

**DEPARTMENT OF LABORATORY MEDICINE**

Final Report

Patient Name : Mr Mithun B P MRN : 2015000000048 Gender/Age : MALE , 38y (30/07/1984)

Collected On : 08/04/2023 08:43 AM Received On : 08/04/2023 12:21 PM Reported On : 08/04/2023 03:13 PM

Barcode : 022304080445 Specimen : Whole Blood - ESR Consultant : EXTERNAL(EXTERNAL)

Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9980060726

**HEMATOLOGY**

Test	Result	Unit	Biological Reference Interval
<b>Erythrocyte Sedimentation Rate (ESR)</b> (Westergren Method)	1	mm/1hr	0.0-10.0

**Interpretation Notes**

- ESR high - Infections, chronic disorders,, plasma cell dyscrasias.

**DISCLAIMER: All the laboratory findings should mandatorily interpreted in correlation with clinical findings by a medical expert**
**COMPLETE BLOOD COUNT (CBC)**

Haemoglobin (Hb%) (Photometric Measurement)	14.0	g/dL	13.0-17.0
Red Blood Cell Count (Electrical Impedance)	4.82	million/ $\mu$ l	4.5-5.5
PCV (Packed Cell Volume) / Hematocrit (Calculated)	42.5	%	40.0-50.0
MCV (Mean Corpuscular Volume) (Derived)	88.1	fL	83.0-101.0
MCH (Mean Corpuscular Haemoglobin) (Calculated)	29.1	pg	27.0-32.0
MCHC (Mean Corpuscular Haemoglobin Concentration) (Calculated)	33.1	%	31.5-34.5
Red Cell Distribution Width (RDW) (Derived)	13.5	%	11.6-14.0
Platelet Count (Electrical Impedance Plus Microscopy)	170	$10^3/\mu$ L	150.0-450.0
Total Leucocyte Count(WBC) (Electrical Impedance)	4.3	$10^3/\mu$ L	4.0-10.0

**DIFFERENTIAL COUNT (DC)**

Neutrophils (VCS Technology Plus Microscopy)	49.7	%	40.0-75.0
Lymphocytes (VCS Technology Plus Microscopy)	36.1	%	20.0-40.0



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Monocytes (VCS Technology Plus Microscopy)	6.1	%	2.0-10.0
Eosinophils (VCS Technology Plus Microscopy)	<b>7.8 H</b>	%	1.0-6.0
Basophils (VCS Technology Plus Microscopy)	0.3	%	0.0-2.0
Absolute Neutrophil Count (Calculated)	2.14	$\times 10^3$ cells/ $\mu$ l	2.0-7.0
Absolute Lymphocyte Count (Calculated)	1.56	$\times 10^3$ cells/ $\mu$ l	1.0-3.0
Absolute Monocyte Count (Calculated)	0.27	$\times 10^3$ cells/ $\mu$ l	0.2-1.0
Absolute Eosinophil Count (Calculated)	0.34	$\times 10^3$ cells/ $\mu$ l	0.02-0.5
Absolute Basophil Count (Calculated)	0.02	-	-

*As per the recommendation of International Council for Standardization in Hematology, the differential counts are additionally being reported as absolute numbers.*

**Interpretation Notes**

- Haemoglobin , RBC Count and PCV: If below reference range, indicates Anemia. Further evaluation is suggested .
- RBC Indices aid in typing of anemia.
- WBC Count: If below reference range, susceptibility to infection.
- If above reference range- Infection\*
- If very high in lakhs-Leukemia
- Neutrophils -If above reference range-acute infection, mostly bacterial
- Lymphocytes -If above reference range-chronic infection/ viral infection
- Monocytes -If above reference range- TB,Typhoid,UTI
- Eosinophils -If above reference range -Allergy,cough,Common cold,Asthma & worms
- Basophils - If above reference range, Leukemia, allergy
- Platelets: If below reference range- bleeding disorder, Dengue, drug- induced, malignancies
- \* In bacterial infection with fever total WBC count increases.
- Eg Tonsillitis,Sinusitis,Bronchitis,Pneumonia,Appendicitis,UTI -12000-25000 cells/cumm.
- In typhoid and viral fever WBC may be normal.

