN DIABETES ASSOCIATION (ADA)

Reference Group HbA1c in %

Non diabetic adults >=18 years < 5.7

At risk (Prediabetes) 5.7 - 6.4

Diagnosing Diabetes >= 6.5

CLINICAL NOTES

In vitro quantitative determination of HbA1c in whole blood is utilized in long term monitoring of glycemia. The HbA1c level correlates with the mean glucose concentration prevailing in the course of the patient's recent history (approx - 6-8 weeks) and therefore provides much more reliable information for glycemia monitoring than do determinations of blood glucose or urinary glucose. It is recommended that the determination of HbA1c be performed at intervals of 4-6 weeks during Diabetes Mellitus therapy. Results of HbA1c should be assessed in conjunction with the patient's medical history, clinical examinations and other findings. Some of the factors that influence HbA1c and its measurement [Adapted from Gallagher et al.]

1. Erythropoiesis

- Increased HbA1c: iron, vitamin B12 deficiency, decreased erythropoiesis.
- Decreased HbA1c: administration of erythropoietin, iron, vitamin B12, reticulocytosis, chronic liver disease.

2. Altered Haemoglobin-Genetic or chemical alterations in hemoglobin: hemoglobinopathies, HbF, methemoglobin, may increase or decrease HbA1c.

3. Glycation

- Increased HbA1c: alcoholism, chronic renal failure, decreased intraerythrocytic pH.
- Decreased HbA1c: certain hemoglobinopathies, increased intra-erythrocyte pH

4. Erythrocyte destruction

- Increased HbA1c: increased erythrocyte life span: Splenectomy.
- Decreased A1c: decreased RBC life span: hemoglobinopathies, splenomegaly, rheumatoid arthritis or drugs such as antiretrovirals, ribavirin & dapsone.

5. Others

- Increased HbA1c: hyperbilirubinemia, carbamylated hemoglobin, alcoholism, large doses of aspirin, chronic opiate use, chronic renal failure
- Decreased HbA1c: hypertriglyceridemia, reticulocytosis, chronic liver disease, aspirin, vitamin C and E, splenomegaly, rheumatoid arthritis or drugs

Note:

- Shortened RBC life span - HbA1c test will not be accurate when a person has a condition that affects the average lifespan of red blood cells (RBCs), such as hemolytic anemia or blood loss. When the lifespan of RBCs in circulation is shortened, the A1c result is falsely low and is an unreliable measurement of a person's average glucose over time.
- Abnormal forms of hemoglobin - The presence of some hemoglobin variants, such as hemoglobin S in sickle cell anemia, may affect certain methods for measuring A1c. In these cases, fructosamine can be used to monitor glucose control.

Advised:

- To follow patient for glycemic control test like fructosamine or glycated albumin may be performed instead.
 - Hemoglobin HPLC screen to analyze abnormal hemoglobin variant.
- estimated Average Glucose (eAG) : based on value calculated according to National Glycohemoglobin Standardization Program (NGSP) criteria.

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HAEMATOLOGY

BLOOD GROUP ABO
Method:- Haemagglutination reaction

"O" POSITIVE



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BIOCHEMISTRY

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LIPID PROFILE

TOTAL CHOLESTEROL
Method - CHOD-PAP methodology

195.00 mg/dl

Desirable <200
Borderline high 200-239
High > 240

InstrumentName:MISPA PLUS **Interpretation:** Cholesterol measurements are used in the diagnosis and treatments of lipid lipoprotein metabolism disorders.

TRIGLYCERIDES
Method:- GPO-PAP

132.00 mg/dl

Normal <150
Borderline high 150-199
High 200-499
Very high >500

InstrumentName:Randox Rx Imola **Interpretation:** Triglyceride measurements are used in the diagnosis and treatment of diseases involving lipid metabolism and various endocrine disorders e.g diabetes mellitus, nephrosis and liver obstruction.

DIRECT HDL CHOLESTEROL
Method - Direct clearance Method

48.75 mg/dl

MALE- 30-70
FEMALE - 30-85

Instrument Name:Rx Daytona plus **Interpretation:** An inverse relationship between HDL-cholesterol (HDL-C) levels in serum and the incidence/prevalence of coronary heart disease (CHD) has been demonstrated in a number of epidemiological studies. Accurate measurement of HDL-C is of vital importance when assessing patient risk from CHD. Direct measurement gives improved accuracy and reproducibility when compared to precipitation methods.

LDL CHOLESTEROL
Method - Calculated Method

124.25 mg/dl

Optimal <100
Near Optimal/above optimal 100-129
Borderline High 130-159
High 160-189
Very High > 190

VLDL CHOLESTEROL
Method - Calculated

26.40 mg/dl

0.00 - 80.00

T.CHOLESTEROL/HDL CHOLESTEROL RATIO
Method - Calculated

4.00

0.00 - 4.90

LDL / HDL CHOLESTEROL RATIO
Method - Calculated

2.55

0.00 - 3.50

TOTAL LIPID
Method - CALCULATED

592.09 mg/dl

400.00 - 1000.00

- Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.
- As per NCEP guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.
- Low HDL levels are associated with Coronary Heart Disease due to insufficient HDL being available to participate in reverse cholesterol transport.

