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

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General Physical Examination

Date of Examination: 19/11/22

Name: MAHAVEER PRASAD KHATI Age: 53 DOB: 02/04/1969 Sex: Male

Referred By: BANK OF BARODA

Photo ID: ID Card ID #: 161252

Ht: 173 (cm) Wt: 80 (Kg)

Chest (Expiration): 100 (cm) Abdomen Circumference: 97 (cm)

Blood Pressure: 120/80 mm Hg PR: 79 / min RR: 17 / min Temp: Afebrile

BMI 26

Eye Examination: RE- EG ; NG ; N.C.B
LE- EG ; NG ; N.C.B

Other: N/A

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

Signature Of Examine : ---------- **Name of Examinee:** Mr. MAHAVEER PRASAD KHATI

Signature Medical Examiner : ---------- **Name Medical Examiner** Dr. U.C. Gupta

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NAME :- Mr. MAHAVEER PRASAD KHATI
Age :- 53 Yrs 7 Mon 12 Days
Sex :- Male

Patient ID :-12222424 Date :- 12/11/2022 09:46:57
Ref. By Doctor:-BANK OF BARODA
Lab/Hosp :-
Company :- Mr.MEDI ASSIST TPA

Final Authentication : 13/11/2022 08:48:00

HAEMATOLOGY

Test Name	Value	Unit	Biological Ref Interval
FULL BODY HEALTH CHECKUP ABOVE 40 MALE			
HAEMOGARAM			
HAEMOGLOBIN (Hb)	16.8	g/dL	13.0 - 17.0
TOTAL LEUCOCYTE COUNT	5.30	/cumm	4.00 - 10.00
DIFFERENTIAL LEUCOCYTE COUNT			
NEUTROPHIL	66.0	%	40.0 - 80.0
LYMPHOCYTE	27.0	%	20.0 - 40.0
EOSINOPHIL	3.0	%	1.0 - 6.0
MONOCYTE	4.0	%	2.0 - 10.0
BASOPHIL	0.0	%	0.0 - 2.0
TOTAL RED BLOOD CELL COUNT (RBC)	5.45	x10^6/uL	4.50 - 5.50
HEMATOCRIT (HCT)	**53.30** H	%	40.00 - 50.00
MEAN CORP VOLUME (MCV)	94.0	fL	83.0 - 101.0
MEAN CORP HB (MCH)	29.6	pg	27.0 - 32.0
MEAN CORP HB CONC (MCHC)	31.5	g/dL	31.5 - 34.5
PLATELET COUNT	252	x10^3/uL	150 - 410
RDW-CV	13.5	%	11.6 - 14.0
MENTZER INDEX	**17.25** H		0.00 - 0.00

A complete blood picture (CBP) is a kind of blood test that is done to assess a person's overall health and diagnose a wide range of health disorders like leukemia, anemia and other infections.
A complete blood count (CBC) is a complete blood test that diagnose many components and features of a persons blood which includes: -
***Red Blood Cells (RBC),** which carry oxygen -
***White Blood Cells (WBC),** which help in fighting against infections -
***Hemoglobin,** which is the oxygen carrying protein in the red blood cells -
***Hematocrit (HCT),** the proportion of RBC to the fluid component, or plasma present in blood -
***Platelets,** which aid in blood clotting

(CBC): Methodology: TLC,TRBC,PCV,PLT Impedance method, HB Calorimetric method,. and **MCH,MCV,MCHC,MENTZER INDEX** are calculated. **InstrumentName: MINDRAY BC-3000 Plus 3** part automatic analyzer,

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HAEMATOLOGY

Erythrocyte Sedimentation Rate (ESR) Methord:- Westergreen	08	mm in 1st hr	00 - 15

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) Methord:- GOD POD	82.5	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) Methord:- GOD PAP	130.0	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) Methord:- CAPILLARY with EDTA	6.0	mg%	Non-Diabetic < 6.0 Good Control 6.0-7.0 Weak Control 7.0-8.0 Poor control > 8.0
MEAN PLASMA GLUCOSE Methord:- Calculated Parameter	125	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:
1.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.
2.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:
1.To follow patient for glycemic control test like fructosamine or glycated albumin may be performed instead.
2.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 Methord:- Haemagglutination reaction	"A" POSITIVE

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BIOCHEMISTRY

Test Name	Value	Unit	Biological Ref Interval
LIPID PROFILE			
TOTAL CHOLESTEROL Methord:- CHOD-PAP methodology	171.00	mg/dl	Desirable <200 Borderline 200-239 High> 240
InstrumentName:MISPA PLUS **Interpretation:** Cholesterol measurements are used in the diagnosis and treatments of lipid lipoprotein metabolism disorders.			
TRIGLYCERIDES Methord:- GPO-TOPS methodology	97.00	mg/dl	Normal <150 Borderline high 150-199 High 200-499 Very high >500
InstrumentName:MISPA PLUS **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 Methord:- Selective inhibition Method	76.00	mg/dl	Male 35-80 Female 42-88
Instrument Name:MISPA 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 Methord:- Calculated Method	78.83	mg/dl	Optimal <100 Near Optimal/above optimal 100-129 Borderline High 130-159 High 160-189 Very High > 190
VLDL CHOLESTEROL Methord:- Calculated	19.40	mg/dl	0.00 - 80.00
T.CHOLESTEROL/HDL CHOLESTEROL RATIO Methord:- Calculated	2.25		0.00 - 4.90
LDL / HDL CHOLESTEROL RATIO Methord:- Calculated	1.04		0.00 - 3.50
TOTAL LIPID Methord:- CALCULATED	502.61	mg/dl	400.00 - 1000.00

1. Measurements in the same patient can show physiological& analytical variations. Three serialsamples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL& LDL Cholesterol.
2. 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
3. Low HDL levels are associated with Coronary Heart Disease due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated fromperipheral tissues.

Comments: **1-** ATP III suggested the addition of Non HDL Cholesterol (Total Cholesterol – HDL Cholesterol) as an indicator of all VIKARANTJI

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BIOCHEMISTRY

atherogenic lipoproteins (mainly LDL & VLDL). The Non HDL Cholesterolis 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) Methord:- DMSO/Diazo	0.71	mg/dL	Infants : 0.2-8.0 mg/dL Adult - Up to - 1.2 mg/dL
SERUM BILIRUBIN (DIRECT) Methord:- DMSO/Diazo	0.28	mg/dL	Up to 0.40 mg/dL
SERUM BILIRUBIN (INDIRECT) Methord:- Calculated	0.43	mg/dl	0.30-0.70
SGOT Methord:- IFCC	36.6	U/L	Men- Up to - 37.0 Female - Up to - 31.0
SGPT Methord:- IFCC	**51.3** H	U/L	Men- Up to - 40.0 Female- Up to - 31.0
SERUM ALKALINE PHOSPHATASE Methord:- DGKC - SCE	60.90	U/L	53.00 - 141.00
SERUM GAMMA GT Methord:- Szasz methodology Instrument Name Randox Rx Imola	20.50	U/L	10.00 - 45.00
SERUM TOTAL PROTEIN Methord:- Direct Biuret Reagent	6.14	g/dl	5.10 - 8.00
SERUM ALBUMIN Methord:- Bromocresol Green	4.14	g/dl	2.80 - 4.50
SERUM GLOBULIN Methord:- CALCULATION	**2.00** L	gm/dl	2.20 - 3.50
A/G RATIO	2.07		1.30 - 2.50

Interpretation: Elevations in GGT levels areseen 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.

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 Methord:- Urease/GLDH	22.90	mg/dl	10.00 - 50.00

InstrumentName: MISPA PLUS **Interpretation** : Urea measurements are used in the diagnosis and treatment of certain renal and metabolic diseases.

SERUM CREATININE Methord:- Jaffe's Method	1.07	mg/dl	Males : 0.6-1.50 mg/dl Females : 0.6 -1.40 mg/dl

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	7.00	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 Methord:- ISE	**133.8** L	mmol/L	135.0 - 150.0

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 Methord:- ISE	4.56	mmol/L	3.50 - 5.50

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

CHLORIDE Methord:- ISE	102.9	mmol/L	94.0 - 110.0

Interpretation: Used for Electrolyte monitoring.

SERUM CALCIUM Methord:- Arsenazo III Method	9.80	mg/dL	8.80 - 10.20

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 Methord:- Biuret Reagent	6.14	g/dl	5.10 - 8.00

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SERUM ALBUMIN Methord:- Bromocresol Green	4.14	g/dl	2.80 - 4.50
SERUM GLOBULIN Methord:- CALCULATION	**2.00** L	gm/dl	2.20 - 3.50
A/G RATIO	2.07		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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IMMUNOASSAY

Test Name	Value	Unit	Biological Ref Interval
PSA (PROSTATE SPECIFIC ANTIGEN) -TOTAL Methord:- Methodology: CLIA	1.407	ng/mL	0.00-4.00

CLINICAL NOTES:- Prostate-specific antigen (PSA)is a 34-kD glycoprotein produced almost exclusively by the prostate gland.

PSA is normally present in the blood at very low levels. Increased levels of PSA may suggest the presence of prostate cancer.

1.Immediate PSA testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization, ultrasonography and needle biopsy of prostate is not
recommended as they falsely elevate levels

2. PSA values regardless of levels should not be interpreted as absolute evidence of the presence or absence of disease. All values should be correlated with clinical
findings and other investigations

3. Physiological decrease in PSA level by 18% has been observed in sedentary patients either due to supine position or suspended sexual activity

Clinical Use

• An aid in the early detection of Prostate cancer when used in conjunction with Digital rectal examination in males more than 50 years of age and in those with two or more
affected first degree relatives.
• Follow up and management of Prostate cancer patients
• Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

NOTE

PSA levels can be also increased by prostatitis, irritation, benign prostatic hyperplasia (BPH), and recent ejaculation, producing a false positive result. Digital rectal examination (DRE) has been shown in several studies to produce an increase in PSA. However, the effect is clinically insignificant, since DRE causes the most substantial
increases in patients with PSA levels already elevated over 4.0 ng/mL.