**DISCLAIMER:**All the laboratory findings should mandatorily interpreted in correlation with clinical findings by a medical expert.



Dr. Sudarshan Chougule  
 MBBS, MD, Pathology  
 Consultant & Head - Hematology & Flow Cytometry



Patient Name : Mr Mithun B P MRN : 20150000000048 Gender/Age : MALE , 38y (30/07/1984)

**BIOCHEMISTRY**

Test	Result	Unit	Biological Reference Interval
<b>Fasting Blood Sugar (FBS)</b> (Colorimetric - Glucose Oxidase Peroxidase)	89	mg/dL	70 to 99 : Normal 100 to 125 : Pre-diabetes =>126 : Diabetes ADA standards 2020
<b>Post Prandial Blood Sugar (PPBS)</b> (Colorimetric - Glucose Oxidase Peroxidase)	103	mg/dL	70 to 139 : Normal 140 to 199 : Pre-diabetes =>200 : Diabetes ADA standards 2020
<b>HBA1C</b>			
HbA1c (HPLC NGSP Certified)	5.1	%	Normal: 4.0-5.6 Prediabetes: 5.7-6.4 Diabetes: => 6.5 ADA standards 2020
Estimated Average Glucose (Calculated)	99.67	-	-

**Interpretation:**

- HbA1C above 6.5% can be used to diagnose diabetes provided the patient has symptoms. If the patient does not have symptoms with HbA1C>6.5%, repeat measurement on further sample. If the repeat test result is <6.5%, consider as diabetes high risk and repeat measurement after 6 months.
- HbA1C measurement is not appropriate in diagnosing diabetes in children, suspicion of type 1 diabetes, symptoms of diabetes for less than 2 months, pregnancy, hemoglobinopathies, medications that may result sudden increase in glucose, anemia, renal failure, HIV infection, malignancies, severe chronic hepatic, and renal disease.
- Any sample with >15% should be suspected of having a haemoglobin variant.

**SERUM CREATININE**

Serum Creatinine (Two Point Rate - Creatinine Aminohydrolase)	0.89	mg/dL	0.66-1.25
eGFR (Calculated)	95.7	mL/min/1.73m <sup>2</sup>	Indicative of renal impairment < 60 Note:eGFR is inaccurate for Hemodynamically unstable patients eGFR is not applicable for less than 18 years of age.
<b>Blood Urea Nitrogen (BUN)</b> (Endpoint /Colorimetric - Urease)	9	mg/dL	9.0-20.0
<b>Serum Uric Acid</b> (Colorimetric - Uricase,Peroxidase)	5.1	mg/dL	3.5-8.5
<b>LIPID PROFILE (CHOL,TRIG,HDL,LDL,VLDL)</b>			
Cholesterol Total (Colorimetric - Cholesterol Oxidase)	180	mg/dL	Desirable: < 200 Borderline High: 200-239 High: > 240

