

Suburban Diagnostics Lullanagar

Patient Details Date: 03-Nov-22 Time: 10:32:59 AM
Name: MAHESH SIDDARAM SWAMY ID: 2230713848
Age: 35 y **Sex:** M **Height:** 171 cms. **Weight:** 68 Kg.
Clinical History: HTN SINCE 3 YEARS

Medications: ON MEDICATION

Test Details

Protocol: Bruce **Pr.MHR:** 185 bpm **THR:** 166 (90 % of Pr.MHR) bpm
Total Exec. Time: 8 m 45 s **Max. HR:** 166 (90% of Pr.MHR) bpm **Max. Mets:** 10.20
Max. BP: 138 / 96 mmHg **Max. BP x HR:** 22908 mmHg/min **Min. BP x HR:** 6720 mmHg/min
Test Termination Criteria: Target HR attained

Protocol Details

Stage Name	Stage Time (min : sec)	Mets	Speed (mph)	Grade (%)	Heart Rate (bpm)	Max. BP (mm/Hg)	Max. ST Level (mm)	Max. ST Slope (mV/s)
Supine	0 : 11	1.0	0	0	89	120 / 80	0.00 I	0.00 II
Standing	0 : 7	1.0	0	0	84	120 / 80	-0.42 aVR	1.42 II
Hyperventilation	0 : 7	1.0	0	0	85	120 / 80	-0.42 aVR	1.42 II
1	3 : 0	4.6	1.7	10	116	124 / 84	-0.85 aVR	2.12 II
2	3 : 0	7.0	2.5	12	139	128 / 88	-1.27 III	3.54 V4
Peak Ex	2 : 45	10.2	3.4	14	166	138 / 96	-2.12 III	3.89 II
Recovery(1)	1 : 0	1.8	1	0	126	138 / 96	-1.27 III	4.95 V4
Recovery(2)	1 : 0	1.0	0	0	122	138 / 96	-0.85 aVR	3.89 V4
Recovery(3)	1 : 0	1.0	0	0	104	138 / 96	-3.61 V6	2.48 V4
Recovery(4)	0 : 7	1.0	0	0	103	138 / 96	-0.85 III	1.77 II

Interpretation

The patient exercised according to the Bruce protocol for 8 m 45 s achieving a work level of Max. METS : 10.20. Resting heart rate initially 89 bpm, rose to a max. heart rate of 166 (90% of Pr.MHR) bpm. Resting blood Pressure 120 / 80 mmHg, rose to a maximum blood pressure of 138 / 96 mmHg.

Good Effort Tolerance.

No Angina/Arrhythmia/Dyspnea

ST depression noted in Inferior & Lateral Leads in Various Stages and recovery.

Stress Test is **BORDERLINE POSITIVE** for Inducible Myocardial Ischemia.

Needs Further Evaluation.

Vit B12, Homocystine & Clinical Correlation.

Disclaimer:

Negative Stress Test does not rule out Coronary Artery Diseases.

Positive Test is suggestive but not confirmatory of Coronary Artery Disease.

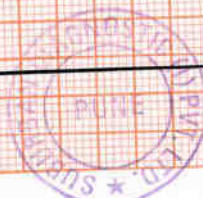
Hence clinical correlation is mandatory.

Ref. Doctor: BOB

(Summary Report edited by user)


 Doctor: DR. MILIND SHINDE

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Dr. MILIND SHINDE
 MBBS, DNB Medicine
 Reg. No. 2011/05/1544



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 0 m 0 s

Stage Time : 0 m 5 s

HR: 89 bpm

Stage: Supine

Speed: 0 mph

Grade: 0 %

(THR: 166 bpm)

B.P: 120 / 80

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

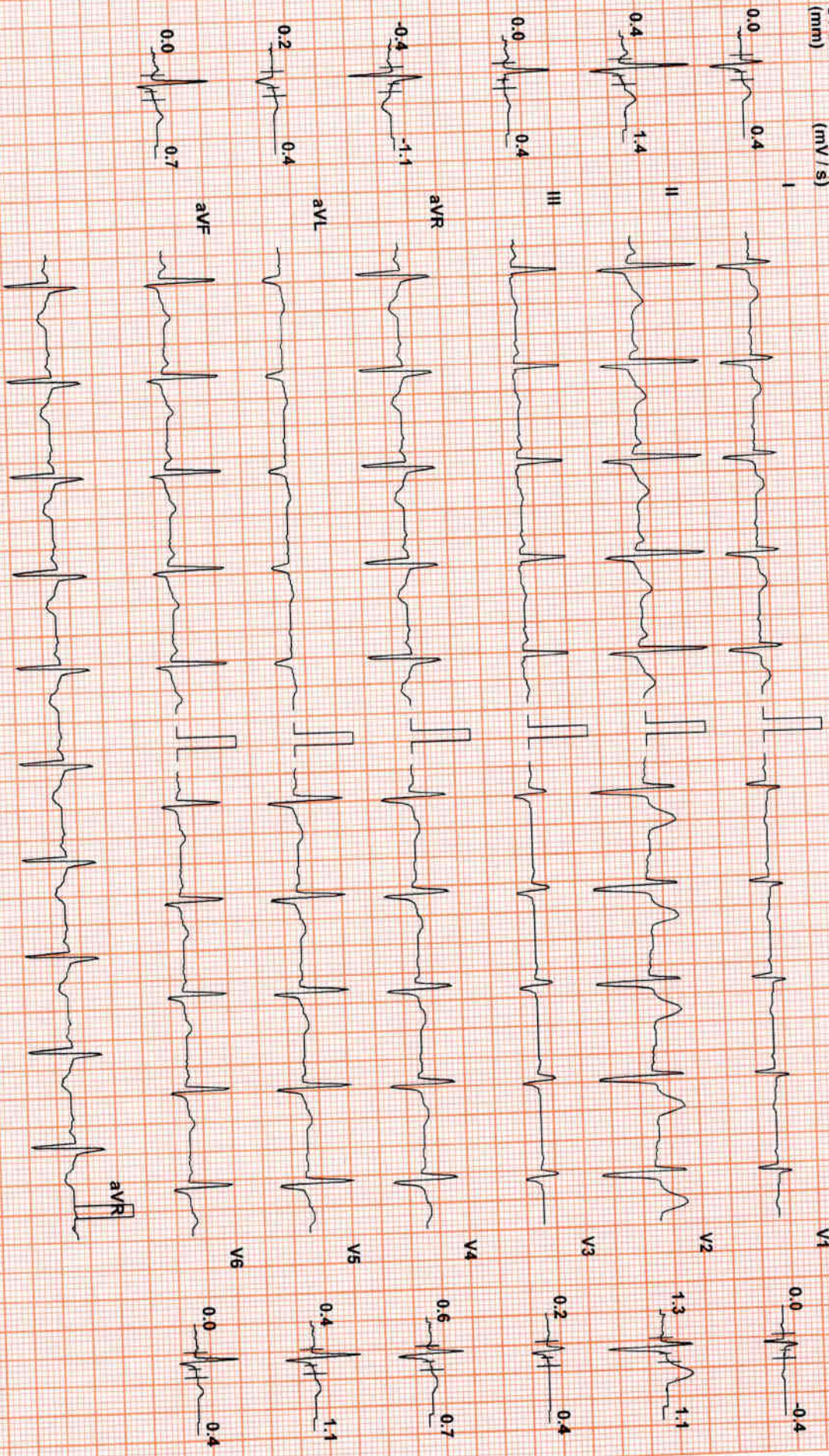


Chart Speed: 25 mm/sec
Schiller Spandan V 4.51

Filter: 35 Hz

Mains Filtr: ON

Amp: 10 mm

ISO = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 0 m 0 s

Stage Time : 0 m 1 s

HR: 84 bpm

Stage: Standing

Speed: 0 mph

Grade: 0 %

(THR: 166 bpm)