Obesity has been reported to reduce serum PSA levels. Delayed early detection may partially explain worse outcomes in obese men with early prostate cancer. Aftertreatment, higher BMI also correlates to higher risk of recurrence.

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

P3 HEALTH SOLUTIONS LLP
(ASSOCIATES OF MAXCARE DIAGNOSTICS)

B-14, Vidhyadhar Enclave - II, Near Axis Bank
Central Spine, Vidhyadhar Nagar, Jaipur - 302023
+91 141 4824885 maxcarediagnostics1@gmail.com

NAME :- Mr. MAHAVEER PRASAD KHATI	Patient ID :-12222424	Date :- 12/11/2022	09:46:57
Age :- 53 Yrs 7 Mon 12 Days	Ref. By Doctor:-BANK OF BARODA		
Sex :- Male	Lab/Hosp :-		
	Company :- Mr.MEDI ASSIST TPA		

Final Authentication : 13/11/2022 08:48:00

IMMUNOASSAY

TOTAL THYROID PROFILE

THYROID-TRIIODOTHYRONINE T3	1.31	ng/mL	0.70 - 2.04

Methord:- ECLIA

NOTE-TSH levels are subject to circardian 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,simoultaneous measurement of TSH with free T4 is useful in evaluating differantial 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.HighTSH,Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroiditis 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 levels8.Normal T4 levels accompanied by ' T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis9.Normal or" T3 & 'T 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 Hypoth

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)	8.12	µIU/ml	5.10 - 14.10

Methord:- ECLIA

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7.Primary hypothyroidism is accompanied by ↓ serum T3 and T4 values & 'serum TSH levels8.Normal T4 levels accompanied by ' T3 levels and low TSH are seen in patients with T3 Thyrotoxicosis9.Normal or" T3 & 'T 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 Hypoth

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TSH	1.237	µIU/mL	0.350 - 5.500

Methord:- ECLIA

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Transient increase in TSH levels or abnormal TSH levels can be seen in some non thyroidal conditions,simoultaneous measurement of TSH with free T4 is useful in evaluating differantial 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

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Final Authentication : 13/11/2022 08:48:00

IMMUNOASSAY

3.Low TSH,high FT4 and TSH receptor antibody(TRAb) -ve seen in patients with Toxic adenoma/Toxic Multinodular goiter
4.HighTSH,Low FT4 and Thyroid microsomal antibody increased seen in patients with Hashimotos thyroiditis
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 propanolol.
14.Although ↑ TSH levels are nearly always indicative of Primary Hypothroidism ,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.

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*** End of Report ***

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Ref. By Doctor:-BANK OF BARODA
Lab/Hosp :-
Company :- Mr.MEDI ASSIST TPA

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CLINICAL PATHOLOGY

Test Name	Value	Unit	Biological Ref Interval
Urine Routine			
PHYSICAL EXAMINATION			
COLOUR	PALE YELLOW		PALE YELLOW
APPEARANCE	Clear		Clear
CHEMICAL EXAMINATION			
REACTION(PH)	5.0		5.0 - 7.5
SPECIFIC GRAVITY	1.030		1.010 - 1.030
PROTEIN	NIL		NIL
SUGAR	NIL		NIL
BILIRUBIN	NEGATIVE		NEGATIVE
UROBILINOGEN	NORMAL		NORMAL
KETONES	NEGATIVE		NEGATIVE
NITRITE	NEGATIVE		NEGATIVE
MICROSCOPY EXAMINATION			
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		

VIKARANTJI

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DR.TANU RUNGTA
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RMC No. 17226


P3 Health Sloutions
12/11/2022 11:19:15 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
URINARY BLADDER


P3 Health Sloutions
12/11/2022 11:19:19 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
PRE VOID
d1 4.12 cm
d2 7.45 cm
d3 8.50 cm
Vol 136.69 ml


P3 Health Sloutions
12/11/2022 11:19:52 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
PROSTATE
d1 3.66 cm
d2 5.09 cm
d3 3.74 cm
Vol 36.52 ml


P3 Health Sloutions
12/11/2022 11:20:25 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
L 13.21 mm


P3 Health Sloutions
12/11/2022 11:20:42 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
PANCREAS


P3 Health Sloutions
12/11/2022 11:22:50 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.3
4C
N_ABD
LIVER
L 152.10 mm


P3 Health Sloutions
12/11/2022 11:23:11 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.2
TIs 0.3
4C
N_ABD
GALLBLADDER


P3 Health Sloutions
12/11/2022 11:23:43 amADM
MR. MAHAVEER AGE 53YRS .
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
RT KIDNEY
L 107.65 mm
L 52.51 mm


P3 Health Sloutions
12/11/2022 11:24:29 amADM
MR. MAHAVEER AGE:53YRS ,
121122-111536AM
MI 1.2
TIs 0.3
4C
N_ABD
SPLEEN
GE
FR 24
AO% 100
CHI
Frq 4.0
Gn 42
S/A 3/4
Map F/0
D 17.0
DR 72
Whizz Off
0
5
10
15
1 L 110.68 mm


P3 Health Sloutions
12/11/2022 11:24:52 amADM
MR. MAHAVEER AGE:53YRS ,
121122-111536AM
MI 1.1
TIs 0.4
4C
N_ABD
LT KIDNEY
GE
FR 26
AO% 100
CHI
Frq 4.0
Gn 28
S/A 3/4
Map F/0
D 15.0
DR 72
Whizz Off
0
5
10
15
1 L 116.10 mm
2 L 51.85 mm

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MR. MAHAVEER PRASAD KHATI	**53 Y/Male**
Registration Date: 12/11/2022	**Ref. by: BANK OF BARODA**

ULTRASOUND OF WHOLE ABDOMEN

Liver is mildly enlarged in size (15.2 cm) with increased echo-texture. 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 of normal size. Wall is not thickened. 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. 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 calculus or dilatation.
Right kidney is measuring approx. 10.7 x 5.2 cm.
Left kidney is measuring approx. 11.6 x 5.1 cm.

Urinary bladder does not show any calculus or mass lesion.
Prevoid: 137 cc **Postvoid: 64-65 cc (significant)**

Prostate is enlarged in size (measuring 3.6 x 5.0 x 3.7 cm, volume 36-37 cc) with indentation of base of urinary bladder by median lobe and intravesical prostatic component of size 13-14 mm – grade 2 prostatomegaly with BPH likely.

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

IMPRESSION:

- **Grade 2 prostatomegaly with significant postvoid urine retention as described above – BPH likely. Adv: Clinical/PSA correlation.**
- **Grade 1 fatty liver.**

Dr. SHALINI GOEL
MBBS, DNB (Radiologist)
RMC No. 21954
P-3 Health Solutions LLP

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NAME:	MR. MAHAVEER PRASAD KHATI	AGE	53 YRS/M
REF.BY	BANK OF BARODA	DATE	12/11/2022

CHEST X RAY (PA VIEW)

Bilateral lung fields appear clear.

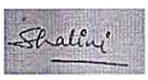
Bilateral costo-phrenic angles appear clear.

Cardiothoracic ratio is normal.

Thoracic soft tissue and skeletal system appear unremarkable.

Soft tissue shadows appear normal.

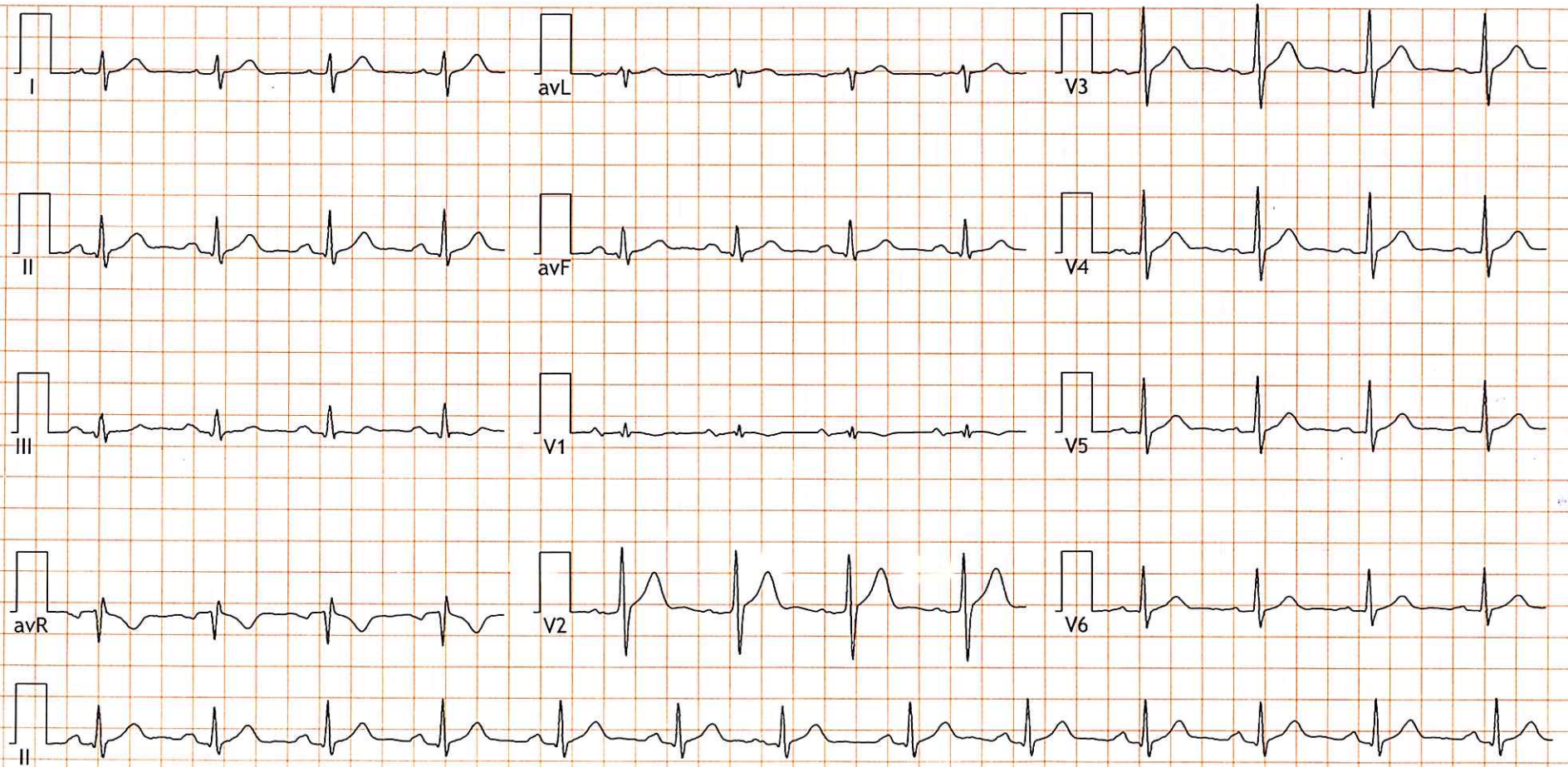
IMPRESSION: No significant abnormality is detected.