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Triglycerides (Colorimetric - Lip/Glycerol Kinase)	<b>237 H</b>	mg/dL	Normal: < 150 Borderline: 150-199 High: 200-499 Very High: > 500
HDL Cholesterol (HDLC) (Colorimetric: Non HDL Precipitation Phosphotungstic Acid Method)	<b>29 L</b>	mg/dL	40.0-60.0
Non-HDL Cholesterol (Calculated)	<b>151.0 H</b>	mg/dL	Desirable: < 130 Above Desirable: 130-159 Borderline High: 160-189 High: 190-219 Very High: => 220
LDL Cholesterol (Colorimetric)	<b>100 L</b>	mg/dL	Optimal: < 100 Near to above optimal: 100-129 Borderline High: 130-159 High: 160-189 Very High: > 190
VLDL Cholesterol (Calculated)	<b>47.4 H</b>	mg/dL	0.0-40.0
Cholesterol /HDL Ratio (Calculated)	<b>6.3 H</b>	-	0.0-5.0
<b>LIVER FUNCTION TEST(LFT)</b>			
Bilirubin Total (Colorimetric -Diazo Method)	0.50	mg/dL	0.2-1.3
Conjugated Bilirubin (Direct) (Dual Wavelength - Reflectance Spectrophotometry)	0.10	mg/dL	0.0-0.3
Unconjugated Bilirubin (Indirect) (Calculated)	0.4	mg/dL	0.0-1.1
Total Protein (Colorimetric - Biuret Method)	7.40	gm/dL	6.3-8.2
Serum Albumin (Colorimetric - Bromo-Cresol Green)	4.20	gm/dL	3.5-5.0
Serum Globulin (Calculated)	3.2	gm/dL	2.0-3.5
Albumin To Globulin (A/G)Ratio (Calculated)	1.32	-	1.0-2.1
SGOT (AST) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	28	U/L	17.0-59.0
SGPT (ALT) (Multipoint-Rate With P-5-P (pyridoxal-5-phosphate))	26	U/L	<50.0
Alkaline Phosphatase (ALP) (Multipoint-Rate - P-nitro Phenyl Phosphate, AMP Buffer)	49	U/L	38.0-126.0



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Gamma Glutamyl Transferase (GGT) (Multipoint 26 U/L 15.0-73.0  
Rate - L-glutamyl-p-nitroanilide ( Szasz Method))

**Interpretation Notes**

- Indirect Bilirubin result is a calculated parameter (Indirect Bilirubin = Total Bilirubin - Direct Bilirubin). Indirect bilirubin result includes the delta bilirubin fraction also. Delta Bilirubin is the bilirubin which is covalently bound to albumin. Delta Bilirubin is not expected to be present in healthy adults or neonates.

**THYROID PROFILE (T3, T4, TSH)**

Tri Iodo Thyronine (T3) (Enhanced Chemiluminescence)	1.03	ng/mL	0.97-1.69
Thyroxine (T4) (Enhanced Chemiluminescence)	10.8	µg/dl	5.53-11.0
TSH (Thyroid Stimulating Hormone) (Enhanced Chemiluminescence)	4.046	µIU/mL	0.4-4.049



Mrs. Latha B S  
MSc, Mphil, Biochemistry  
Incharge, Consultant Biochemistry



Dr. Anushre Prasad  
MBBS, MD, Biochemistry  
Consultant Biochemistry

**CLINICAL PATHOLOGY**

Test	Result	Unit	Biological Reference Interval
Urine For Sugar (Post Prandial) (Enzyme Method (GOD POD))	Not Present	-	-

**STOOL ROUTINE EXAMINATION**

**PHYSICAL EXAMINATION**

Colour	Brownish	-	-
Consistency	Semi Solid	-	-
Mucus	Absent	-	-

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**CHEMICAL EXAMINATION**

Stool For Occult Blood (Standard Guaiac Method)    **Negative**    -    -  
 Reaction    **Alkaline**    -    -

**MICROSCOPE EXAMINATION**

Ova    **Not Seen**    -    -  
 Cyst Of Protozoa    **Not Seen**    -    -  
 Pus Cells    **2-3**    /hpf    **0-5**  
**Urine For Sugar (Fasting)** (Enzyme Method (GOD    **Not Present**    -    -  
 POD))

--End of Report--

*Hema S*

Dr. Hema S  
 MD, DNB, Pathology  
 Associate Consultant

**Note**

- Abnormal results are highlighted.
- Results relate to the sample only.
- Kindly correlate clinically.  
 (Lipid Profile, -> Auto Authorized)
- (CR, -> Auto Authorized)
- (LFT, -> Auto Authorized)
- (, -> Auto Authorized)
- (Uric Acid, -> Auto Authorized)
- (Blood Urea Nitrogen (Bun), -> Auto Authorized)
- (Fasting Blood Sugar (FBS), -> Auto Authorized)