B.P: 120/80

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

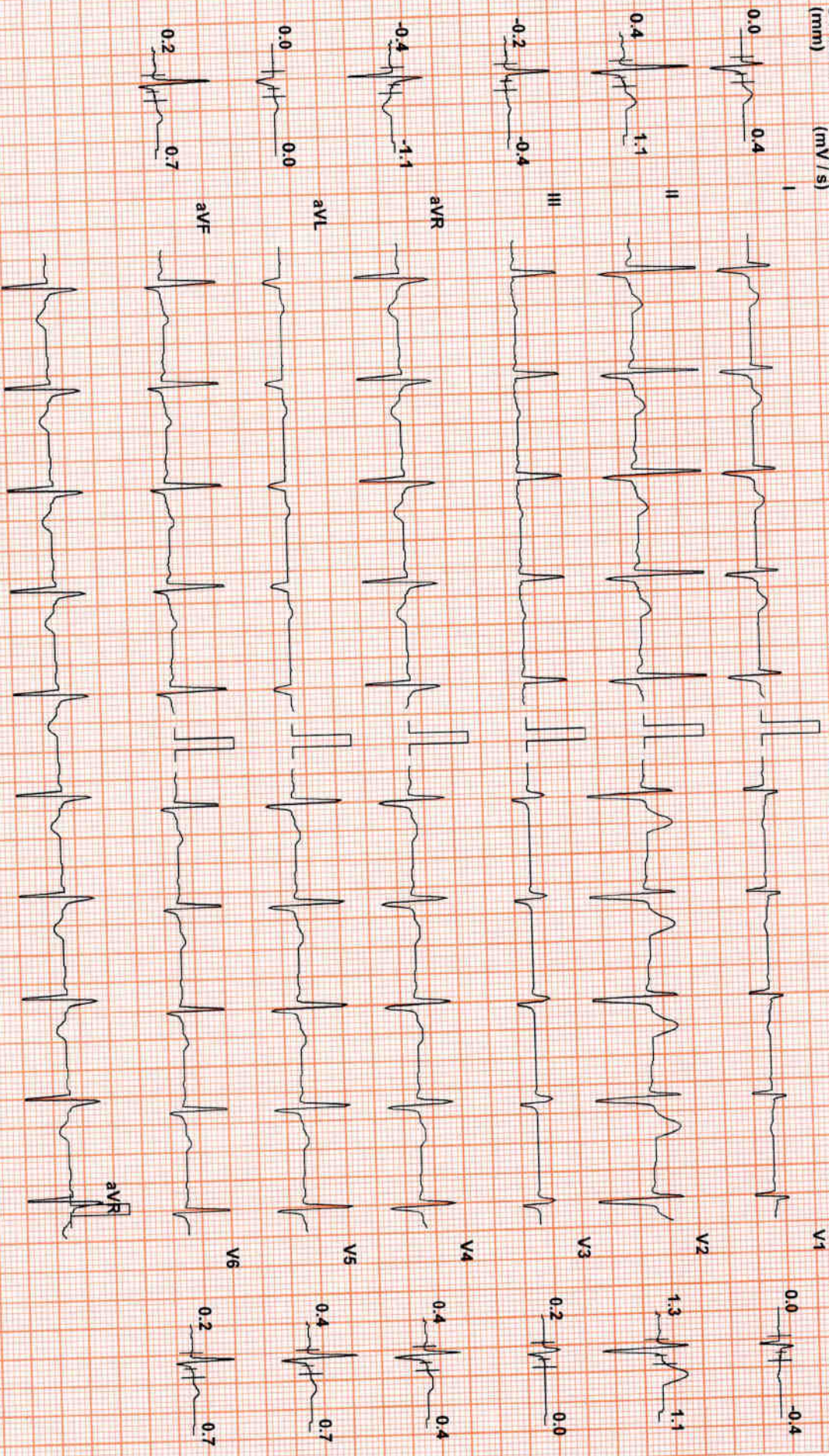


Chart Speed: 25 mm/sec
Schlitz Spandan V 4.51

Filter: 35 Hz

Mains Filt: ON

Amp: 10 mm

iso = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



Suburban Diagnostics Lullanagar

MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 0 m 0 s

Stage Time : 0 m 1 s

HR: 85 bpm

Stage: Hyperventilation

Speed: 0 mph

Grade: 0 %

(THR: 166 bpm)

B.P: 120 / 80

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

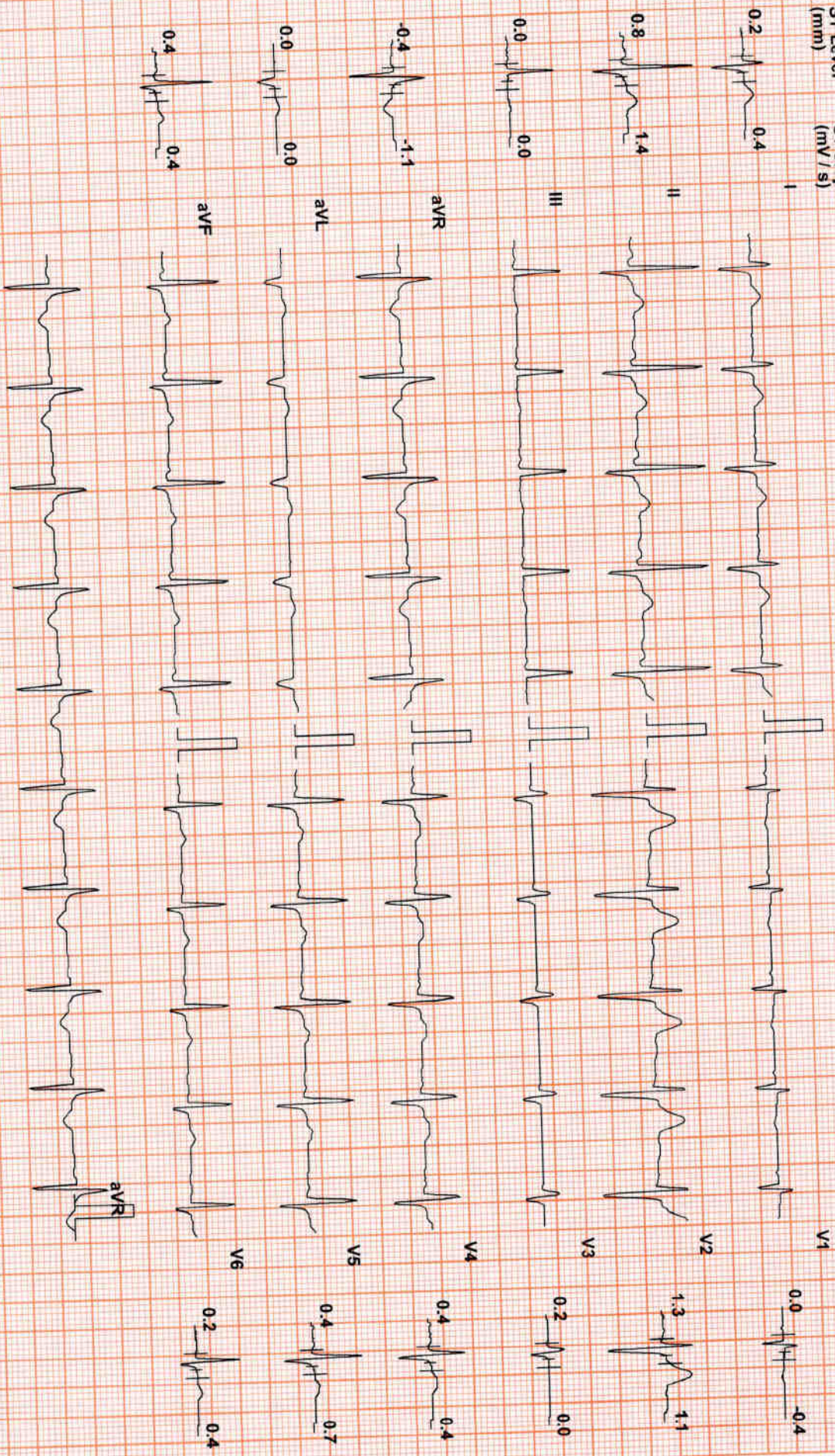


Chart Speed: 25 mm/sec
Schiller Spandam V 4.51

Filter: 35 Hz

Mains Filtr: ON

Amp: 10 mm

ISO = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 2 m 54 s

Stage Time : 2 m 54 s

HR: 117 bpm

Stage: 1

Speed: 1.7 mph

Grade: 10 %

(THR: 166 bpm)