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

P3 HEALTH SOLUTIONS LLP
B-14, Vidhyanagar Nagar, Enclave, Phase-2, Jaipur
12229451322435/Mr Mahaveer Prasad Khati 53Yrs-2Months/Male Kgs/ Cms BP: ___/___ mmHg HR: 77 bpm
Ref.: BANK OF BARODA Test Date: 12-Nov-2022(12:39:03) Notch: 50Hz 0.05Hz - 100Hz 10mm/mV 25mm/Sec

PR Interval: 182 ms
QRS Duration: 110 ms
QT/QTc: 340/386ms
P-QRS-T Axis: 64 - 67 - 34 (Deg)



FINDINGS: Normal Sinus Rhythm
Vent Rate : 77 bpm; PR Interval : 182 ms; QRS Duration: 110 ms; QT/QTc Int : 340/386 ms
P-QRS-T axis: 64• 67• 34• (Deg)
Comments :

TWNL

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

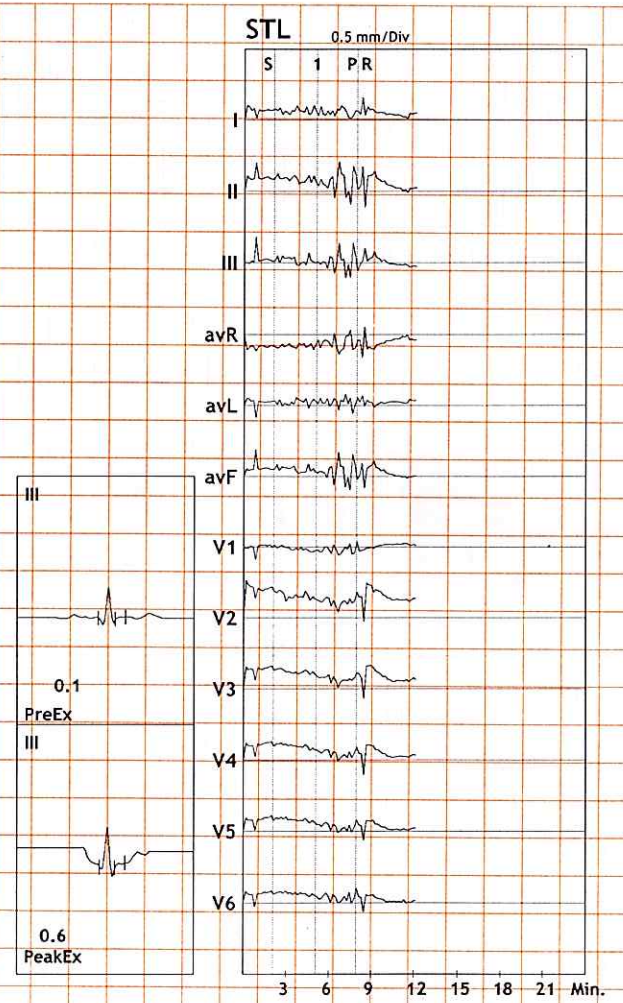
P3 HEALTH SOLUTIONS LLP
B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

Summary

1322224/MR MAHAVEER PRASAD KHATI 53 Yrs/Male 0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM
Ref.By : BANK OF BARODA
Medication :
Objective :

Protocol : BRUCE
History :

Stage	StageTime (Min:Sec)	PhaseTime (Min:Sec)	Speed (mph)	Grade (%)	METs	H.R. (bpm)	B.P. (mmHg)	R.P.P. x100	PVC	Comments
Supine					1.0	83	125/85	103	-	
Standing					1.0	99	125/85	123	-	
HV					1.0	87	125/85	108	-	
ExStart					1.0	94	125/85	117	-	
Stage 1	3:01	3:02	1.7	10.0	4.7	138	135/85	186	-	
PeakEx	2:55	5:56	2.5	12.0	7.0	152	145/85	220	-	
Recovery	1:00		0.0	0.0	1.0	118	145/85	171	-	
Recovery	2:00		0.0	0.0	1.0	107	155/90	165	-	
Recovery	3:00		0.0	0.0	1.0	98	145/85	142	-	
Recovery	4:00		0.0	0.0	1.0	103	135/85	139	-	



Findings :

Exercise Time :05:55
Max HR Attained :152 bpm 91% of Max Predictable HR 167
Max BP : 155/90(mmHg)
Max WorkLoad attained :7(Fair Effort Tolerance)

TMT is NEGATIVE for RMI

Advice/Comments:

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

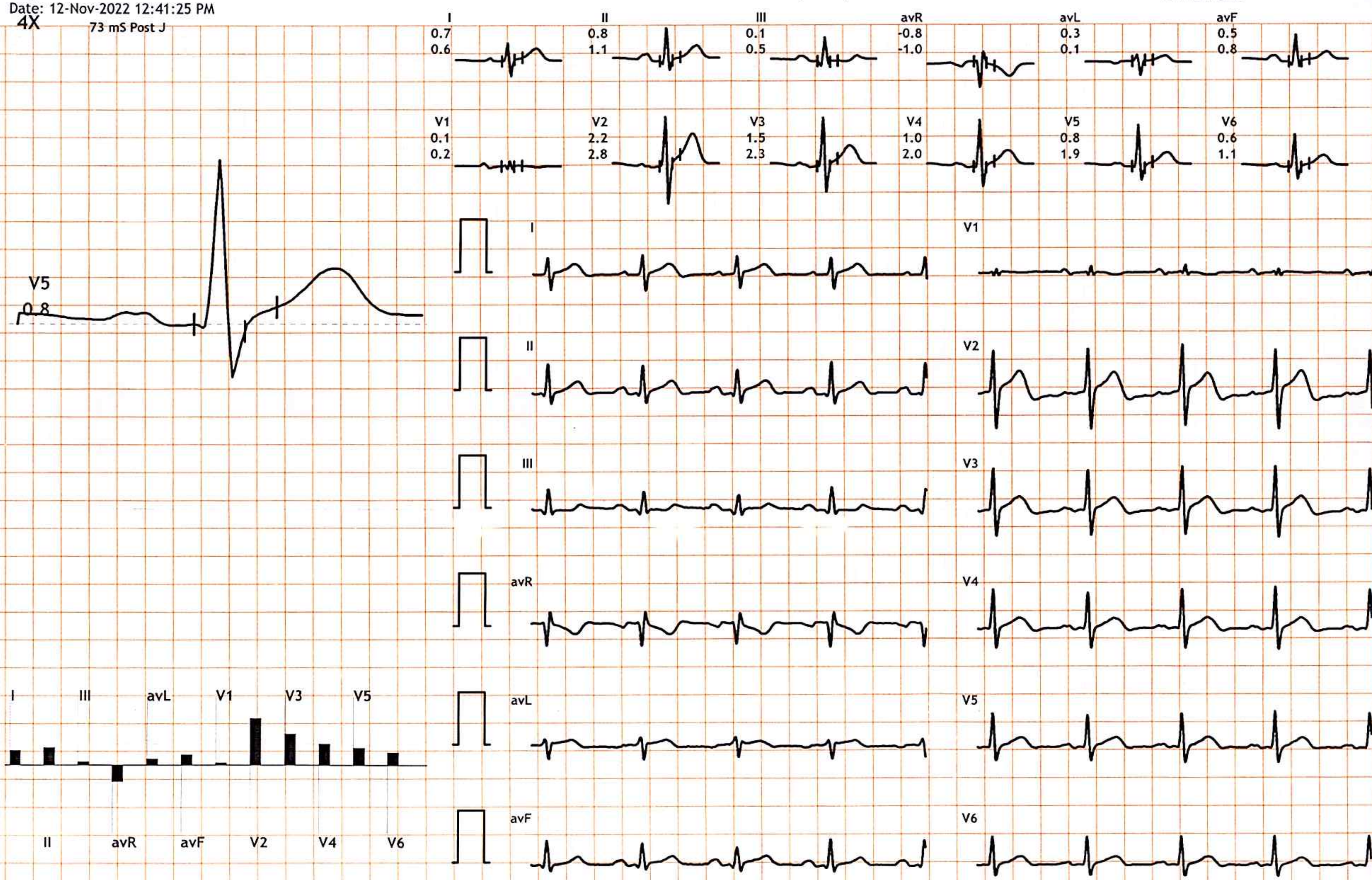
P3 HEALTH SOLUTIONS LLP

B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 83 bpm	MPHR:49% of 167	Raw ECG	Ex Time 00:30	Supine
METS: 1.0	Speed: 0.0 mph	BRUCE	BLC :On	10.0 mm/mV
BP: 125/85	Grade: 0.0%	(1.0-35)Hz	Notch :On	25 mm/Sec.



