Magnd, please return to,

Bank of Baroda, Baroda Surya Bhawan, Main Road Bisturyas
Jamskiedpur-831001, Jhankhand
Phone +91 657 424910, 6459458

PERMANENT ADDRESS : C/o Rakesh Kumar Singh, New Area First Lame, Hazaribagh Jharkhand- 825301

EMERGENCY CONTACT NO.: 9431192847

रफा सगृह / Blood Group : B प्रमुख बिन्ट / Identification Marks • Mole on Right Side of Chin



ः मेघा नाम Megha

कर्नचारी कूट क्र 125171 E.C. No.: 125171

जारीकर्त्ता प्राधिकारी, उब मब प्रं० जमरोदपुर क्षेत्र Issuing Authority, DGM Jamahedpur Region



यह कार्ड पाये जाने पर किम्निलिखित पते पर भेजे: If found send this card to following address:

भपर निदेशक सी.जी.एच.एस. The Additional Director CGHS

नई ए.जी. कॉलोनी, डोस्न्डा; New A.G Colony, Doranda,

राज्यी, झारखंड Ranchi, Jharkhand

यह कार्ड जारी होने की तिथि से 5 वर्षों या वैधता की तिथि जो भी पहले हो तक मान्य है। This card is valid for '5' years from month of issue or till date of validity whichever is earlier.

कार्ड गुन होना; अनुतिपि जारी करने के लिये रु. 50/- जुर्माना लगेगा। Loss of card: Penalty of Rs. 50/- shall be charged for issue of duplicate card.

केन्द्रीय सरकार स्वास्थ्य योजना Central Government Health Scheme



PUSHPAM TIWARI 7034998 - सर्विस/ Service जन्मतिथि / Date of Birth: 23/10/2012 सामान्य वार्ड / General Ward प्यस वर्ग / Blood Group: 0+ वैषता / Valid Upto: Aug 2026 जारी करने की शिषि/Date of Issue: Sep 2021



निदेशक / Director

Sakojaseen Teiler

fardaan Hospital and Reserach Centre

Block Road Kathitand Ratu Ranchi Jharkhand

11858 / megha / 31 Yrs / F / 150 Cms / 72 Kg Date: 28-Jan-2023 Refd By : M.H.T.S PVT. Examined By:

| | 1 | Duration | Speed(mph) | Elevation | METS | Rate | % THR | 8 | RPP | PVC | Collingia |
|----------------|-------|--------------|------------|-----------|------|----------|-------|-----------|--------|------|-----------|
| Stage | 00.00 | 0.08 | 00.0 | 00.0 | 01.0 | 108 | 57 % | 1 | 000 | : 8 | |
| Standing | 00.00 | . (. . () | 8 : | 00 O | 010 | 106 | 56 % | 1 | 000 | 8 | |
| Warm Up | 01:49 | 1:43 | 00.0 | 0 0 |) (| 30 | 63 % | 110/70 | 132 | 8 | |
| | 03:21 | 1:32 | 01.0 | 0.00 | 0.00 | 120 | | | , , | 3 | |
| | 2 | 3.0 | 017 | 10.0 | 04.7 | 139 | 74 % | 07/01.1 | 701 | . 6 | |
| BRUCE Stage 1 | 00.21 | 0.00 | 3 | 3 | 07 1 | 55 55 | 82 % | 110/70 | 170 | 8 | |
| BRUCE Stage 2 | 09:21 | 3:00 | 02.50 | | | ; | 2 | 110/70 | 195 | 8 | |
| DI ICE Stone 2 | 12.21 | 3:00 | 03.4 | 14.0 | 2.01 | 170 | 01. | | | 3 | |
| | 3 | 0 | 04.9 | 16.0 | 10.4 | 180 | % 96 | 110/70 | 100 | . (| |
| PeakEx | 12:30 | | ì | 3 | 04.3 | 160 | 85 % | 110/70 | 176 | 00 | |
| Recovery | 13:30 | | - | | 2 ! | 2 | 71 % | <u></u> / | 000 | 00 | |
| Recovery | 14:30 | 2:00 | 00.0 | 00.0 | | | 8 | 110/70 | 144 | 8 | |
| | 1n 30 | S S S | 00.0 | 0.00 | 01.0 | 3 | 00 /0 | | : | - A, | |
| Recovery | 10.00 | . 0 | 00 (| 20 | 01.0 | 129 | 68 % | 110/70 | 141 | 00 | |
| Recovery | 16:30 | 4:00 | | 000 | 01.0 | 129 | 68 % | 110/70 | 141 | 8 | |