B.P: 124 / 84

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

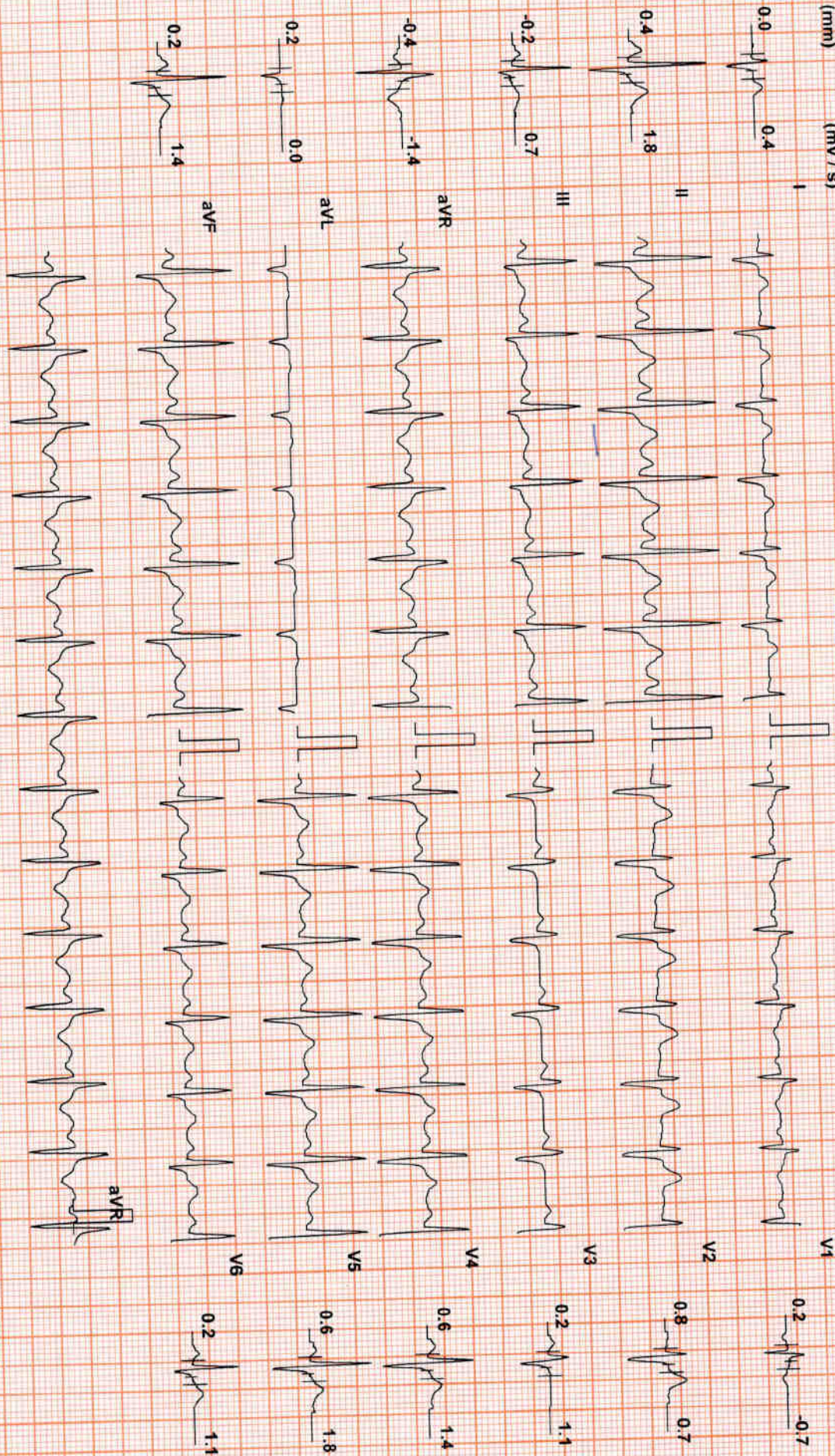


Chart Speed: 25 mm/sec
Schiller Spandax V 4.51

Filter: 35 Hz

Mains Filt: ON

Amp: 10 mm

iso = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 5 m 54 s Stage Time : 2 m 54 s

HR: 139 bpm

Stage: 2

Speed: 2.5 mph

Grade: 12 %

(THR: 166 bpm)

B.P: 128 / 88

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

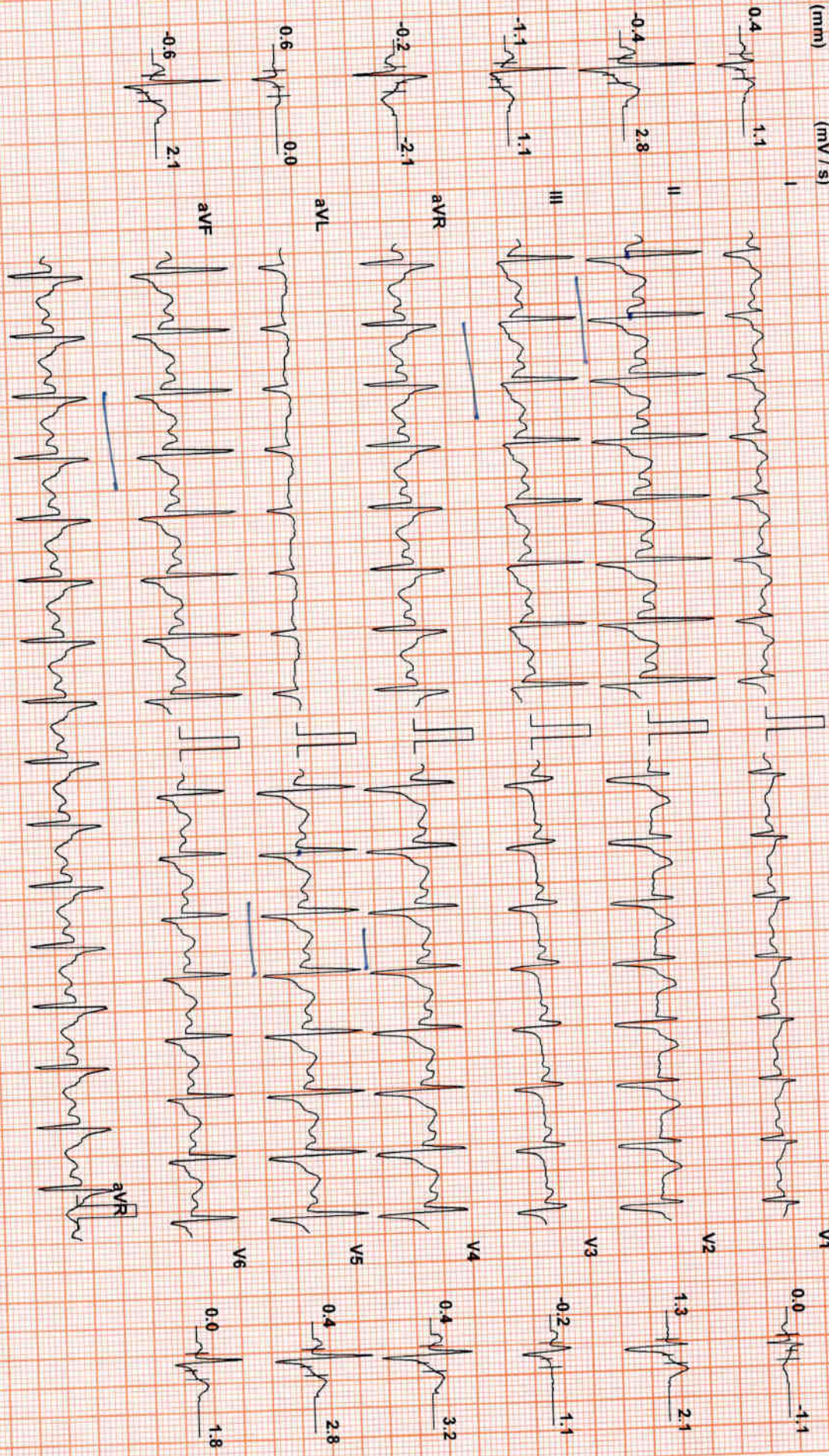


Chart Speed: 25 mm/sec
Schiller Spender V 4.51

Filter: 35 Hz

Mains Fil: ON

Amp: 10 mm

ISO = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 8 m 39 s Stage Time : 2 m 39 s

HR: 165 bpm

Stage: Peak Ex

Speed: 3.4 mph

Grade: 14 %

(THR: 166 bpm)