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B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 99 bpm
METS: 1.0
BP: 125/85

MPHR:59% of 167
Speed: 0.0 mph
Grade: 0.0%

Raw ECG
BRUCE
(1.0-35)Hz

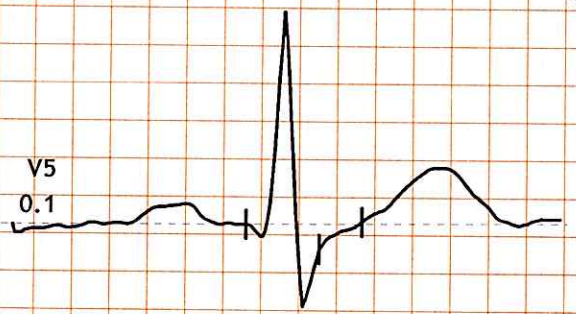
Ex Time 00:55
BLC :On
Notch :On

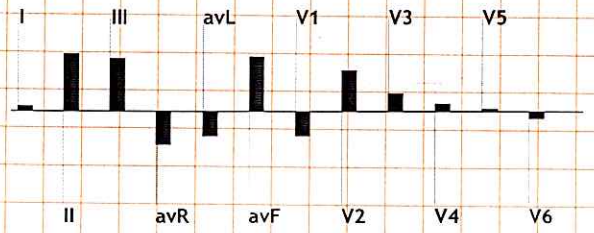
Standing
10.0 mm/mV
25 mm/Sec.

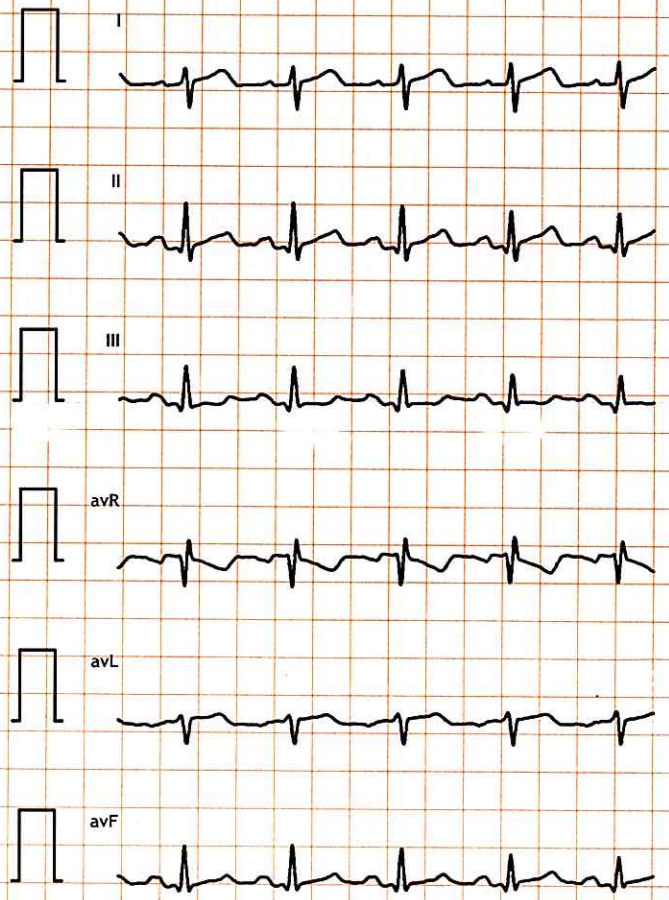
4X 73 mS Post J

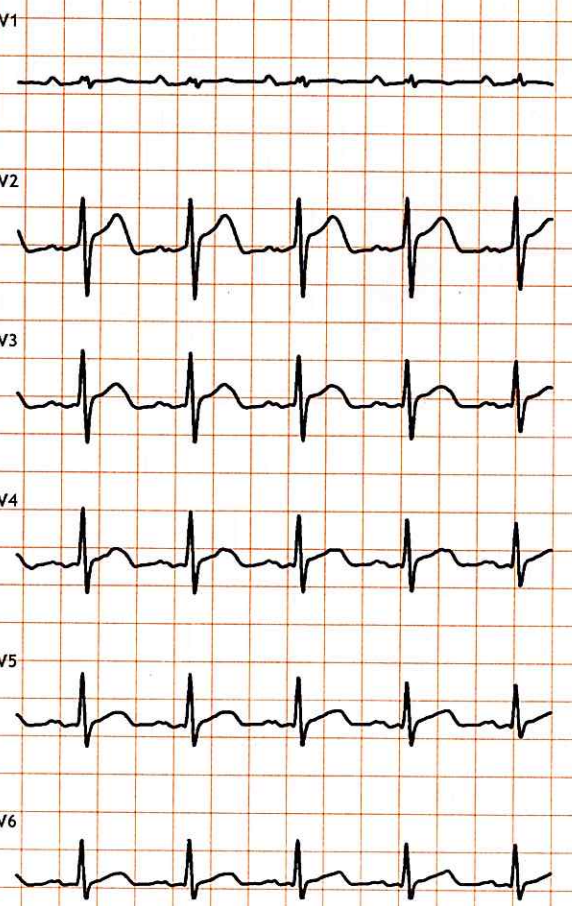
I	II	III	avR	avL	avF
0.2 0.8	2.0 1.7	1.8 0.8	-1.2 -1.4	-0.9 0.0	1.9 1.2

V1	V2	V3	V4	V5	V6
-0.9 -0.2	1.4 2.8	0.6 2.3	0.3 1.9	0.1 1.6	-0.2 1.1









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B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

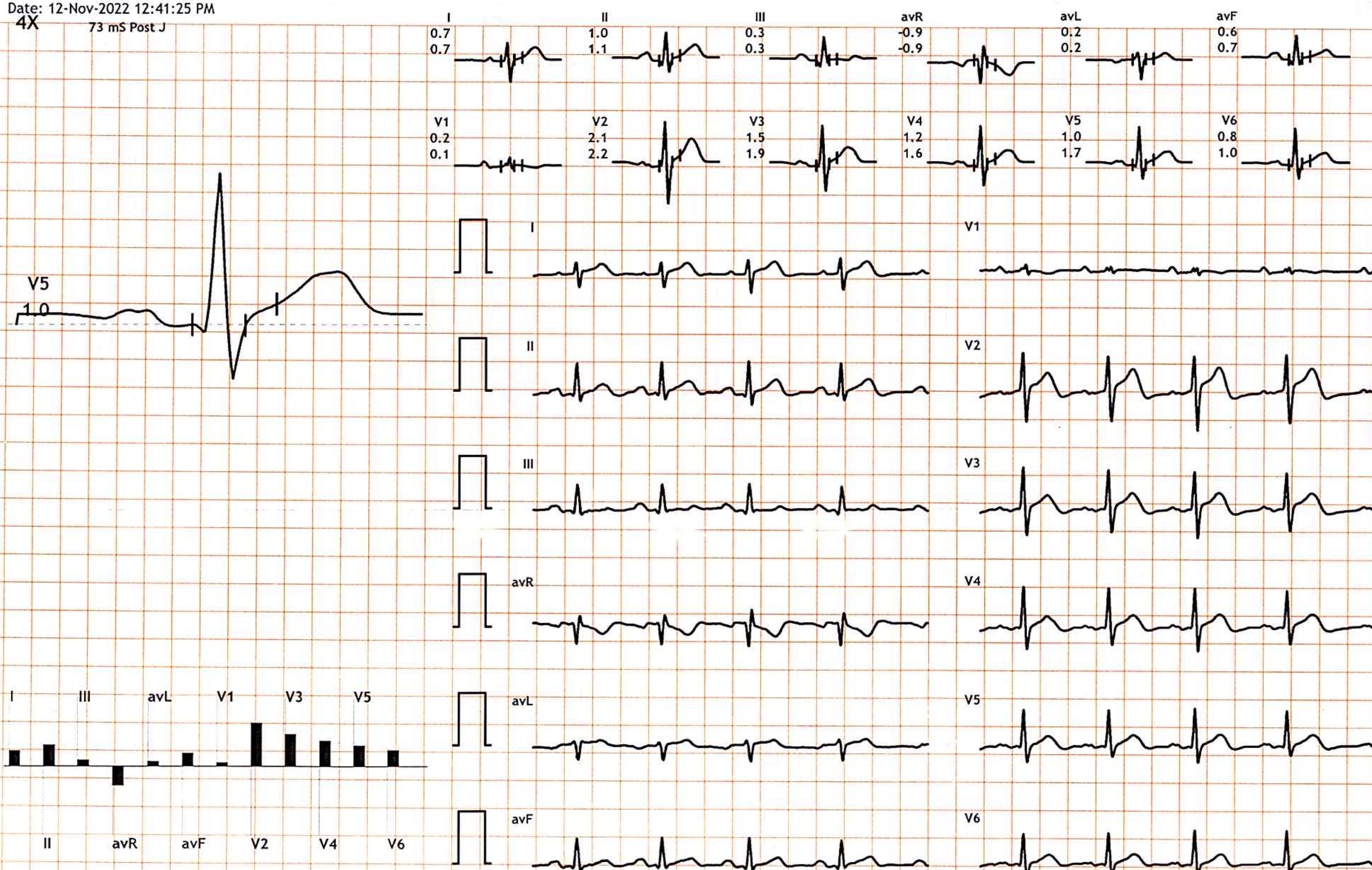
HR: 91 bpm
METS: 1.0
BP: 125/85

MPHR:54% of 167
Speed: 0.0 mph
Grade: 0.0%

Raw ECG
BRUCE
(1.0-35)Hz

Ex Time 01:37
BLC :On
Notch :On

HV
10.0 mm/mV
25 mm/Sec.