**DEPARTMENT OF LABORATORY MEDICINE**

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Patient Name : Mr Mithun B P MRN : 2015000000048 Gender/Age : MALE , 38y (30/07/1984)  
 Collected On : 08/04/2023 08:43 AM Received On : 08/04/2023 12:18 PM Reported On : 08/04/2023 01:14 PM  
 Barcode : 1B2304080015 Specimen : Whole Blood Consultant : EXTERNAL(EXTERNAL)  
 Sample adequacy : Satisfactory Visit No : OP-001 Patient Mobile No : 9980060726

**NARAYANA HRUDAYALAYA BLOOD CENTRE**

Test	Result	Unit
<b>BLOOD GROUP &amp; RH TYPING</b>		
Blood Group (Column Agglutination Technology)	O	-
RH Typing (Column Agglutination Technology)	Positive	-



Dr. Prathip Kumar B R  
 MBBS,MD, Immunohaematology & Blood Transfusion  
 Consultant

**CLINICAL PATHOLOGY**

Test	Result	Unit	Biological Reference Interval
<b>URINE ROUTINE &amp; MICROSCOPY</b>			
<b>PHYSICAL EXAMINATION</b>			
Colour	Yellow	-	-
Appearance	Clear	-	-
<b>CHEMICAL EXAMINATION</b>			
pH(Reaction) (pH Indicator Method)	5.5	-	4.5-7.5
Sp. Gravity (Refractive Index)	1.004	-	1.002 - 1.030
Protein (Automated Protein Error Or Ph Indicator)	Not Present	-	Not Present
Urine Glucose (Enzyme Method (GOD POD))	Not Present	-	Not Present

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Ketone Bodies (Nitroprusside Method)	Not Present	-	Not Present
Bile Salts (Azo Coupling Method)	Not Present	-	Not Present
Bile Pigment (Bilirubin) (Azo Coupling Method)	Not Present	-	Not Present
Urobilinogen (Azo Coupling Method)	Normal	-	Normal
Urine Leucocyte Esterase (Measurement Of Leukocyte Esterase Activity)	Not Present	-	Not Present
Blood Urine (Peroxidase Reaction)	Not Present	-	Not Present
Nitrite (Gries Method)	Not Present	-	Not Present

**MICROSCOPIC EXAMINATION**

Pus Cells	0.0	/hpf	0-5
RBC	0.0	/hpf	0-4
Epithelial Cells	0.0	/hpf	0-6
Crystals	0.0	/hpf	0-2
Casts	0.00	/hpf	0-1
Bacteria	3.7	/hpf	0-200
Yeast Cells	0.0	/hpf	0-1
Mucus	Not Present	-	Not Present