B.P: 138 / 96

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

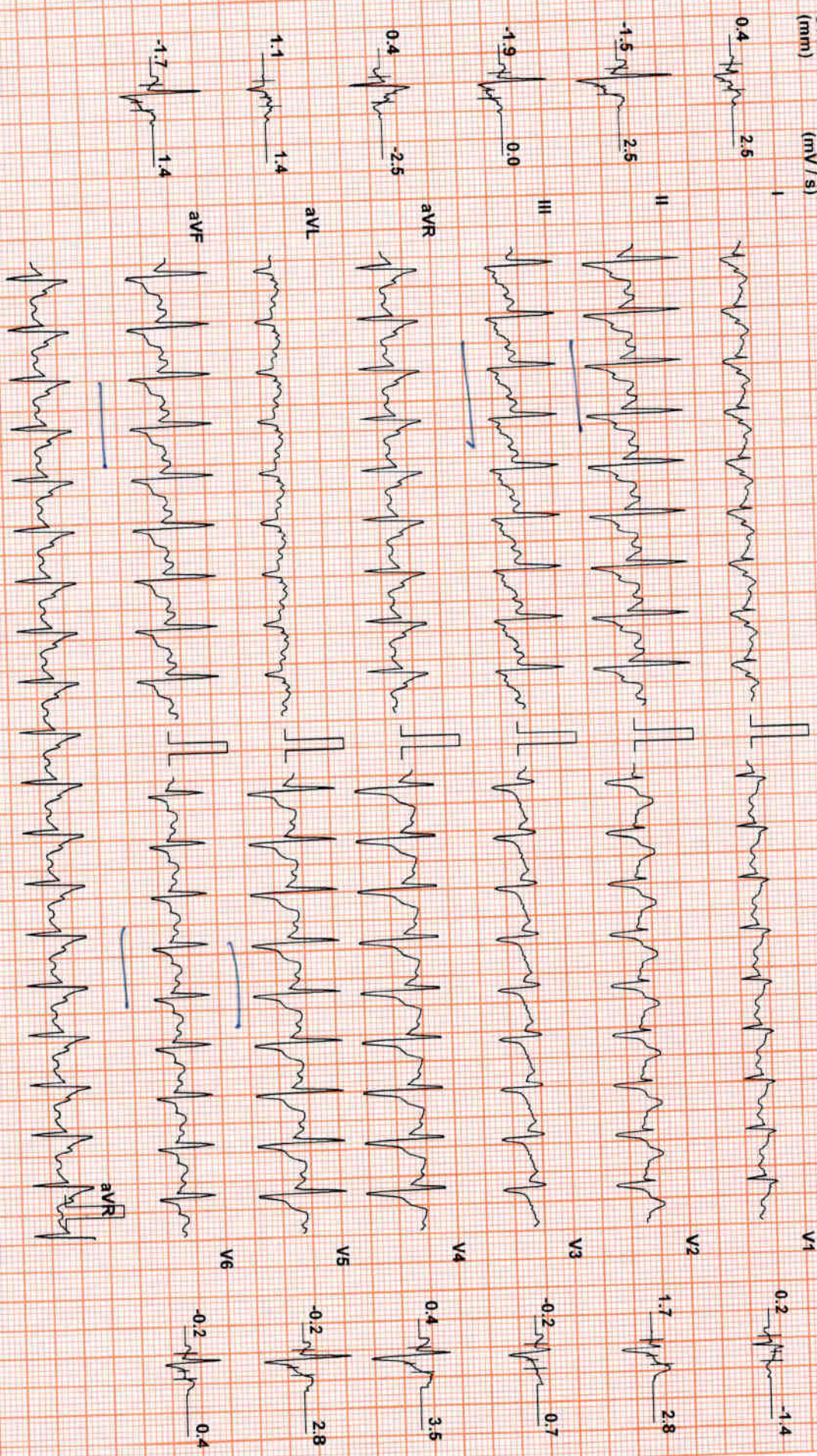


Chart Speed: 25 mm/sec
Schiller Standard V 4.51

Filter: 35 Hz

Mains Filt: ON

Amp: 10 mm

iso = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 8 m 45 s Stage Time : 0 m 54 s

HR: 129 bpm

Stage: Recovery(1)

Speed: 1 mph

Grade: 0 %

(THR: 166 bpm)

B.P: 138 / 96

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

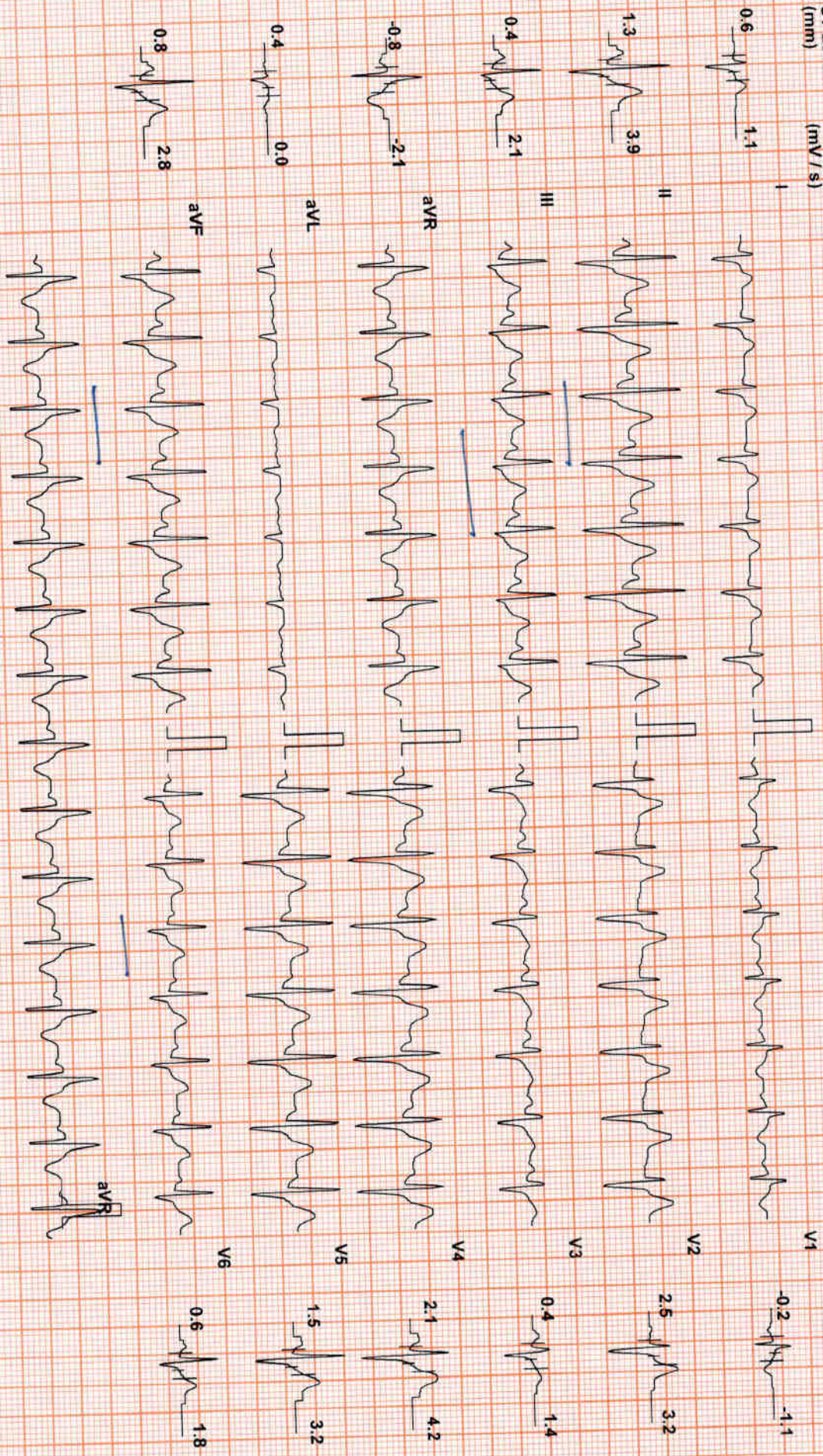


Chart Speed: 25 mm/sec
Schiller Spandax V 4.5f

Filter: 35 Hz

Mains Filtr: ON

Amp: 10 mm

ISO = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 8 m 45 s Stage Time : 0 m 54 s HR: 112 bpm

Stage: Recovery(2)

Speed: 0 mph

Grade: 0%

(THR: 166 bpm)