Print Date: 12-Nov-2022

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B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 153 bpm
METS: 7.0
BP: 145/85

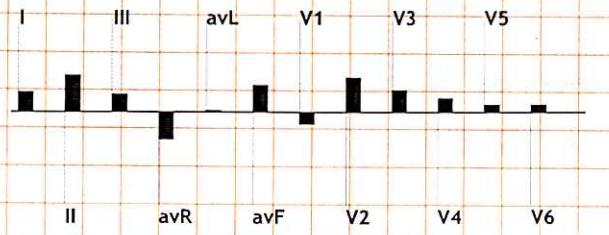
MPHR:91% of 167
Speed: 2.5 mph
Grade: 12.0%

Raw ECG
BRUCE
(1.0-35)Hz

Ex Time 05:53
BLC :On
Notch :On

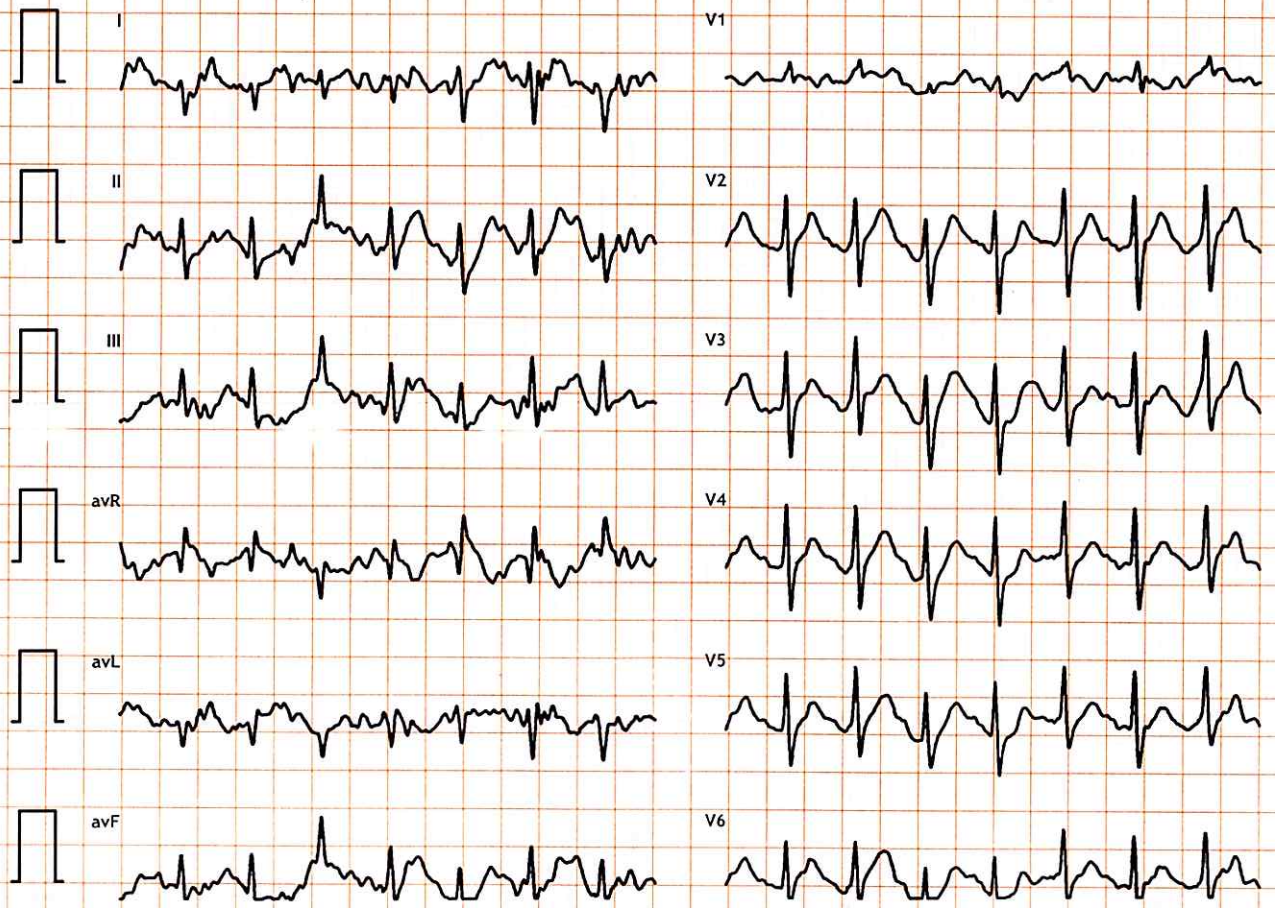
BRUCE:PeakEx(2:53)
10.0 mm/mV
25 mm/Sec.

4X 73 mS Post J



I	II	III	avR	avL	avF
0.7	1.3	0.6	-1.0	0.0	0.9
1.8	2.8	1.1	-2.4	0.3	2.0

V1	V2	V3	V4	V5	V6
-0.4	1.2	0.8	0.5	0.3	0.3
-0.8	3.5	3.4	3.1	2.9	2.0



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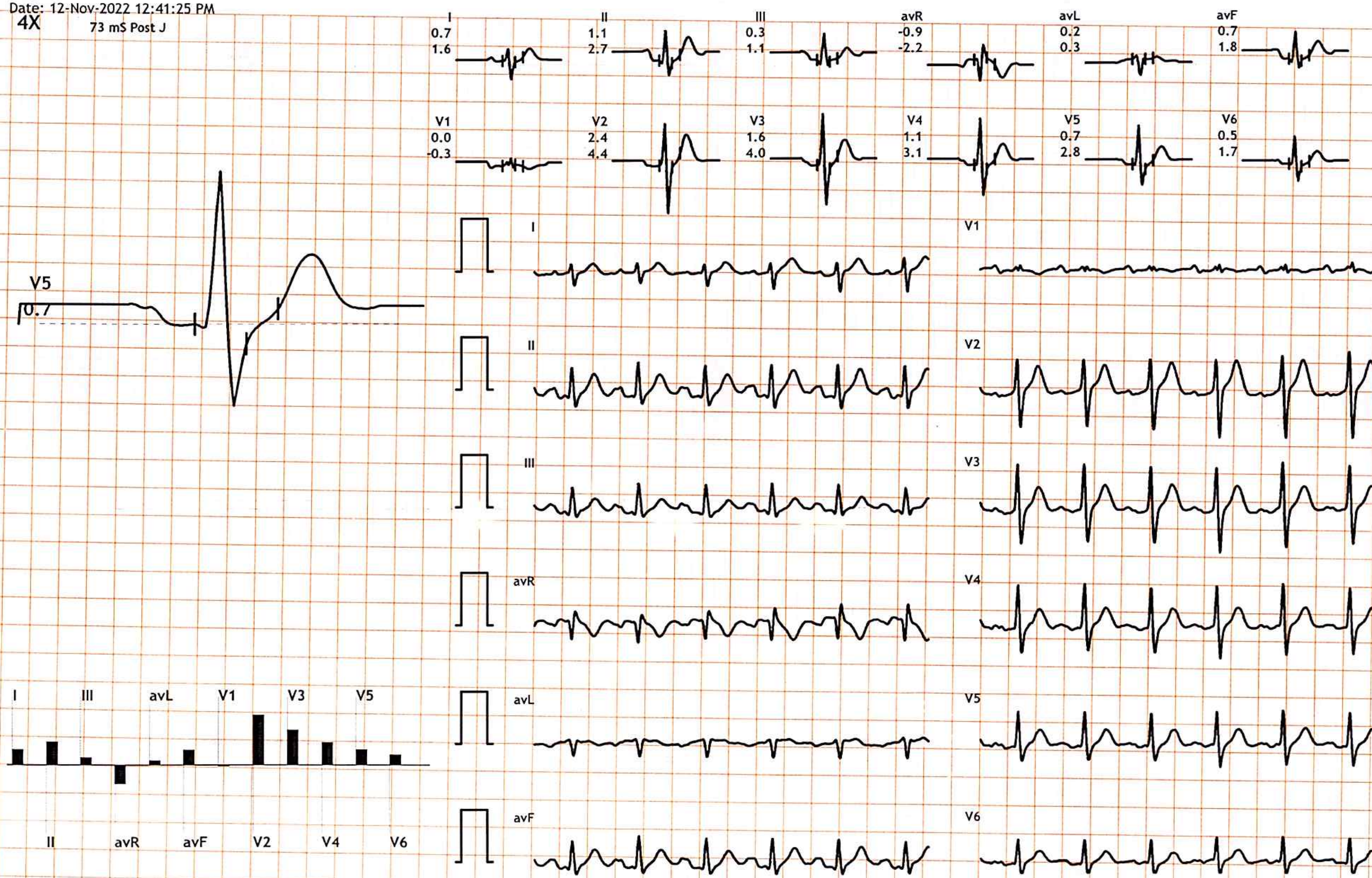
B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 118 bpm	MPHR:70% of 167	Raw ECG	Ex Time 05:55	Recovery(1:00)	
METS: 1.0	Speed: 0.0 mph	BRUCE	BLC :On	10.0 mm/mV	
BP: 145/85	Grade: 0.0%	(1.0-35)Hz	Notch :On	25 mm/Sec.	