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BIOCHEMISTRY

transport, the process by which cholesterol is eliminated from peripheral tissues.

Comments: 1- ATP III suggested the addition of Non HDL Cholesterol (Total Cholesterol – HDL Cholesterol) as an indicator of all atherogenic lipoproteins (mainly LDL & VLDL). The Non HDL Cholesterol is used as a secondary target of therapy in persons with triglycerides ≥ 200 mg/dL. The goal for Non HDL Cholesterol in those with increased triglyceride is 30 mg/dL above that set for LDL Cholesterol.

2 -For calculation of CHD risk, history of smoking, any medication for hypertension & current B.P. levels are required.



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BIOCHEMISTRY

LIVER PROFILE WITH GGT

| | | | |
|--|--------|-------|--|
| SERUM BILIRUBIN (TOTAL) Method:- DMSO/Diazo | 0.65 | mg/dL | Infants : 0.2-8.0 mg/dL Adult - Up to - 1.2 mg/dL |
| SERUM BILIRUBIN (DIRECT) Method:- DMSO/Diazo | 0.40 | mg/dL | Up to 0.40 mg/dL |
| SERUM BILIRUBIN (INDIRECT) Method:- Calculated | 0.25 | mg/dl | 0.30-0.70 |
| SGOT Method:- IFCC | 32.8 | U/L | 0.0 - 40.0 |
| SGPT Method:- IFCC | 30.9 | U/L | 0.0 - 35.0 |
| SERUM ALKALINE PHOSPHATASE Method:- IFCC | 111.00 | IU/L | 53.00 - 141.00 |
| SERUM GAMMA GT Method:- Szasz methodology Instrument Name Randox Rx Imola Interpretation Elevations in GGT levels are seen earlier and more pronounced than those with other liver enzymes in cases of obstructive jaundice and metastatic neoplasms. It may reach 5 to 30 times normal levels in intra- or post-hepatic biliary obstruction. Only moderate elevations in the enzyme level (2 to 5 times normal) are observed with infectious hepatitis | 15.80 | U/L | 5.00 - 32.00 |
| SERUM TOTAL PROTEIN Method:- Direct Biuret Reagent | 7.36 | g/dl | 6.00 - 8.40 |
| SERUM ALBUMIN Method:- Bromocresol Green | 4.20 | g/dl | 3.50 - 5.50 |
| SERUM GLOBULIN Method:- CALCULATION | 3.16 | gm/dl | 2.20 - 3.50 |
| A/G RATIO | 1.33 | | 1.30 - 2.50 |

Interpretation : Measurements obtained by this method are used in the diagnosis and treatment of a variety of diseases involving the liver, kidney and bone marrow as well as other metabolic or nutritional disorders.

Note :- These are group of tests that can be used to detect the presence of liver disease, distinguish among different types of liver disorders, gauge the extent of known liver damage, and monitor the response to treatment. Most liver diseases cause only mild symptoms initially, but these diseases must be detected early. Some tests are associated with functionality (e.g., albumin), some with cellular integrity (e.g., transaminase), and some with conditions linked to the biliary tract (gamma-glutamyl transferase and alkaline phosphatase). Conditions with elevated levels of ALT and AST include hepatitis A,B ,C ,paracetamol toxicity etc. Several biochemical tests are useful in the evaluation and management of patients with hepatic dysfunction. Some or all of these measurements are also carried out (usually about twice a year for routine cases) on those individuals taking certain medications, such as anticonvulsants, to ensure that the medications are not adversely impacting the person's liver.

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BIOCHEMISTRY

RFT / KFT WITH ELECTROLYTES

SERUM UREA 23.80 mg/dl 10.00 - 50.00
Method:- Urease/GLDH

InstrumentName: HORIBA CA 60 **Interpretation :** Urea measurements are used in the diagnosis and treatment of certain renal and metabolic diseases.

SERUM CREATININE 0.88 mg/dl Males : 0.6-1.50 mg/dl
Females : 0.6 -1.40 mg/dl
Method:- Jaffe's Method

Interpretation :
Creatinine is measured primarily to assess kidney function and has certain advantages over the measurement of urea. The plasma level of creatinine is relatively independent of protein ingestion, water intake, rate of urine production and exercise. Depressed levels of plasma creatinine are rare and not clinically significant.

SERUM URIC ACID 4.34 mg/dl 2.40 - 7.00

InstrumentName: HORIBA YUMIZEN CA60 Daytona plus **Interpretation: Elevated Urate:** High purine diet, Alcohol, Renal insufficiency, Drugs, Polycythaemia vera, Malignancies, Hypothyroidism, Rare enzyme defects, Downs syndrome, Metabolic syndrome, Pregnancy, Gout.