--End of Report--

*Hema S*

Dr. Hema S  
MD, DNB, Pathology  
Associate Consultant



**ADULT TRANS-THORACIC ECHO REPORT**

**NAME : MR.MITHUN B P**

**AGE/SEX : 38YRS/MALE**

**MRN NO : 20150000000048**

**DATE : 08.04.2023**

**FINAL DIAGNOSIS:**

- NORMAL CHAMBER DIMENSIONS
- NO RWMA
- NORMAL VALVES
- NORMAL PA PRESSURE
- NORMAL RV/LV FUNCTION
- LVEF- 60 %

**MEASUREMENTS**

AO: 29 MM

LVID (d) : 43 MM

IVS (d) : 10 MM

RA : 33 MM

LA: 31 MM

LVID(s) : 29 MM

PW (d) : 10 MM

RV : 26 MM

EF: 60 %

**VALVES**

MITRAL VALVE : NORMAL

AORTIC VALVE : NORMAL

TRICUSPID VALVE : NORMAL

PULMONARY VALVE : NORMAL

**CHAMBERS**

LEFT ATRIUM : NORMAL

RIGHT ATRIUM : NORMAL

LEFT VENTRICLE : NORMAL, NORMAL LV FUNCTION

RIGHT VENTRICLE : NORMAL, TAPSE-19 MM, NORMAL RV FUNCTION

RVOT/LVOT : NORMAL



**SEPTAE**

IVS : INTACT

IAS : INTACT

**GREAT ARTERIES**

AORTA : NORMAL, AORTIC ANNULUS-20 MM, LEFT ARCH

PULMONARY ARTERY : NORMAL

**DOPPLER DATA**

MITRAL VALVE : E/A – 0.7/0.5M/S, MR-TRIVIAL

AORTIC VALVE : PG- 4 MMHG

TRICUSPID VALVE : TR-TRIVIAL , PASP- 25 MMHG

PULMONARY VALVE : PG- 2 MMHG

**WALL MOTION ABNORMALITIES: NO RWMA**

PERICARDIUM : NORMAL

VEGETATION/THROMBUS : ABSENT

**OTHER FINDINGS**

IVC- 14 MM, NORMAL SIZED, COLLAPSIBILITY >50%, RAP -3 MM  
SINUS RHYTHM/ HR- 77 BPM



**GULSUM JAMEEL FATHIMA M**  
**CARDIAC SONOGRAPHER**



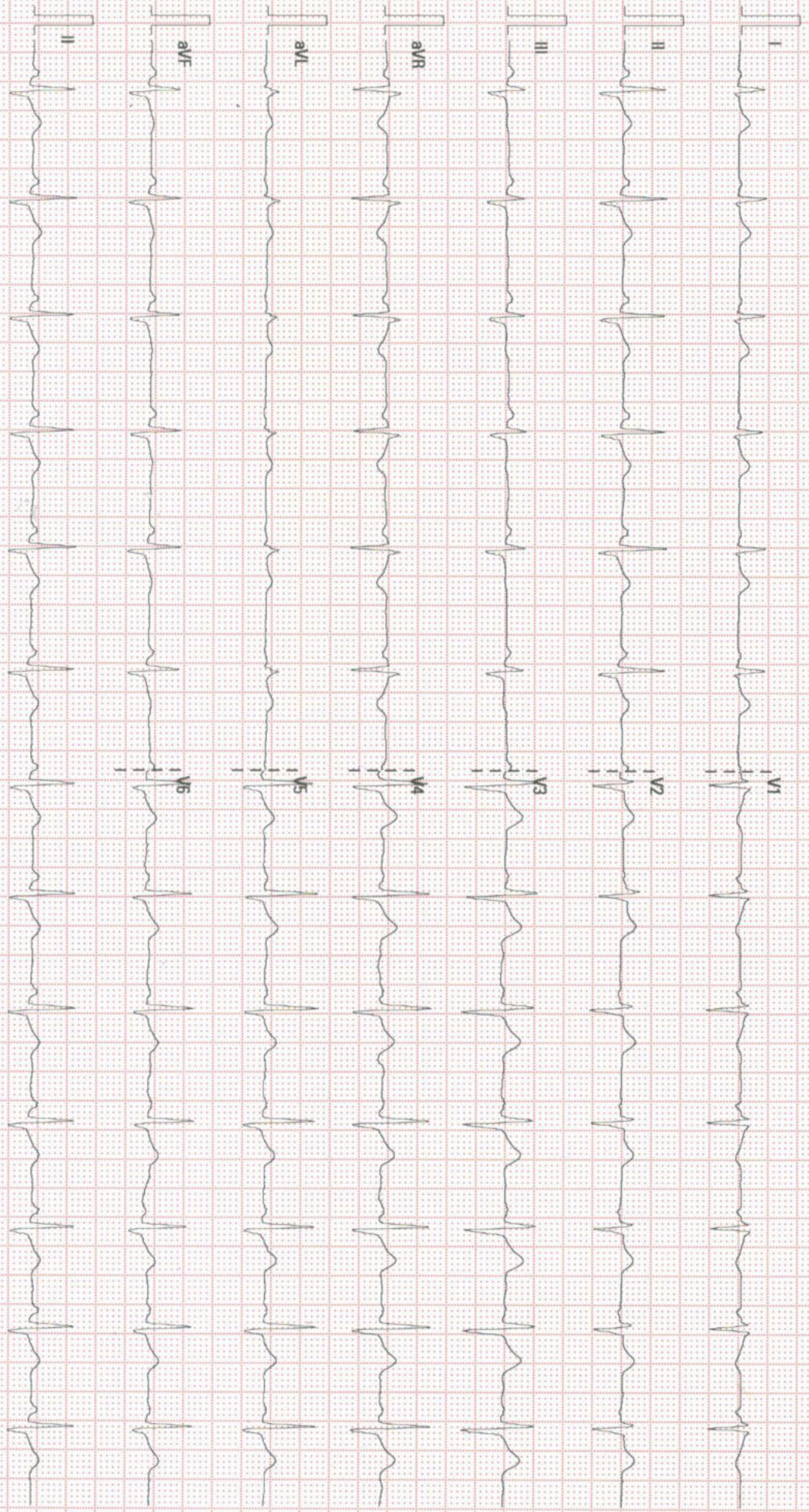


ID: 2015-0048  
Name: MR MITHUN B P  
Age: 38 Years  
Gender: Male

08-04-2023 10:03:56 AM

Vent. Rate	79 bpm
PR Interval	118 ms
QRS Duration	100 ms
QT/QTc Interval	370/403 ms
P/QRS/T Axes	72/39/26 deg

QTc/Hodges