P3 HEALTH SOLUTIONS LLP

B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

4X 73 mS Post J

HR: 138 bpm
METS: 4.7
BP: 135/85

MPHR:82% of 167
Speed: 1.7 mph
Grade: 10.0%

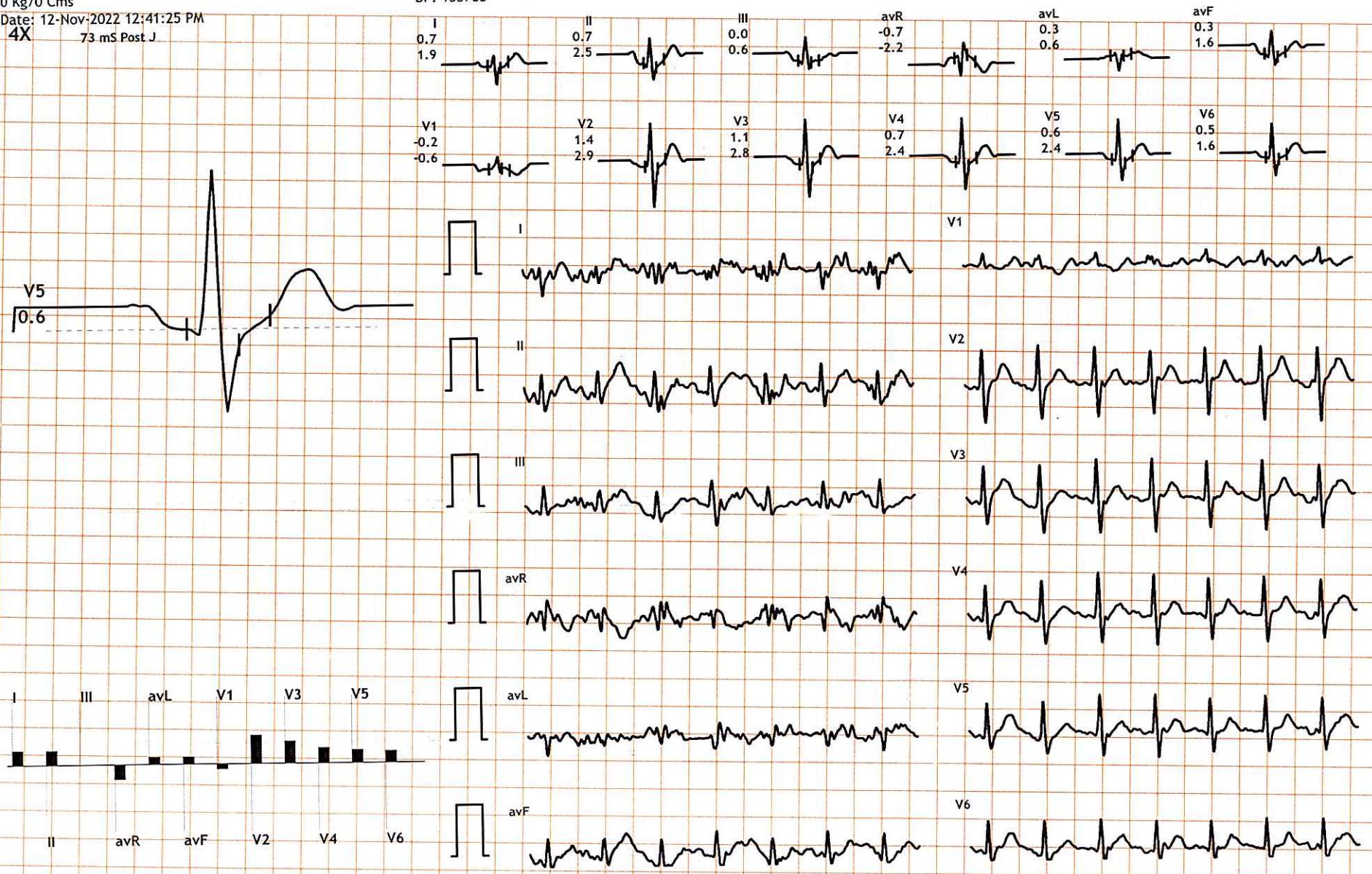
Raw ECG
BRUCE
(1.0-35)Hz

Ex Time 02:59
BLC :On
Notch :On

BRUCE:Stage 1(3:00)
10.0 mm/mV
25 mm/Sec.

12 Lead + Median

RMS



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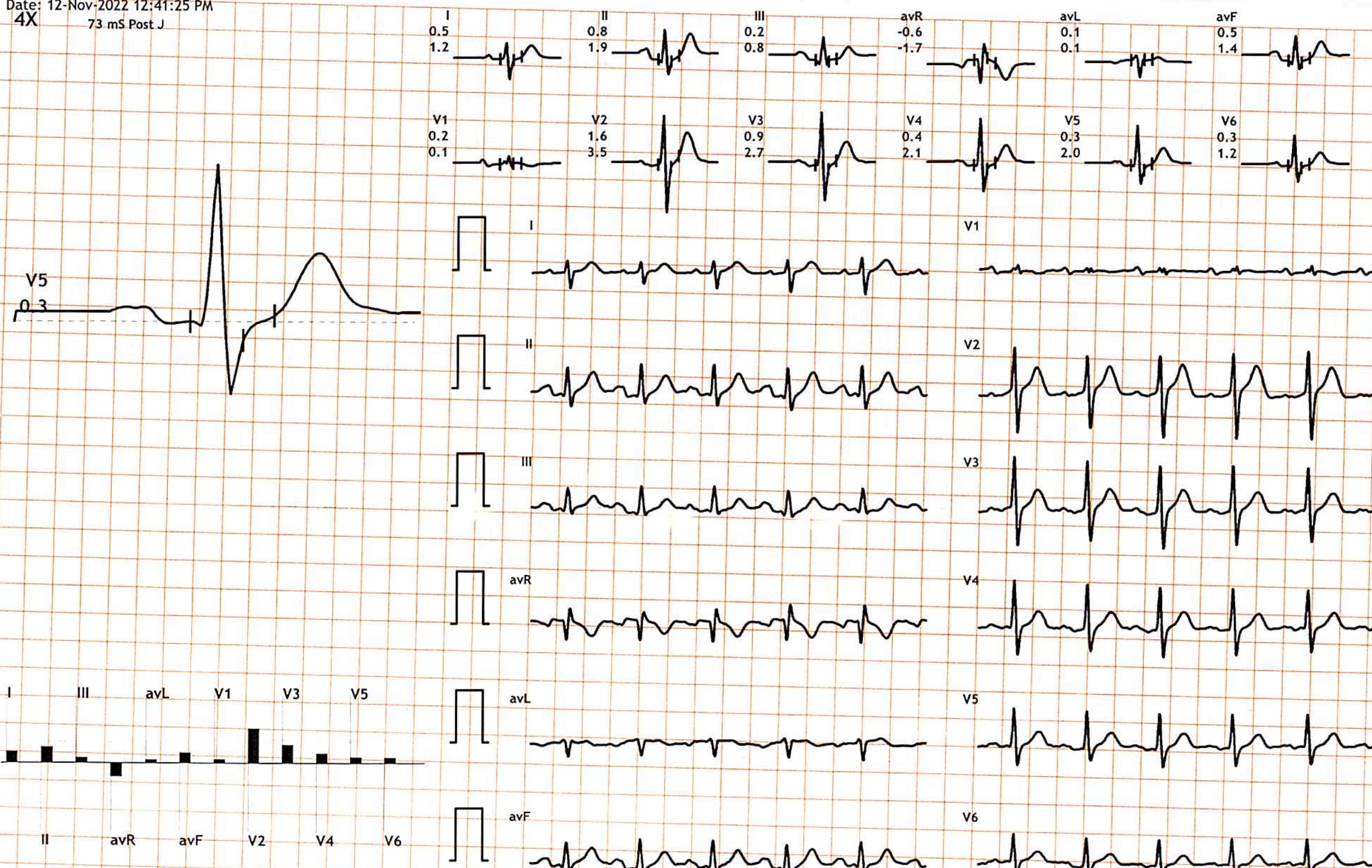
B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI	HR: 107 bpm	MPHR:64% of 167	Raw ECG	Ex Time 05:55	Recovery(2:00)
53 Yrs/Male	METS: 1.0	Speed: 0.0 mph	BRUCE	BLC :On	10.0 mm/mV
0 Kg/0 Cms	BP: 155/90	Grade: 0.0%	(1.0-35)Hz	Notch :On	25 mm/Sec.

Date: 12-Nov-2022 12:41:25 PM



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B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 97 bpm
METS: 1.0
BP: 145/85

MPHR:58% of 167
Speed: 0.0 mph
Grade: 0.0%

Raw ECG
BRUCE
(1.0-35)Hz

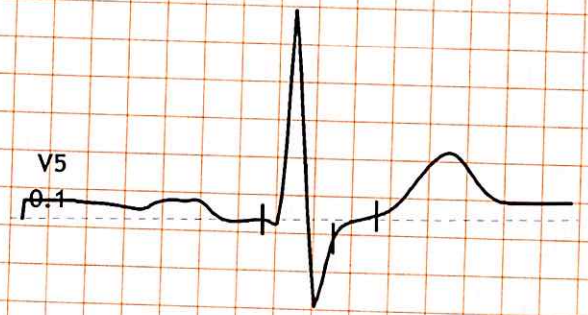
Ex Time 05:55
BLC :On
Notch :On

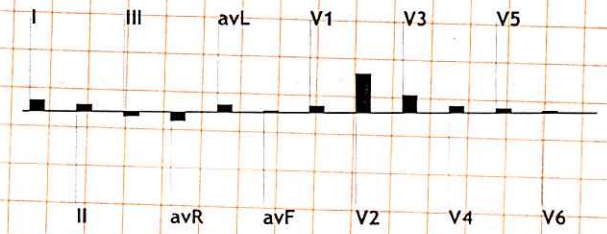
Recovery(3:00)
10.0 mm/mV
25 mm/Sec.