SODIUM 141.0 mmol/L 135.0 - 150.0
Method:- ISF

Interpretation: Decreased sodium - Hyponatraemia Causes include: fluid or electrolyte loss, Drugs, Oedematous states, Legionnaire's disease and other chest infections, pseudonatremia, Hyperlipidaemias and paraproteinaemias, endocrine diseases, SIADH.

POTASSIUM 4.34 mmol/L 3.50 - 5.50
Method:- ISF

Interpretation: A. Elevated potassium (hyperkalaemia)• Artefactual, Physiologic elevation, Drugs, Pathological states, Renal failure Adrenocortical insufficiency, metabolic acidoses, very high platelet or white cell counts B. Decreased potassium (hypokalaemia) Drugs, Liqueuric, Diarrhoea and vomiting, Metabolic alkalosis, Corticosteroid excess, Oedematous state, Anorexia nervosa/bulimia

CHLORIDE 97.6 mmol/L 94.0 - 110.0
Method:- ISF

Interpretation: Used for Electrolyte monitoring.

SERUM CALCIUM 10.15 mg/dL 8.80 - 10.20
Method:- Arsenazo III Method

InstrumentName: MISPA PLUS **Interpretation:** Serum calcium levels are believed to be controlled by parathyroid hormone and vitamin D. Increases in serum PTH or vitamin D are usually associated with hypercalcemia. Hypocalcemia may be observed in hypoparathyroidism, nephrosis and pancreatitis.

SERUM TOTAL PROTEIN 7.36 g/dl 6.00 - 8.40
Method:- Biuret Reagent

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BIOCHEMISTRY

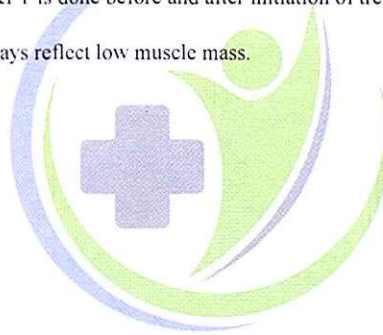
| | | | |
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| A/G RATIO | 1.33 | | 1.30 - 2.50 |

Interpretation : Measurements obtained by this method are used in the diagnosis and treatment of a variety of diseases involving the liver, kidney and bone marrow as well as other metabolic or nutritional disorders.

INTERPRETATION

Kidney function tests are group of tests that can be used to evaluate how well the kidneys are functioning. Creatinine is a waste product that comes from protein in the diet and also comes from the normal wear and tear of muscles of the body. In blood, it is a marker of GFR .in urine, it can remove the need for 24-hourcollections for many analytes or be used as a quality assurance tool to assess the accuracy of a 24-hour collection Higher levels may be a sign that the kidneys are not working properly. As kidney disease progresses, the level of creatinine and urea in the bloodincreases. Certain drugs are nephrotoxic hence KFT is done before and after initiation of treatment with these drugs.

Low serum creatinine values are rare; they almost always reflect low muscle mass.



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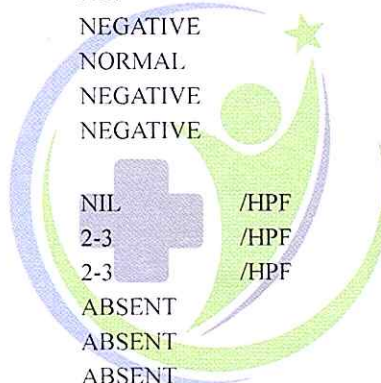


| | | | |
|----------------------------------|--------------------------------|--------------------|----------|
| NAME :- Mrs. SUMAN KANWAR | Patient ID :-1223287 | Date :- 13/05/2023 | 09:12:15 |
| Age :- 49 Yrs 5 Mon 1 Days | Ref. By Doctor:-BANK OF BARODA | | |
| Sex :- Female | Lab/Hosp :- | | |
| | Company :- | Mr.MEDIWHEEL | |