25 mm/s 10 mm/mV 50 Hz BDR 35 Hz

NARAYANA HEALTH JAYANAGAR

02.06.00/V28.4.1

SN.FN-73007176



## EXERCISE STRESS TEST REPORT

Patient Name: MR MITHUN B P,  
Patient ID: 2015-00048  
Height: 172 cm  
Weight: 76.6 kg

DOB: 30.07.1984  
Age: 38yrs  
Gender: Male  
Race:

Study Date: 08.04.2023  
Test Type: Treadmill Stress Test  
Protocol: BRUCE

Referring Physician: EHP  
Attending Physician: DR PRIYA S  
Technician: MS GULSUM JAMEEL FATHIMA M

Medications:  
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Medical History:  
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Reason for Exercise Test:  
Screening for CAD

### Exercise Test Summary

Phase Name	Stage Name	Time in Stage	Speed (mph)	Grade (%)	HR (bpm)	BP (mmHg)	Comment
PRETEST	SUPINE	01:02	1.20	0.00	100	100/60	
EXERCISE	STAGE 1	03:00	1.70	10.00	134	118/66	
	STAGE 2	03:00	2.50	12.00	164	126/70	
	STAGE 3	01:20	3.40	14.00	179	130/70	
RECOVERY		05:02	0.00	0.00	117	120/60	

The patient exercised according to the BRUCE for 7:20 min:s, achieving a work level of Max. METS: 9.00. The resting heart rate of 94 bpm rose to a maximal heart rate of 179 bpm. This value represents 98 % of the maximal, age-predicted heart rate. The resting blood pressure of 100/60 mmHg, rose to a maximum blood pressure of 140/60 mmHg. The exercise test was stopped due to Target heart rate achieved.

### Interpretation

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### Conclusions

GOOD EFFORT TOLERANCE  
NORMAL HR AND BP RESPONSE  
NO ANGINA OR ARRHYTHMIAS  
NO SIGNIFICANT ST-T CHANGES NOTED DURING EXERCISE AND RECOVERY  
IMP:STRESS TEST IS NEGATIVE FOR INDUCIBLE ISCHEMIA