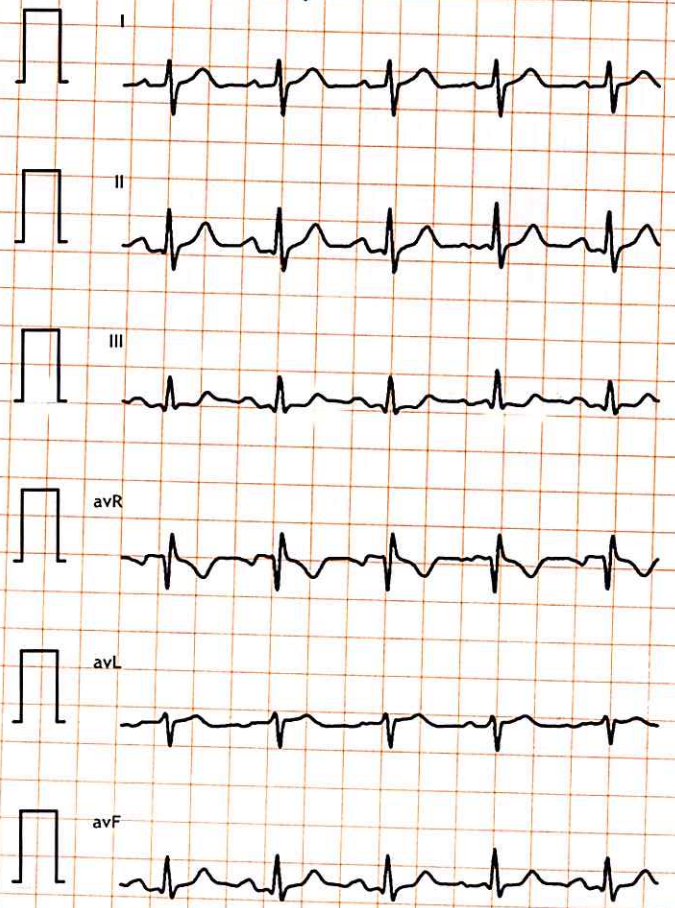
4X 73 mS Post J

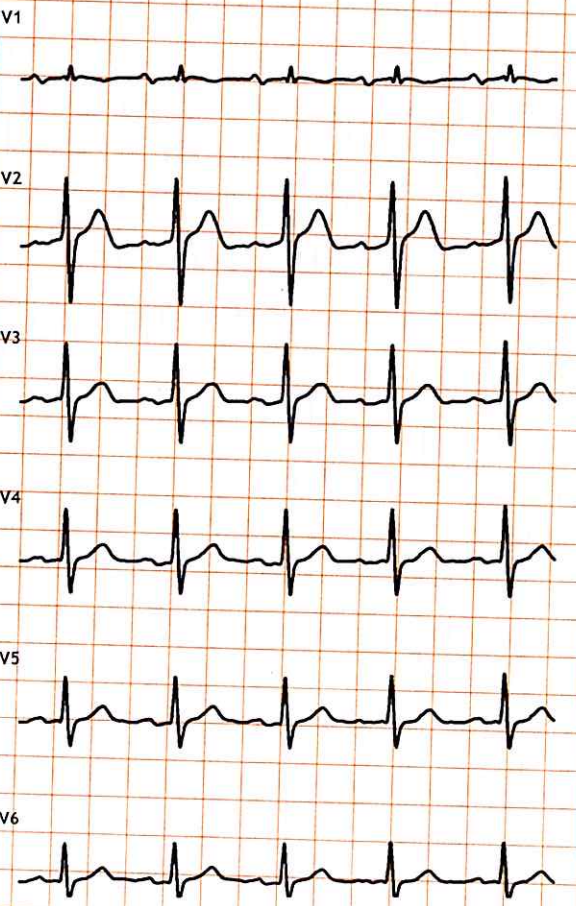
I	II	III	avR	avL	avF
0.4	0.2	-0.1	-0.3	0.3	0.0
0.8	1.0	0.1	-1.0	0.3	0.6

V1	V2	V3	V4	V5	V6
0.2	1.4	0.6	0.2	0.1	0.1
0.1	2.7	1.9	1.4	1.3	0.7









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B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

12 Lead + Median

1322224/MR MAHAVEER PRASAD KHATI
53 Yrs/Male
0 Kg/0 Cms
Date: 12-Nov-2022 12:41:25 PM

HR: 103 bpm
METS: 1.0
BP: 135/85

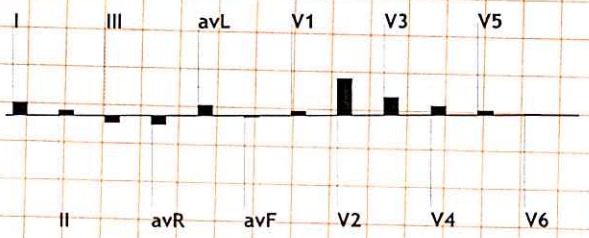
MPHR:61% of 167
Speed: 0.0 mph
Grade: 0.0%

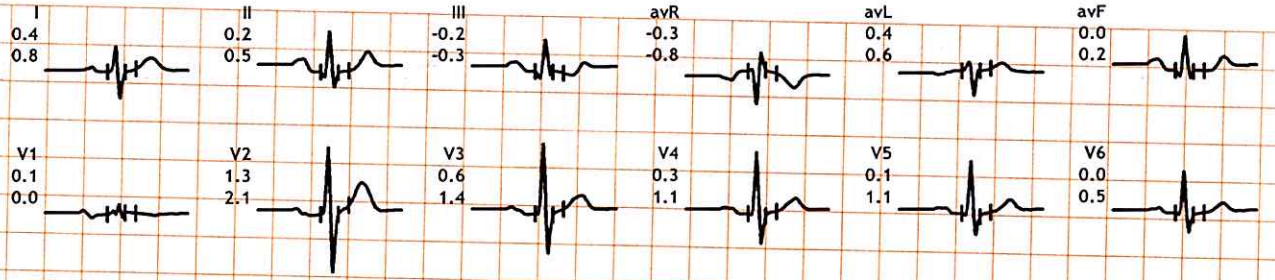
Raw ECG
(1.0-35)Hz

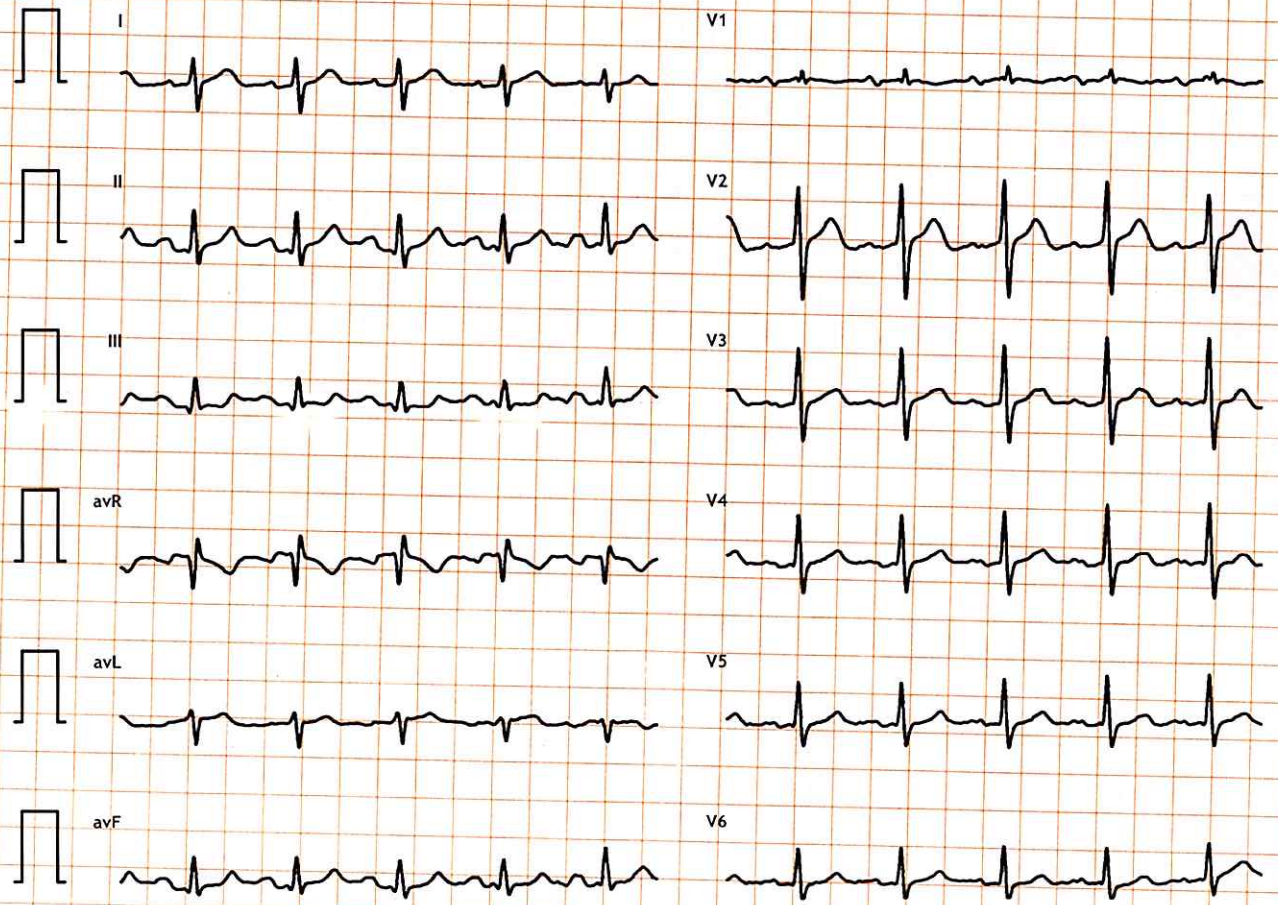
Ex Time 05:55
BLC :On
Notch :On

Recovery(4:00)
10.0 mm/mV
25 mm/Sec.