Final Authentication : 13/05/2023 17:27:48

CLINICAL PATHOLOGY

| Test Name | Value | Unit | Biological Ref Interval |
|--------------------------------------|-------------|------|-------------------------|
| Urine Routine | | | |
| <u>PHYSICAL EXAMINATION</u> | | | |
| COLOUR | PALE YELLOW | | PALE YELLOW |
| APPEARANCE | Clear | | Clear |
| <u>CHEMICAL EXAMINATION</u> | | | |
| REACTION(PH) | 5.0 | | 5.0 - 7.5 |
| SPECIFIC GRAVITY | 1.020 | | |
| PROTEIN | NIL | | NIL |
| SUGAR | NIL | | NIL |
| BILIRUBIN | NEGATIVE | | NEGATIVE |
| UROBILINOGEN | NORMAL | | NORMAL |
| KETONES | NEGATIVE | | NEGATIVE |
| NITRITE | NEGATIVE | | NEGATIVE |
| <u>MICROSCOPY EXAMINATION</u> | | | |
| RBC/HPF | NIL | /HPF | NIL |
| WBC/HPF | 2-3 | /HPF | 2-3 |
| EPITHELIAL CELLS | 2-3 | /HPF | 2-3 |
| CRYSTALS/HPF | ABSENT | | ABSENT |
| CAST/HPF | ABSENT | | ABSENT |
| AMORPHOUS SEDIMENT | ABSENT | | ABSENT |
| BACTERIAL FLORA | ABSENT | | ABSENT |
| YEAST CELL | ABSENT | | ABSENT |
| OTHER | ABSENT | | ABSENT |



RAVIMEENA

Technologist

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DR.TANU RUNGTA

MD (Pathology)
RMC No. 17226



P3 HEALTH SOLUTIONS LLP

(ASSOCIATES OF MAXCARE DIAGNOSTICS)

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CLINICAL PATHOLOGY

URINE SUGAR (FASTING)
Collected Sample Received

Nil

Nil



RAVIMEENA

Technologist

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DR. TANU RUNGTA

MD (Pathology)

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TOTAL THYROID PROFILE

IMMUNOASSAY

| Test Name | Value | Unit | Biological Ref Interval |
|--|-------|-------|-------------------------|
| THYROID-TRIIODOTHYRONINE T3 Method:- ECLIA | 1.10 | ng/mL | 0.70 - 2.04 |

NOTE-TSH levels are subject to circadian variation, reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result. Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions, simultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

INTERPRETATION-Ultra Sensitive 4th generation assay 1.Primary hyperthyroidism is accompanied by ↑serum T3 & T4 values along with ↑ TSH level. 2.Low TSH, high FT4 and TSH receptor antibody (TRAb) -ve seen in patients with Graves disease 3.Low TSH, high FT4 and TSH receptor antibody (TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter 4.High TSH, Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimoto's thyroiditis 5.High TSH, Low FT4 and Thyroid microsomal antibody normal seen in patients with Iodine deficiency/Congenital T4 synthesis deficiency 6.Low TSH, Low FT4 and TRH stimulation test -Delayed response seen in patients with Tertiary hypothyroidism 7.Primary hypothyroidism is accompanied by ↓ serum T3 and T4 values & ↑serum TSH levels 8.Normal T4 levels accompanied by ↑ T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis 9.Normal or ↑ T3 & ↑ T4 along with ↑ TSH indicate mild / Subclinical Hyperthyroidism . 11.Normal T3 & ↑ T4 along with ↑ TSH is seen in Hypothyroidism . 12.Normal T3 & T4 levels with ↑ TSH indicate Mild / Subclinical Hypo

DURING PREGNANCY - REFERENCE RANGE for TSH IN uIU/mL (As per American Thyroid Association) 1st Trimester : 0.10-2.50 uIU/mL 2nd Trimester : 0.20-3.00 uIU/mL 3rd Trimester : 0.30-3.00 uIU/mL The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy.

REMARK-Assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with corticosteroid therapy may result in lower TSH levels while thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill patients should be repeated after the critical nature of the condition is resolved. TSH is an important marker for the diagnosis of thyroid dysfunction. Recent studies have shown that the TSH distribution progressively shifts to a higher concentration with age, and it is debatable whether this is due to a real change with age or an increasing proportion of unrecognized thyroid disease in the elderly. ***

| | | | |
|---|------|--------|--------------|
| THYROID-THYROXINE (T4) Method:- ECLIA | 5.10 | μIU/mL | 5.10 - 14.10 |
|---|------|--------|--------------|

NOTE-TSH levels are subject to circadian variation, reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result. Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions, simultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

INTERPRETATION-Ultra Sensitive 4th generation assay 1.Pnmary hyperthyroidism is accompanied by ↑serum T3 & T4 values along with ↑ TSH level. 2.Low TSH, high FT4 and TSH receptor antibody (TRAb) -ve seen in patients with Graves disease 3.Low TSH, high FT4 and TSH receptor antibody (TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter 4.High TSH, Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimoto's thyroiditis 5.High TSH, Low FT4 and Thyroid microsomal antibody normal seen in patients with Iodine deficiency/Congenital T4 synthesis deficiency 6.Low TSH, Low FT4 and TRH stimulation test -Delayed response seen in patients with Tertiary hypothyroidism 7.Primary hypothyroidism is accompanied by ↓ serum T3 and T4 values & ↑serum TSH levels 8.Normal T4 levels accompanied by ↑ T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis 9.Normal or ↑ T3 & ↑ T4 along with ↑ TSH indicate mild / Subclinical Hyperthyroidism . 11.Normal T3 & ↑ T4 along with ↑ TSH is seen in Hypothyroidism . 12.Normal T3 & T4 levels with ↑ TSH indicate Mild / Subclinical Hypo