Physician \_\_\_\_\_ Technician \_\_\_\_\_

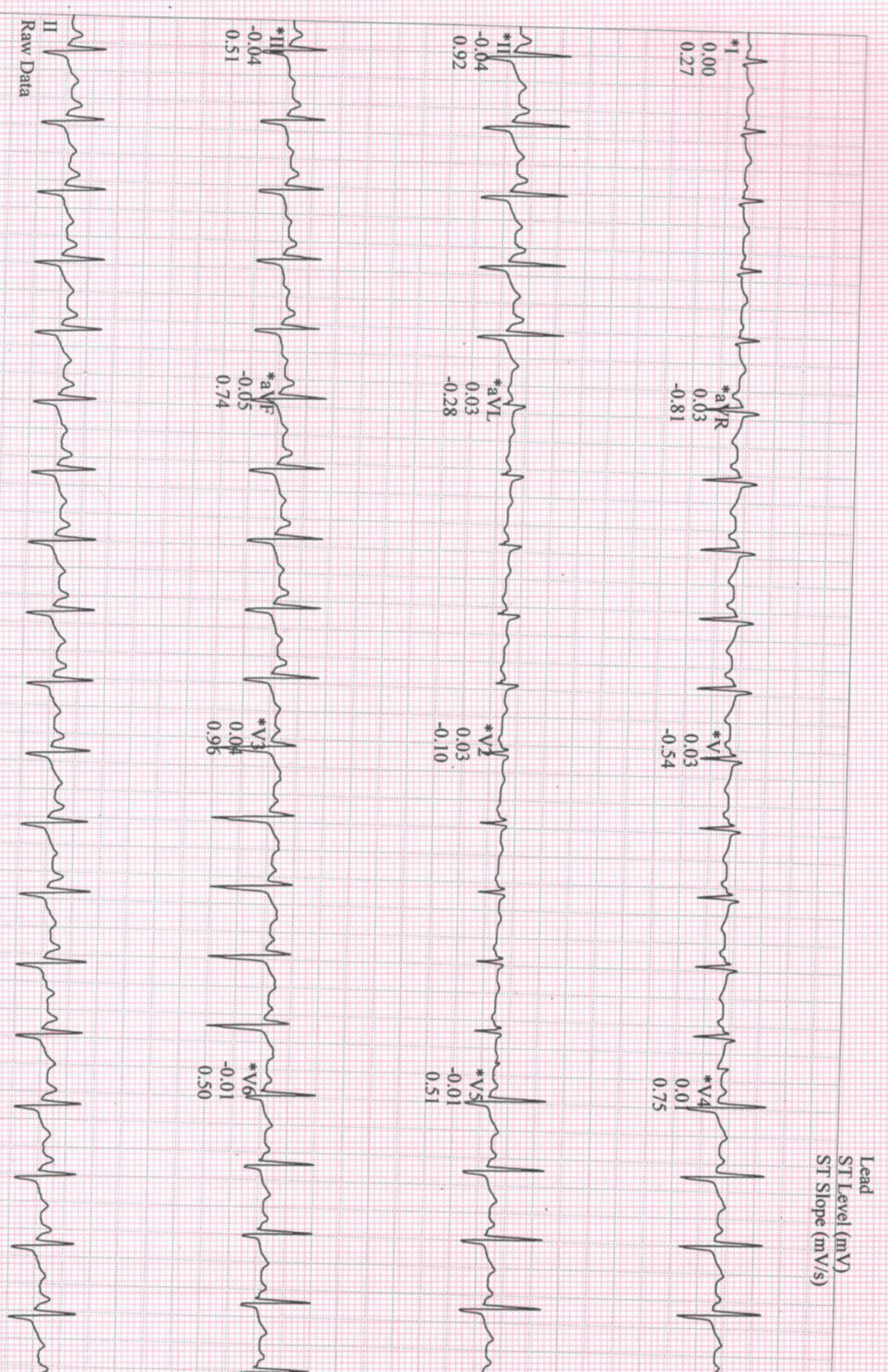


118 bpm  
120/60 mmHg  
RECOVERY #1  
05:00

BRUCE  
0.0 mph  
0.0%

Linked Medians

Narayana Multispecialty C



\*Computer Synthesized Rhythms

GE CardioSoft V673 (2)  
25 mm/s 10 mm/mV 50Hz 0.01 - 20Hz S+ HR(V5,V4)

Start of Test: 11:29:51



<b>Patient Name</b>	MR.MITHUN B P	<b>Requested By</b>	EHP
<b>MRN</b>	20150000000048	<b>Procedure DateTime</b>	08-04-2023 10:40
<b>Age/Sex</b>	38Y 8M/Male	<b>Hospital</b>	NH-JAYANAGAR

### **CHEST RADIOGRAPH (PA VIEW)**

**CLINICAL DETAILS:** For health checkup.

#### **FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

#### **IMPRESSION:**

- **No significant abnormality detected.**



Dr Arpita Sanikop  
Junior Consultant

\* **This is a digitally signed valid document.** Reported Date/Time: 08-04-2023 17:32