B.P: 138 / 96

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

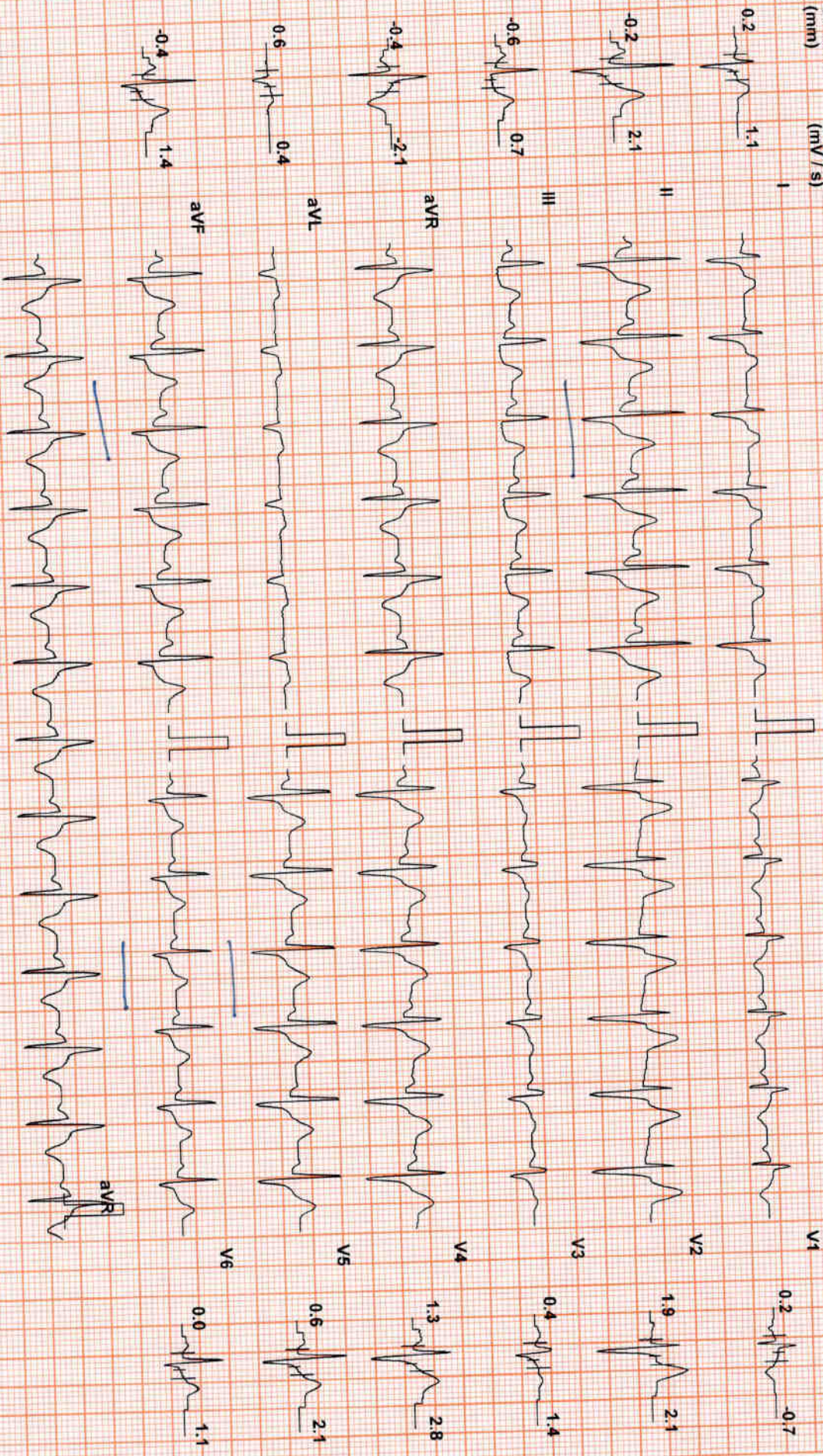


Chart Speed: 25 mm/sec
Schiller Spandan V 4.51

Filter: 35 Hz

Mains Filtr: ON

Amp: 10 mm

ISO = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 8 m 45 s Stage Time : 0 m 54 s HR: 108 bpm

Stage: Recovery(3)

Speed: 0 mph

Grade: 0 %

(THR: 166 bpm)

B.P.: 138 / 96

Protocol: Bruce

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

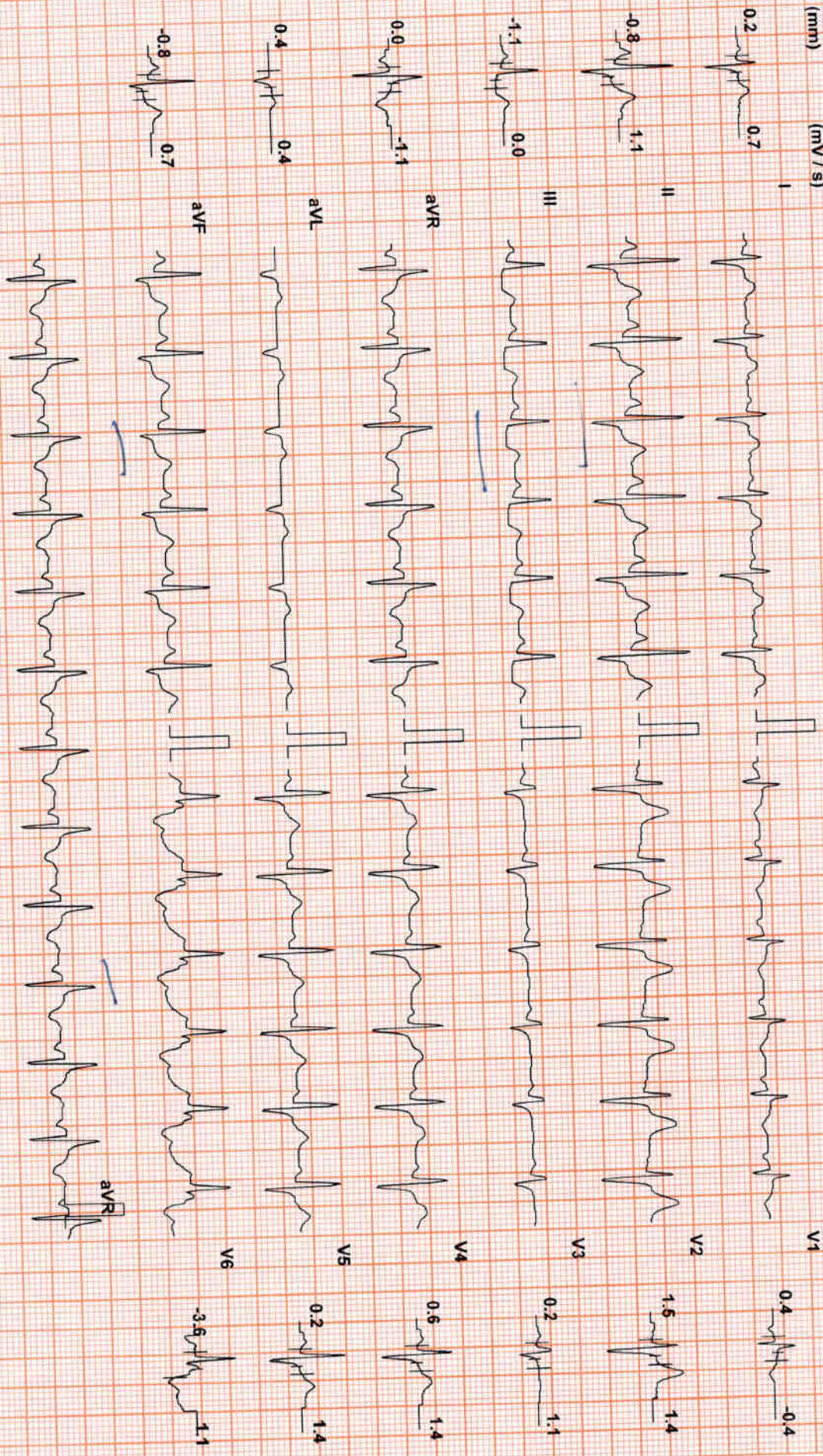


Chart Speed: 25 mm/sec
Schlier Spender V 4.5f

Filter: 35 Hz

Mains Fil: ON

Amp: 10 mm

Iso = R - 60 ms

J = R + 60 ms

Post J = J + 60 ms

Linked Median



Suburban Diagnostics Lullanagar

Test Report

MAHESH SIDDARAM SWAMY (35 M)

ID: 2230713848

Date: 03-Nov-22

Exec Time : 8 m 45 s Stage Time : 0 m 1 s

HR: 104 bpm

Protocol: Bruce

Stage: Recovery(4)

Speed: 0 mph

Grade: 0 %

(THR: 166 bpm)

B.P: 138 / 96

ST Level (mm) ST Slope (mV/s)

ST Level (mm) ST Slope (mV/s)