4X 73 mS Post J







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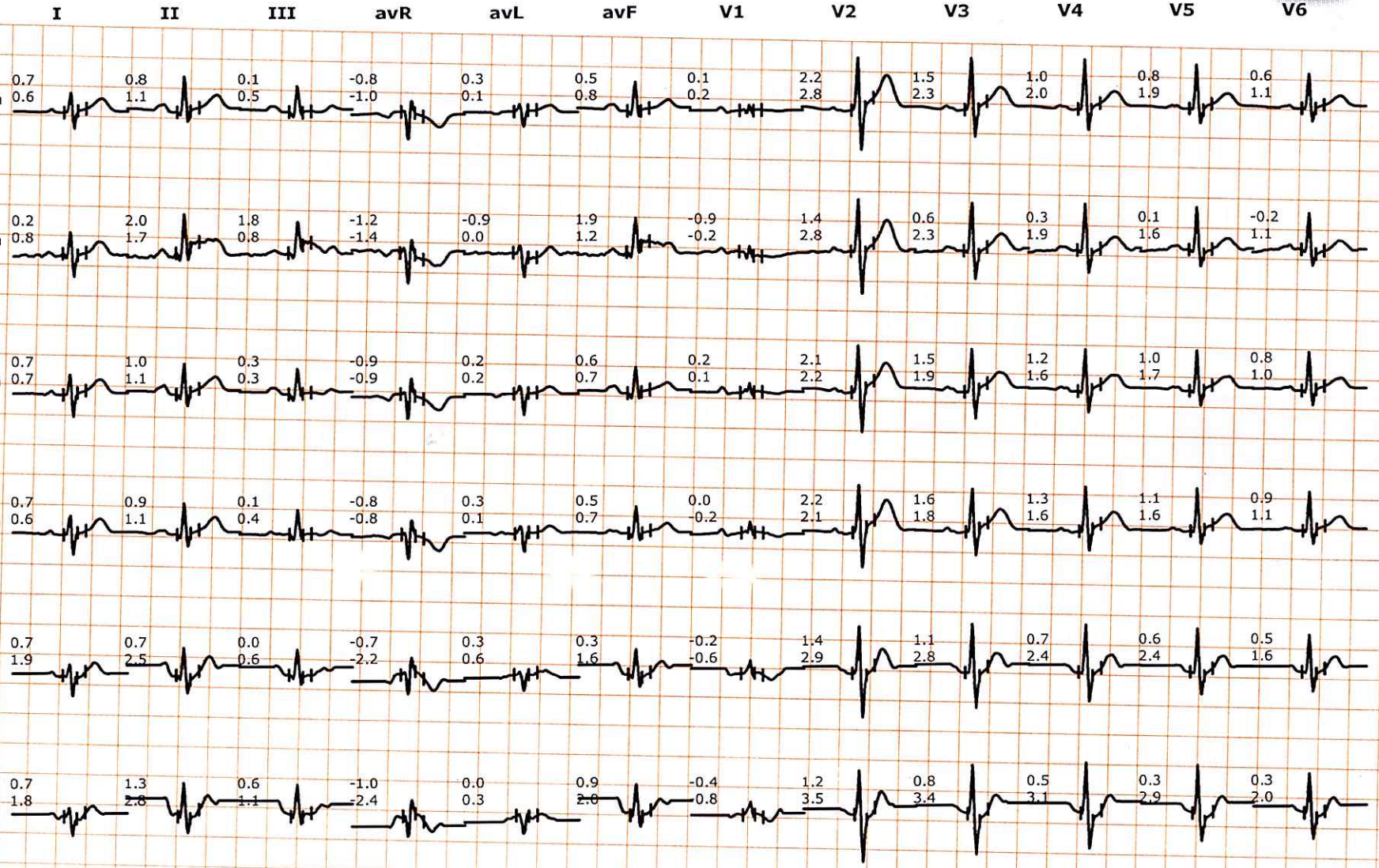
B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

1322224/MR MAHAVEER PRASAD KHATI 53 Yrs/Male 0 Kg/0 Cms

Date: 12-Nov-2022 12:41:25 PM

Average

RMS



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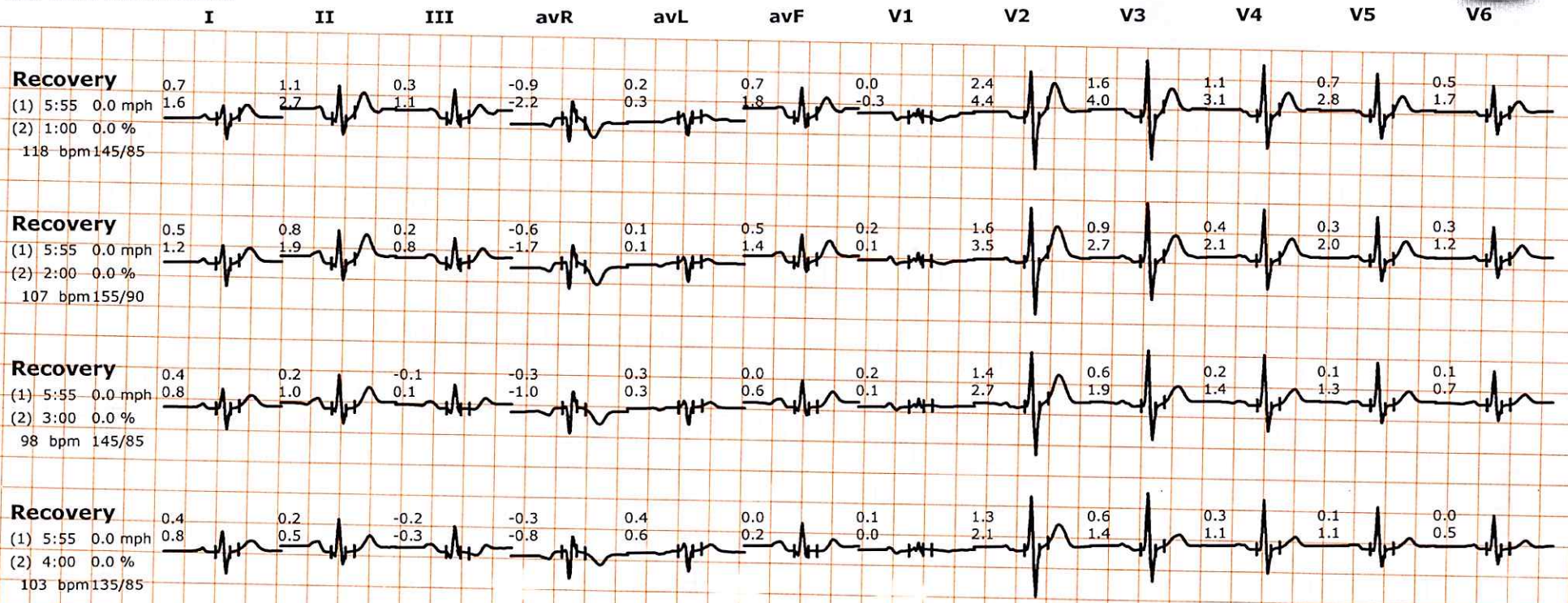
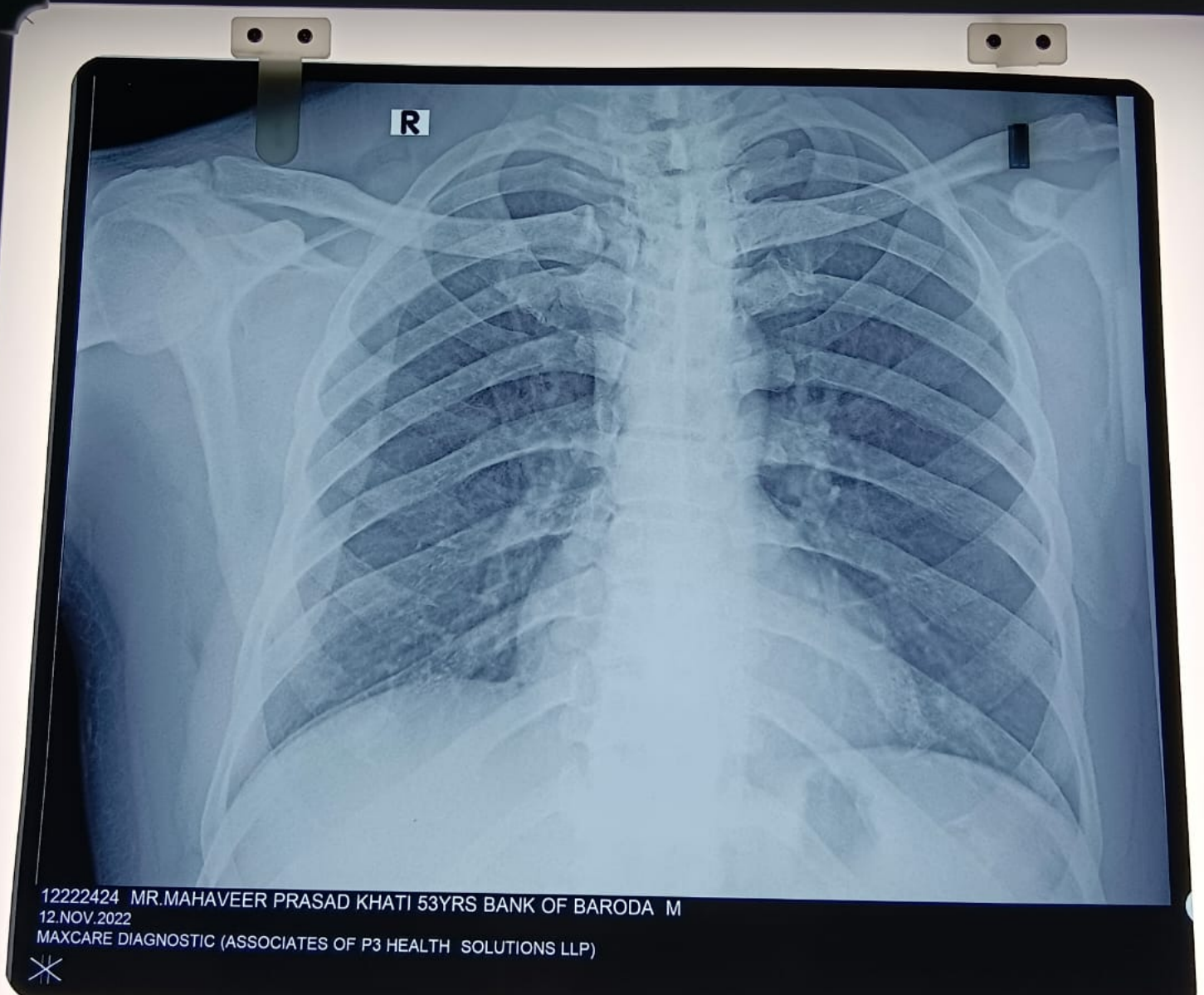
B-14,Vidhyadhar Nagar Enclave,Phase -2,Jaipur

1322224/MR MAHAVEER PRASAD KHATI 53 Yrs/Male 0 Kg/0 Cms

Date: 12-Nov-2022 12:41:25 PM

Average




R
12222424 MR.MAHAVEER PRASAD KHATI 53YRS BANK OF BARODA M
12.NOV.2022
MAXCARE DIAGNOSTIC (ASSOCIATES OF P3 HEALTH SOLUTIONS LLP)