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| | | | |
|------------------------------|-------|--------|---------------|
| TSH Method:- ECLIA | 2.301 | μIU/mL | 0.350 - 5.500 |
|------------------------------|-------|--------|---------------|

NOTE-TSH levels are subject to circadian variation, reaching peak levels between 2-4 AM and min between 6-10 PM. The variation is the order of 50% hence time of the day has influence on the measures serum TSH concentration. Dose and time of drug intake also influence the test result. Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions, simultaneous measurement of TSH with free T4 is useful in evaluating differential diagnosis

INTERPRETATION-Ultra Sensitive 4th generation assay 1.Primary hypothyroidism is accompanied by ↓serum T3 & T4 values along with ↑ TSH level.

Technologist
Page No: 15 of 16

Tanu

DR.TANU RUNGTA
MD (Pathology)
RMC No. 17226



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IMMUNOASSAY

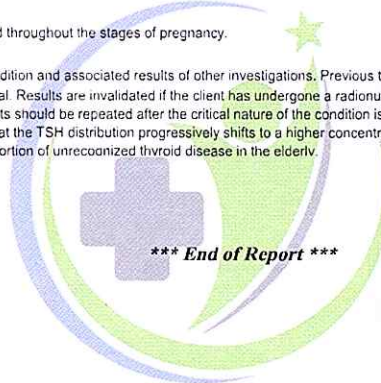
- 2.Low TSH,high FT4 and TSH receptor antibody(TRAb) +ve seen in patients with Graves disease
- 3.Low TSH,high FT4 and TSH receptor antibody(TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter
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- 5.HighTSH,Low FT4 and Thyroid microsomal antibody normal seen in patients with Iodine deficiency/Congenital T4 synthesis deficiency
- 6.Low TSH,Low FT4 and TRH stimulation test -Delayed response seen in patients with Tertiary hypothyroidism
- 7.Primary hypothyroidism is accompanied by ↓ serum T3 and T4 values & ↑serum TSH levels
- 8.Normal T4 levels accompanied by ↑ T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis
- 9.Normal or ↓ T3 & ↑T4 levels indicate T4 Thyrotoxicosis (problem is conversion of T4 to T3)
- 10.Normal T3 & T4 along with ↓ TSH indicate mild / Subclinical Hyperthyroidism .
- 11.Normal T3 & ↓ T4 along with ↑ TSH is seen in Hypothyroidism .
- 12.Normal T3 & T4 levels with ↑ TSH indicate Mild / Subclinical Hypothyroidism .
- 13.Slightly ↑ T3 levels may be found in pregnancy and in estrogen therapy while ↓ levels may be encountered in severe illness , malnutrition , renal failure and during therapy with drugs like propranolol.
- 14.Although ↑ TSH levels are nearly always indicative of Primary Hypothyroidism ,rarely they can result from TSH secreting pituitary tumours.

DURING PREGNANCY - REFERENCE RANGE for TSH IN uIU/mL (As per American Thyroid Association)

- 1st Trimester : 0.10-2.50 uIU/mL
- 2nd Trimester : 0.20-3.00 uIU/mL
- 3rd Trimester : 0.30-3.00 uIU/mL

The production, circulation, and disintegration of thyroid hormones are altered throughout the stages of pregnancy.

REMARK-Assay results should be interpreted in context to the clinical condition and associated results of other investigations. Previous treatment with corticosteroid therapy may result in lower TSH levels while thyroid hormone levels are normal. Results are invalidated if the client has undergone a radionuclide scan within 7-14 days before the test. Abnormal thyroid test findings often found in critically ill patients should be repeated after the critical nature of the condition is resolved.TSH is an important marker for the diagnosis of thyroid dysfunction.Recent studies have shown that the TSH distribution progressively shifts to a higher concentration with age ,and it is debatable whether this is due to a real change with age or an increasing proportion of unrecognized thyroid disease in the elderly.



RAVIMEENA

Technologist
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DR.TANU RUNGTA
MD (Pathology)
RMC No. 17226



| | | | |
|--------|-------------------|---------|------------|
| NAME: | MRS. SUMAN KANWAR | AGE/SEX | 49 YRS/F |
| REF.BY | BANK OF BARODA | DATE | 13/05/2023 |

CHEST X RAY (PA VIEW)

Bilateral lung fields appear clear.

Bilateral costo-phrenic angles appear clear.

Cardiothoracic ratio is normal.

Thoracic soft tissue and skeletal system appear unremarkable.

Soft tissue shadows appear normal.

IMPRESSION: No significant abnormality is detected.