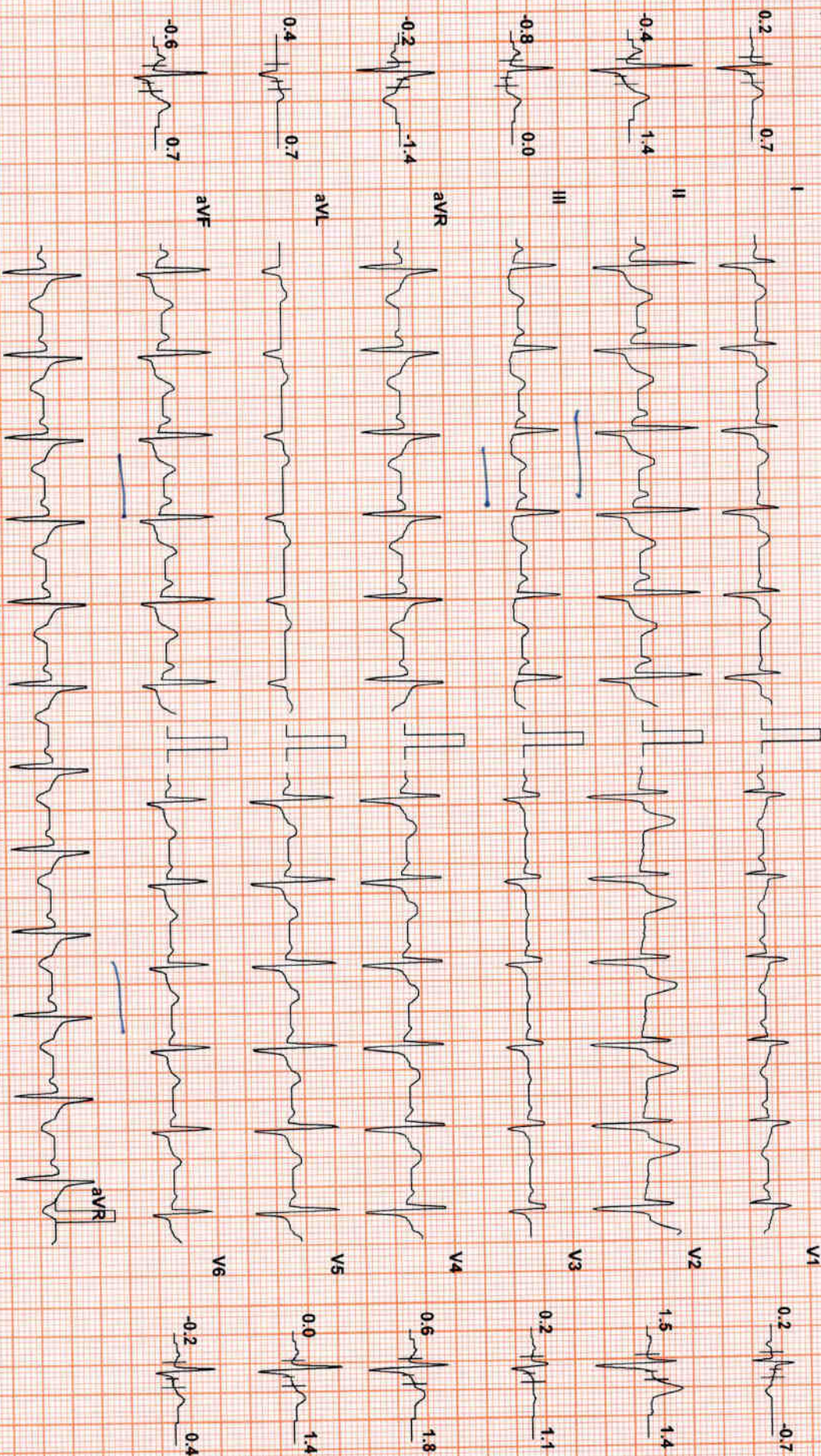


Chart Speed: 25 mm/sec
Schiller Spandan V 4.51

Filter: 35 Hz

Mains Filtr: ON Amp: 10 mm

ISO = R - 60 ms J = R + 60 ms Post J = J + 60 ms

Linked Median

CID# : 2230713848
Name : MR.MAHESH SIDDARAM SWAMY
Age / Gender : 35 Years/Male
Consulting Dr. :-
Reg.Location : Lulla Nagar, Pune (Main Centre)

Collected : 03-Nov-2022 / 09:48
Reported : 03-Nov-2022 / 16:35

PHYSICAL EXAMINATION REPORT

a) Diet : Mixed

b)Addiction : Alcohol Occasional
(HTN Since 3 Years on Medication)

GENERAL EXAMINATION :

a)Height (cms) : 171

b)Weight (kgs) : 68

c)Lymph Nodes : Not Palpable

3) SYSTEMIC EXAMINATION

A) RESPIRATORY SYSTEM

a) Lungs : Clear

b) Trachea : Central

c) Air Entry : Equal

d) Rales : No

d) Others : NAD

B) CARDIOVASCULAR SYSTEM (CVS)

a) Heart Sounds : S1 S2 Normal

b) Murmurs : No

c) Pulse/min : 74

d) B/P (mm of Hg) : 120/80

e) Miscellenous : NAD

PUNE LAB ADDRESS: Seraph Centre, Opp. BSNL Exchange, Shahu College Road, Off Pune-Satara Road, Behind Panchami Hotel, Pune - 411009

CENTRAL PROCESSING LAB: 2nd Floor, Aston, Sundervan Complex, Above Mercedes Showroom, Andheri West, Mumbai - 400053

HEALTHLINE - MUMBAI: 022-6170-0000 | **OTHER CITIES:** 1800-266-4343 | **For Feedback -** customerservice@suburbandiagnosics.com | **www.suburbandiagnosics.com**

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C) ABDOMEN

- a) Liver : Not Palpable
- b) Spleen : Not Palpable
- c) Any other Swelling : No

D) NERVOUS SYSTEM

- a) Ankle Reflex : Normal
- b) Plantars : Flexor

DOCTOR REMARKS :

Uric k/m Blood + + + +
USG AFP : nonobstructing renal calculus.
→ Repeat Uric k/m after 7 day
→ Stress test Borderline positive.
A/w Bil
Hemogram
& further evaluation

*** End Of Report ***



Dr. Milind Shinde
MBBS, DNB, Consulting Physician,
Diabetologist & Echocardiologist

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Age 34 0 0
years months days