DR.SHALINI GOEL
M.B.B.S, D.N.B (Radiodiagnosis)
RMC No.: 21954



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| | |
|-------------------------------|-------------------------|
| MRS. SUMAN KANWAR | Age: 49 Y/F |
| Registration Date: 13/05/2023 | Ref. by: BANK OF BARODA |

ULTRASOUND OF WHOLE ABDOMEN

Liver is of normal size (13.1 cm). **Echotexture is increased obscuring periportal echogenicity.** No focal space occupying lesion is seen within liver parenchyma. Intra hepatic biliary channels are not dilated. Portal vein diameter is normal.

Gall bladder is partially distended. No calculus or mass lesion is seen in gall bladder. Common bile duct is not dilated.

Pancreas is of normal size and contour. Echo-pattern is normal. No focal lesion is seen within pancreas.

Spleen is of normal size and shape (9.7 cm). Echotexture is normal. No focal lesion is seen.

Kidneys are normally sited and are of normal size and shape. Cortico-medullary echoes are normal. Collecting system does not show any dilatation or calculus.

Right kidney is measuring approx. 11.5 x 4.0 cm.

Left kidney is measuring approx. 10.7 x 4.8 cm. **A simple, well-defined and exophytic cortical cyst of size 16 x 18 mm is noted at lower pole region (Bosniak grade 1 cyst).**

Urinary bladder does not show any calculus or mass lesion.

Uterus is postoperative.

No enlarged nodes are visualized. No retro-peritoneal lesion is identified.
No significant free fluid is seen in pouch of Douglas.

IMPRESSION:

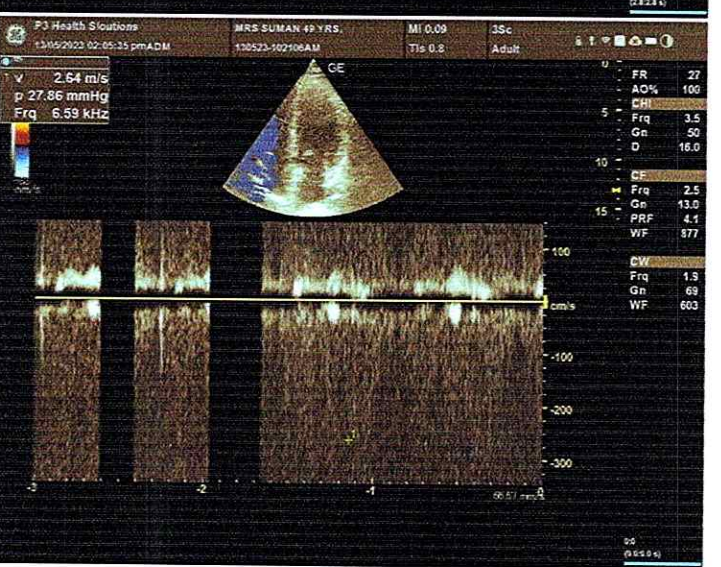
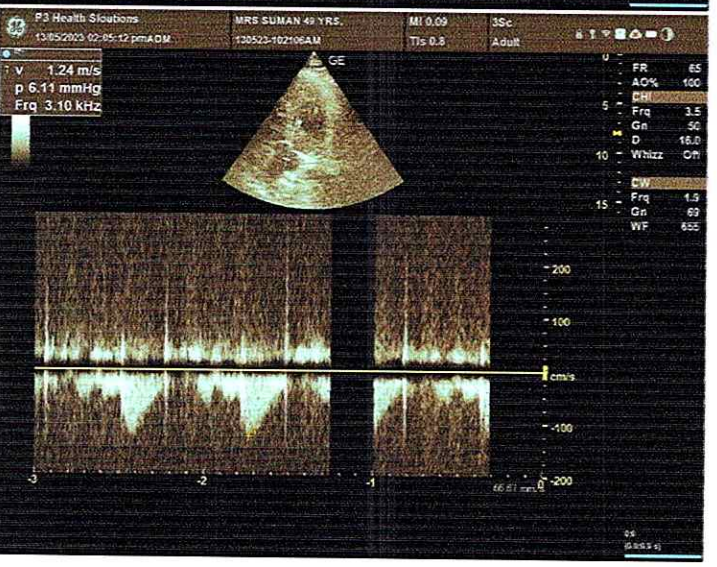
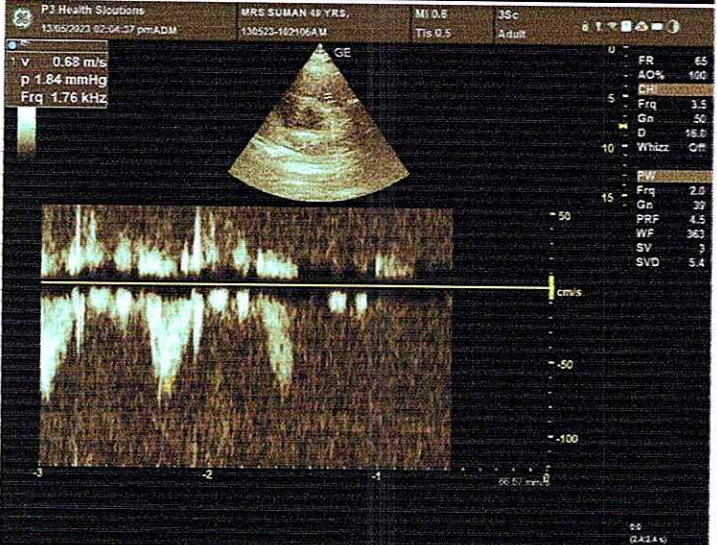
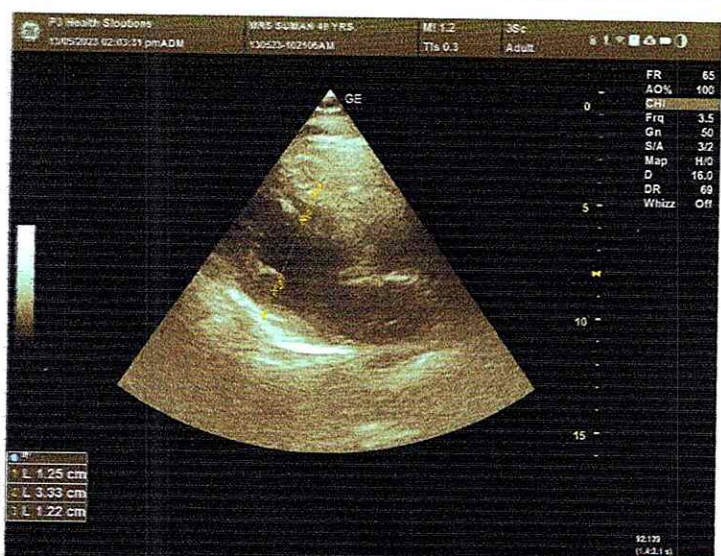
- **Grade 2 fatty liver.**
- **Left renal Bosniak grade 1 cyst as described above.**