Gender Male

Heart Rate 77bpm

Patient Vitals

BP: 120/80 mmHg

Weight: 68 kg

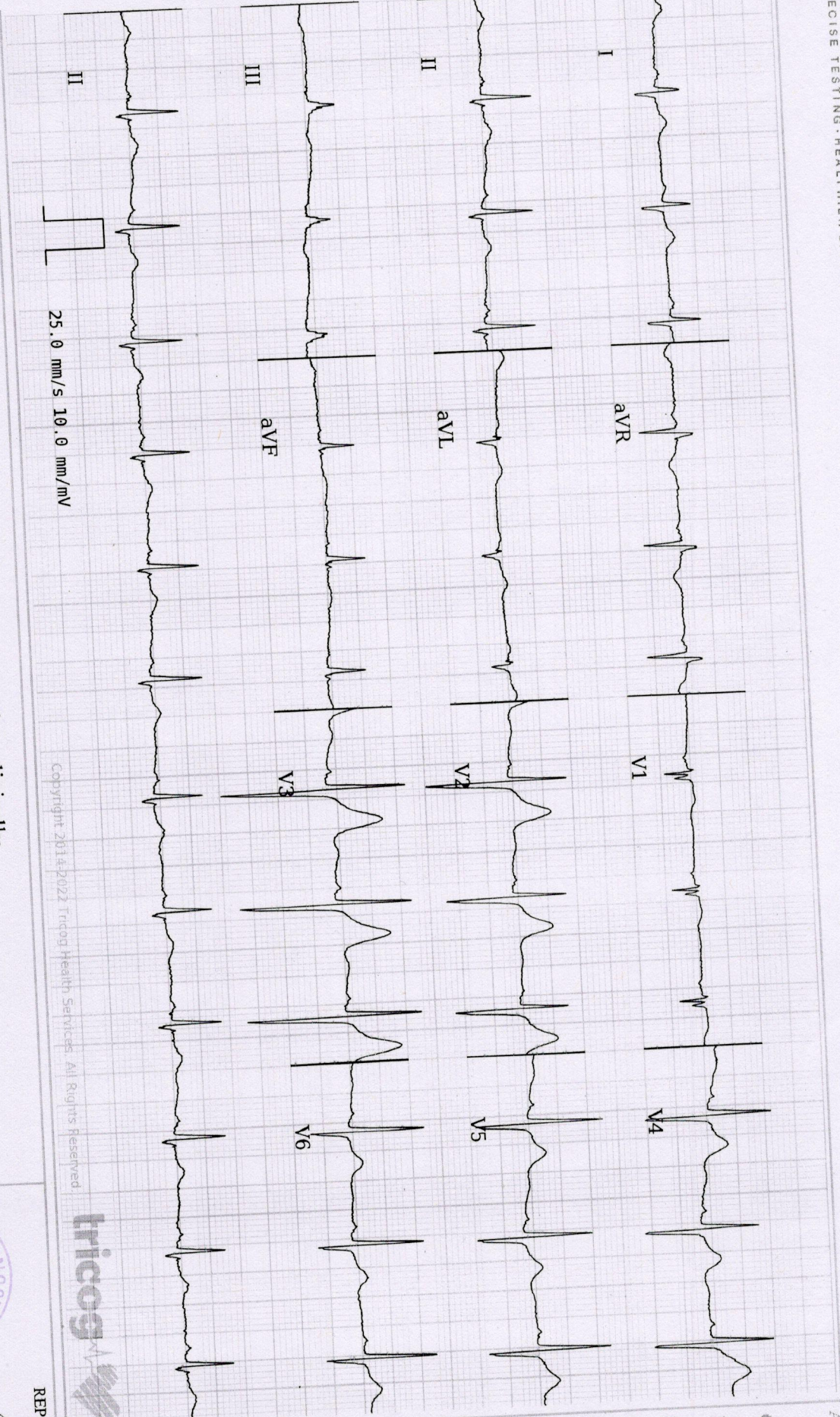
Height: 171 cm

Pulse: NA

SpO2: NA

Resp: NA

Others:



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REPORTED BY

[Signature]

Dr. Milind Shinde
MBBS, DNB Medicine
2011/05/1544

ECG Within Normal Limits: Sinus Rhythm, Normal Axis. Please correlate clinically.



Disclaimer: 1) Analysis in this report is based on ECG alone and should be used as an adjunct to clinical history, symptoms, and results of other invasive and non-invasive tests and must be interpreted by a qualified physician. 2) Patient vitals are as entered by the clinician and not derived from the ECG.

CID : 2230713848
Name : Mr MAHESH SIDDARAM SWAMY
Age / Sex : 35 Years/Male
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Reg. Date : 03-Nov-2022
Reported : 03-Nov-2022 / 10:24

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USG (ABDOMEN + PELVIS)

LIVER : The liver is normal in size, shape and smooth margins.
It shows raised parenchymal echo pattern s/o grade I fatty infiltration.
The intra hepatic biliary and portal radical appear normal.
Evidence of cystic lesion of size 27x23 mm in right lobe of liver.
The main portal vein and CBD appears normal.

GALL BLADDER : The gall bladder is physiologically distended.
The visualized gall bladder appears normal.
No evidence of pericholecystic fluid is seen.

PANCREAS : The pancreas is well visualised and appears normal.
No evidence of solid or cystic mass lesion is noted.

KIDNEYS : Right kidney measures 10.2x3.9 cm. Left kidney measures 10.3x4.7 cm.
3.0 mm calculus is noted at upper and mid pole of right kidney.
Both the kidneys are normal in size, shape and echotexture.

SPLEEN : The spleen is normal in size, shape and echotexture.
No evidence of focal lesion is noted.

URINARY BLADDER : The urinary bladder is well distended.
It shows thin walls and sharp mucosa.
No evidence of calculus is noted.
No mass or diverticulum is seen.

PROSTATE : The prostate is normal in size and echotexture.

Visualized small bowel loops appear non-dilated.
Gaseous distension of large bowel loops.
There is no evidence of any lymphadenopathy or ascitis.

Click here to view images <<ImageLink>>

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IMPRESSION :

- Grade I fatty liver.
- Hepatic cyst.
- Non obstructing right renal calculi.

Advice - Clinical and lab correlation.

-----End of Report-----

This report is prepared and physically checked by Dr Pallavi before dispatch.

P. Rawal.
Dr. PALLAVI RAWAL
MBBS, MD Radiology
Reg No 2013/04/1170

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Page no 2 of 2

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X-RAY CHEST PA VIEW

Both lung fields are clear.

Both costo-phrenic angles are clear.

The cardiac size and shape are within normal limits.

The domes of diaphragm are normal in position and outlines.

The skeleton under review appears normal.

IMPRESSION:

NO SIGNIFICANT ABNORMALITY IS DETECTED.

-----End of Report-----

This report is prepared and physically checked by Dr Pallavi before dispatch.

P. Rawal.
Dr. PALLAVI RAWAL
MBBS, MD Radiology
Reg No 2013/04/1170

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Page no 1 of 1



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Reg. Location : Lulla Nagar, Pune (Main Centre)

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

CBC (Complete Blood Count), Blood

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
<u>RBC PARAMETERS</u>			
Haemoglobin	14.0	13.0-17.0 g/dL	Spectrophotometric
RBC	5.07	4.5-5.5 mil/cmm	Elect. Impedance
PCV	41.5	40-50 %	Calculated
MCV	82	80-100 fl	Calculated
MCH	27.6	27-32 pg	Calculated
MCHC	33.6	31.5-34.5 g/dL	Calculated
RDW	12.6	11.6-14.0 %	Calculated
<u>WBC PARAMETERS</u>			
WBC Total Count	7000	4000-10000 /cmm	Elect. Impedance
<u>WBC DIFFERENTIAL AND ABSOLUTE COUNTS</u>			
Lymphocytes	34.2	20-40 %	
Absolute Lymphocytes	2394.0	1000-3000 /cmm	Calculated
Monocytes	5.2	2-10 %	
Absolute Monocytes	364.0	200-1000 /cmm	Calculated
Neutrophils	56.7	40-80 %	
Absolute Neutrophils	3969.0	2000-7000 /cmm	Calculated
Eosinophils	3.9	1-6 %	
Absolute Eosinophils	273.0	20-500 /cmm	Calculated
Basophils	0.0	0.1-2 %	
Absolute Basophils	00	20-100 /cmm	Calculated
Immature Leukocytes	-		
WBC Differential Count by Absorbance & Impedance method/Microscopy.			
<u>PLATELET PARAMETERS</u>			
Platelet Count	349000	150000-400000 /cmm	Elect. Impedance
MPV	8.3	6-11 fl	Calculated
PDW	13.5	11-18 %	Calculated



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RBC MORPHOLOGY

Hypochromia -
Microcytosis -
Macrocytosis -
Anisocytosis -
Poikilocytosis -
Polychromasia -
Target Cells -
Basophilic Stippling -
Normoblasts -
Others Normocytic, Normochromic
WBC MORPHOLOGY -
PLATELET MORPHOLOGY -
COMMENT -

Specimen: EDTA Whole Blood

ESR, EDTA WB 14 2-15 mm at 1 hr. Westergren

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Lab, Pune Swargate
*** End Of Report ***



Shruti Ramteke
Dr.SHRUTI RAMTEKE
M.B.B.S, DCP (PATH)
Pathologist



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Reg. Location : Lulla Nagar, Pune (Main Centre)

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	97.3	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	92.0	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.71	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.22	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.49	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.2	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.4	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	2.8	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.6	1 - 2	Calculated
SGOT (AST), Serum	18.3	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	16.6	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	21.0	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	87.2	40-130 U/L	Colorimetric
BLOOD UREA, Serum	21.8	12.8-42.8 mg/dl	Kinetic
BUN, Serum	10.2	6-20 mg/dl	Calculated
CREATININE, Serum	0.86	0.67-1.17 mg/dl	Enzymatic



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eGFR, Serum	108	>60 ml/min/1.73sqm	Calculated by MDRD equation (Modification of Diet)
URIC ACID, Serum	5.5	3.5-7.2 mg/dl	Enzymatic
Urine Sugar (Fasting)	Absent	Absent	
Urine Ketones (Fasting)	Absent	Absent	
Urine Sugar (PP)	Absent	Absent	
Urine Ketones (PP)	Absent	Absent	

*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Lab, Pune Swargate
*** End Of Report ***



MC-2463



Shamla Kulkarni
Dr.SHAMLA KULKARNI
M.D.(PATH)
Pathologist



CID : 2230713848
Name : MR.MAHESH SIDDARAM SWAMY
Age / Gender : 35 Years / Male
Consulting Dr. : -
Reg. Location : Lulla Nagar, Pune (Main Centre)

Collected : 03-Nov-2022 / 09:51
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**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
GLYCOSYLATED HEMOGLOBIN (HbA1c)**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	5.9	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	122.6	mg/dl	Calculated

Intended use:

- In patients who are meeting treatment goals, HbA1c test should be performed at least 2 times a year
- In patients whose therapy has changed or who are not meeting glycemic goals, it should be performed quarterly
- For microvascular disease prevention, the HbA1c goal for non pregnant adults in general is Less than 7%.