DR.SHALINI GOEL

M.B.B.S, D.N.B (Radiodiagnosis)

RMC no.: 21954







| | |
|-------------------------------|-------------------------|
| MRS. SUMAN KANWAR | Age: 49 Y/F |
| Registration Date: 13/05/2023 | Ref. by: BANK OF BARODA |

2D-ECHOCARDIOGRAPHY M.MODE WITH DOPPLER STUDY:
FAIR TRANSTHORACIC ECHOCARDIOGRAPHIC WINDOW MORPHOLOGY:

| | | | |
|--------------|--------|-----------------|--------|
| MITRAL VALVE | NORMAL | TRICUSPID VALVE | NORMAL |
| AORTIC VALVE | NORMAL | PULMONARY VALVE | NORMAL |

M.MODE EXAMINATION:

| | | | | | | | | |
|--------|--------|----|--------|-----|----|--------|-----|----|
| AO | 3.1 | Cm | LA | 2.5 | cm | IVS-D | 1.0 | cm |
| IVS-S | 1.2 | cm | LVID | 4.3 | cm | LVSD | 3.3 | cm |
| LVPW-D | 1.0 | cm | LVPW-S | 1.2 | cm | RV | | cm |
| RVWT | | cm | EDV | | ml | LVVS | | ml |
| LVEF | 55-60% | | RWMA | | | ABSENT | | |

CHAMBERS:

| | | | |
|-------------|--------|--------|--------|
| LA | NORMAL | RA | NORMAL |
| LV | NORMAL | RV | NORMAL |
| PERICARDIUM | | NORMAL | |

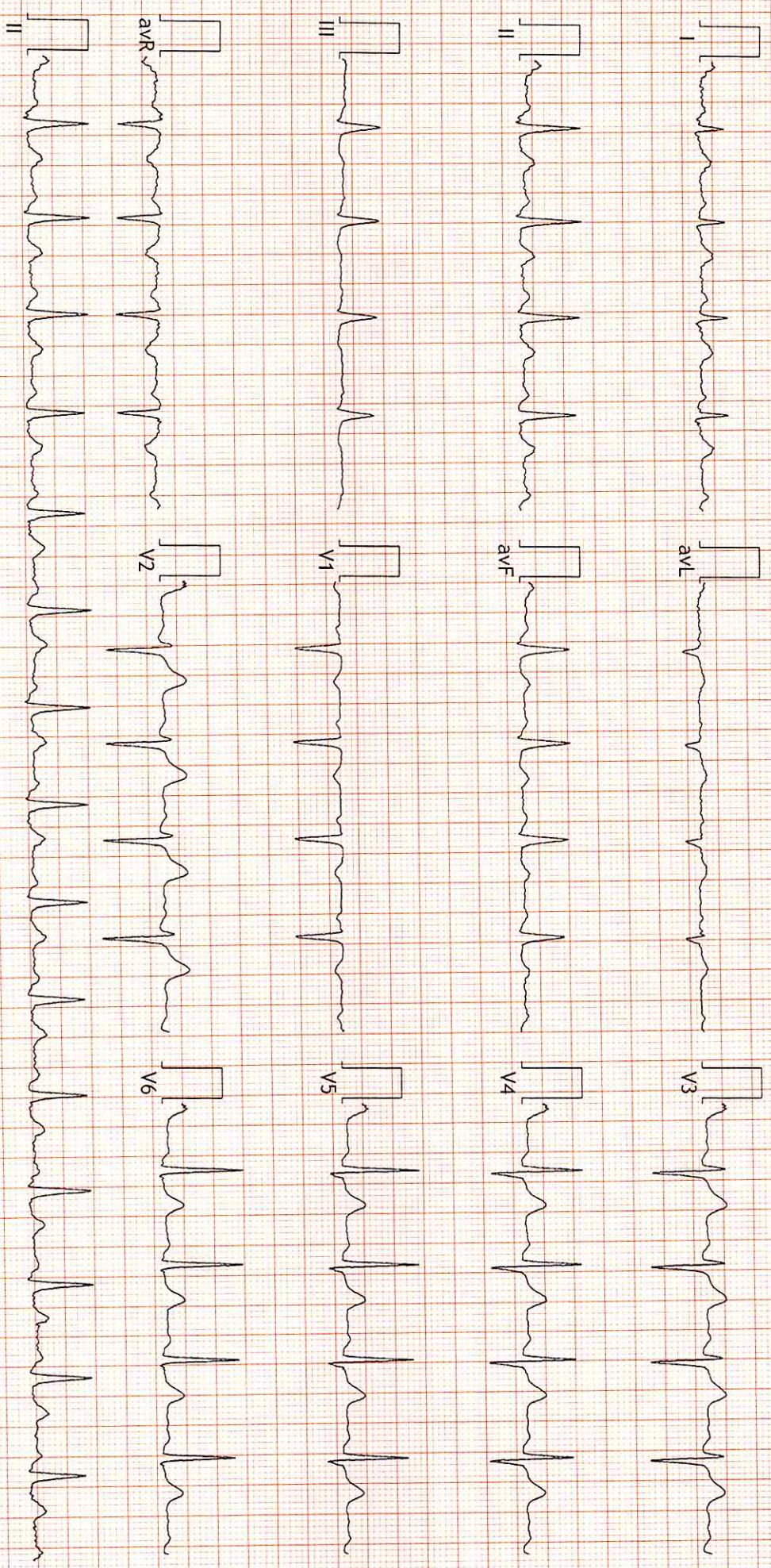
COLOUR DOPPLER:

| | | | | | |
|-------------------------|------|--------|-------------------|--|--------|
| MITRAL VALVE | | | | | |
| E VELOCITY | 0.61 | m/sec | PEAK GRADIENT | | Mm/hg |
| A VELOCITY | 0.94 | m/sec | MEAN GRADIENT | | Mm/hg |
| MVA BY PHT | | Cm2 | MVA BY PLANIMETRY | | Cm2 |
| MITRAL REGURGITATION | | | | | ABSENT |
| AORTIC VALVE | | | | | |
| PEAK VELOCITY | 1.23 | m/sec | PEAK GRADIENT | | mm/hg |
| AR VMAX | | m/sec | MEAN GRADIENT | | mm/hg |
| AORTIC REGURGITATION | | | | | ABSENT |
| TRICUSPID VALVE | | | | | |
| PEAK VELOCITY | | m/sec | PEAK GRADIENT | | mm/hg |
| MEAN VELOCITY | | m/sec | MEAN GRADIENT | | mm/hg |
| VMax VELOCITY | | | | | |
| TRICUSPID REGURGITATION | | | | | MILD |
| PULMONARY VALVE | | | | | |
| PEAK VELOCITY | 0.68 | M/sec. | PEAK GRADIENT | | Mm/hg |
| MEAN VELOCITY | | | MEAN GRADIENT | | Mm/hg |
| PULMONARY REGURGITATION | | | | | ABSENT |

Impression—

- NORMAL LV SIZE & CONTRACTILITY.
- NO RWMA, LVEF 55-60%.
- MILD TR/ PAH (RVSP 27 MMHG+ RAP).
- GRADE 1 DIASTOLIC DYSFUNCTION.
- NO CLOT, NO VEGETATION, NO PERICARDIAL EFFUSION.


(Cardiologist)



FINDINGS: Normal Sinus Rhythm
Vent Rate : 93 bpm; PR Interval : 142 ms; QRS Duration: 98 ms; QT/QTc Int : 343/428 ms
P-QRS-T axis: 44• 71• 25• (Deg)
Comments :

Handwritten notes:
21/5/23
TUNZ
[Signature]

Dr. Naresh Kumar Mohanka
RMC No.: 35703
MBBS, DIP. CARDIO (ESCORTS)
D.E.M. (RCGP-UK)