Clinical Significance:

- HbA1c, Glycosylated hemoglobin or glycated hemoglobin, is hemoglobin with glucose molecule attached to it.
- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of glycosylated hemoglobin in the blood.

Test Interpretation:

- The HbA1c test evaluates the average amount of glucose in the blood over the last 2 to 3 months by measuring the percentage of Glycosylated hemoglobin in the blood.
- HbA1c test may be used to screen for and diagnose diabetes or risk of developing diabetes.
- To monitor compliance and long term blood glucose level control in patients with diabetes.
- Index of diabetic control, predicting development and progression of diabetic micro vascular complications.

Factors affecting HbA1c results:

Increased in: High fetal hemoglobin, Chronic renal failure, Iron deficiency anemia, Splenectomy, Increased serum triglycerides, Alcohol ingestion, Lead/opiate poisoning and Salicylate treatment.

Decreased in: Shortened RBC lifespan (Hemolytic anemia, blood loss), following transfusions, pregnancy, ingestion of large amount of Vitamin E or Vitamin C and Hemoglobinopathies

Reflex tests: Blood glucose levels, CGM (Continuous Glucose monitoring)

References: ADA recommendations, AACC, Wallach's interpretation of diagnostic tests 10th edition.

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Shruti Ramteke

Dr.SHRUTI RAMTEKE
M.B.B.S, DCP (PATH)
Pathologist



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Name : MR.MAHESH SIDDARAM SWAMY
Age / Gender : 35 Years / Male
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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
URINE EXAMINATION REPORT

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
<u>PHYSICAL EXAMINATION</u>			
Color	Yellow	Pale Yellow	-
Reaction (pH)	Acidic (5.0)	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.020	1.001-1.030	Chemical Indicator
Transparency	Slight Hazy	Clear	-
Volume (ml)	40	-	-
<u>CHEMICAL EXAMINATION</u>			
Proteins	Absent	Absent	pH Indicator
Glucose	Absent	Absent	GOD-POD
Ketones	Absent	Absent	Legals Test
Blood	++++	Absent	Peroxidase
Bilirubin	Absent	Absent	Diazonium Salt
Urobilinogen	Normal	Normal	Diazonium Salt
Nitrite	Absent	Absent	Griess Test
<u>MICROSCOPIC EXAMINATION</u>			
Leukocytes(Pus cells)/hpf	1-2	0-5/hpf	
Red Blood Cells / hpf	6-8	0-2/hpf	
Epithelial Cells / hpf	0-1		
Casts	Absent	Absent	
Crystals	Absent	Absent	
Amorphous debris	Absent	Absent	
Bacteria / hpf	8-10	Less than 20/hpf	

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M.B.B.S, DCP (PATH)
Pathologist



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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
BLOOD GROUPING & Rh TYPING

<u>PARAMETER</u>	<u>RESULTS</u>
ABO GROUP	B
Rh TYPING	Positive

NOTE: Test performed by Semi- automated column agglutination technology (CAT)

Specimen: EDTA Whole Blood and/or serum

Clinical significance:

ABO system is most important of all blood group in transfusion medicine

Limitations:

- ABO blood group of new born is performed only by cell (forward) grouping because allo antibodies in cord blood are of maternal origin.
- Since A & B antigens are not fully developed at birth, both Anti-A & Anti-B antibodies appear after the first 4 to 6 months of life. As a result, weaker reactions may occur with red cells of newborns than of adults.
- Confirmation of newborn's blood group is indicated when A & B antigen expression and the isoagglutinins are fully developed at 2 to 4 years of age & remains constant throughout life.
- Cord blood is contaminated with Wharton's jelly that causes red cell aggregation leading to false positive result
- The Hh blood group also known as Oh or Bombay blood group is rare blood group type. The term Bombay is used to refer the phenotype that lacks normal expression of ABH antigens because of inheritance of hh genotype.

References:

1. Denise M Harmening, Modern Blood Banking and Transfusion Practices- 6th Edition 2012. F.A. Davis company. Philadelphia
2. AABB technical manual

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MC-2463

Dr.SHRUTI RAMTEKE
M.B.B.S, DCP (PATH)
Pathologist



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Consulting Dr. : -
Reg. Location : Lulla Nagar, Pune (Main Centre)

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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
LIPID PROFILE

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	188.4	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	130.6	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>/=500 mg/dl	GPO-POD
HDL CHOLESTEROL, Serum	41.3	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Homogeneous enzymatic colorimetric assay
NON HDL CHOLESTEROL, Serum	147.1	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	121.0	Optimal: <100 mg/dl Near Optimal: 100 - 129 mg/dl Borderline High: 130 - 159 mg/dl High: 160 - 189 mg/dl Very High: >/= 190 mg/dl	Calculated
VLDL CHOLESTEROL, Serum	26.1	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.6	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.9	0-3.5 Ratio	Calculated

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M.B.B.S, DCP (PATH)
Pathologist



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Consulting Dr. : -
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AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE
THYROID FUNCTION TESTS

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
Free T3, Serum	5.4	2.6-5.7 pmol/L	CMIA
Kindly note change in reference range and method w.e.f. 16/08/2019			
Free T4, Serum	13.4	9-19 pmol/L	CMIA
Kindly note change in reference range and method w.e.f. 16/08/2019			
sensitiveTSH, Serum	2.7	0.35-4.94 microIU/ml	CMIA

Kindly note change in reference range and method w.e.f. 16/08/2019. NOTE: 1) TSH values between 5.5 to 15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors can give falsely high TSH. 2) TSH values may be transiently altered because of non thyroidal illness like severe infections, liver disease, renal & heart failure, severe burns, trauma & surgery etc.



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Name : MR.MAHESH SIDDARAM SWAMY
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Interpretation:

A thyroid panel is used to evaluate thyroid function and/or help diagnose various thyroid disorders.

Clinical Significance:

- 1)TSH Values between high abnormal upto15 microIU/ml should be correlated clinically or repeat the test with new sample as physiological factors can give falsely high TSH.
- 2)TSH values may be trasiently altered becuase of non thyroidal illness like severe infections,liver disease, renal and heart severe burns, trauma and surgery etc.

TSH	FT4 / T4	FT3 / T3	Interpretation
High	Normal	Normal	Subclinical hypothyroidism, poor compliance with thyroxine, drugs like amiodarone, Recovery phase of non-thyroidal illness, TSH Resistance.
High	Low	Low	Hypothyroidism, Autoimmune thyroiditis, post radio iodine Rx, post thyroidectomy, Anti thyroid drugs, tyrosine kinase inhibitors & amiodarone, amyloid deposits in thyroid, thyroid tumors & congenital hypothyroidism.
Low	High	High	Hyperthyroidism, Graves disease, toxic multinodular goiter, toxic adenoma, excess iodine or thyroxine intake, pregnancy related (hyperemesis gravidarum, hydatiform mole)
Low	Normal	Normal	Subclinical Hyperthyroidism, recent Rx for Hyperthyroidism, drugs like steroids & dopamine), Non thyroidal illness.
Low	Low	Low	Central Hypothyroidism, Non Thyroidal Illness, Recent Rx for Hyperthyroidism.
High	High	High	Interfering anti TPO antibodies, Drug interference: Amiodarone, Heparin, Beta Blockers, steroids & anti epileptics.

Diurnal Variation:TSH follows a diurnal rhythm and is at maximum between 2 am and 4 am , and is at a minimum between 6 pm and 10 pm. The variation is on the order of 50 to 206%. Biological variation:19.7%(with in subject variation)

Reflex Tests:Anti thyroid Antibodies,USG Thyroid ,TSH receptor Antibody. Thyroglobulin, Calcitonin

Limitations:

1. Samples should not be taken from patients receiving therapy with high biotin doses (i.e. >5 mg/day) until atleast 8 hours following the last biotin administration.
2. Patient samples may contain heterophilic antibodies that could react in immunoassays to give falsely elevated or depressed results. this assay is designed to minimize interference from heterophilic antibodies.

Reference:

- 1.O.koulouri et al. / Best Practice and Research clinical Endocrinology and Metabolism 27(2013)
- 2.Interpretation of the thyroid function tests, Dayan et al. THE LANCET . Vol 357
- 3.Tietz ,Text Book of Clinical Chemistry and Molecular Biology -5th Edition
- 4.Biological Variation:From principles to Practice-Callum G Fraser (AACC Press)

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Signature

Dr.SHAMLA KULKARNI
M.D.(PATH)
Pathologist