Findings:

09:09

Exercise Time 180 bpm 95% of Target 189

Max HR Attained (Sys) 110/70

Max BP Attained Max WorkLoad Attained 10.4 Good response to induced stress

Max ST Dep Lead & Avg ST Value : V3 & -7.8 mm in ExStart

Duke Treadmill Score

Test End Reasons

Test Complete

Sample Name: Stress Test Graded Exercise Treadmill Description: Chest painChest wall tenderness occurred with exercise.

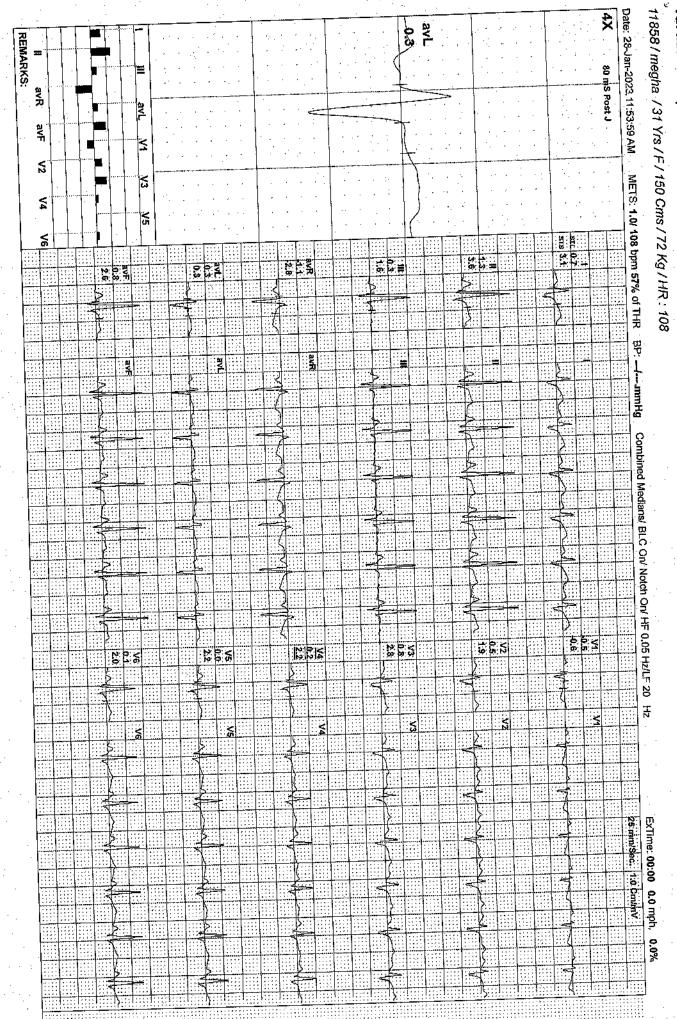
PROCEDURE DONE: Graded exercise treadmill stress test.
STRESS ECG RESULTS: The initial HR was recorded as 106.0 bpmand the maximum predicted Target Heart Rate 189,0-The Epiperased at the time of generating report as 110.0/70.0 mmHg The Max Dep went upto 0.0. 0.0 Ectopic Beats were observed during the Test

The Test was completed because of Test Complete.

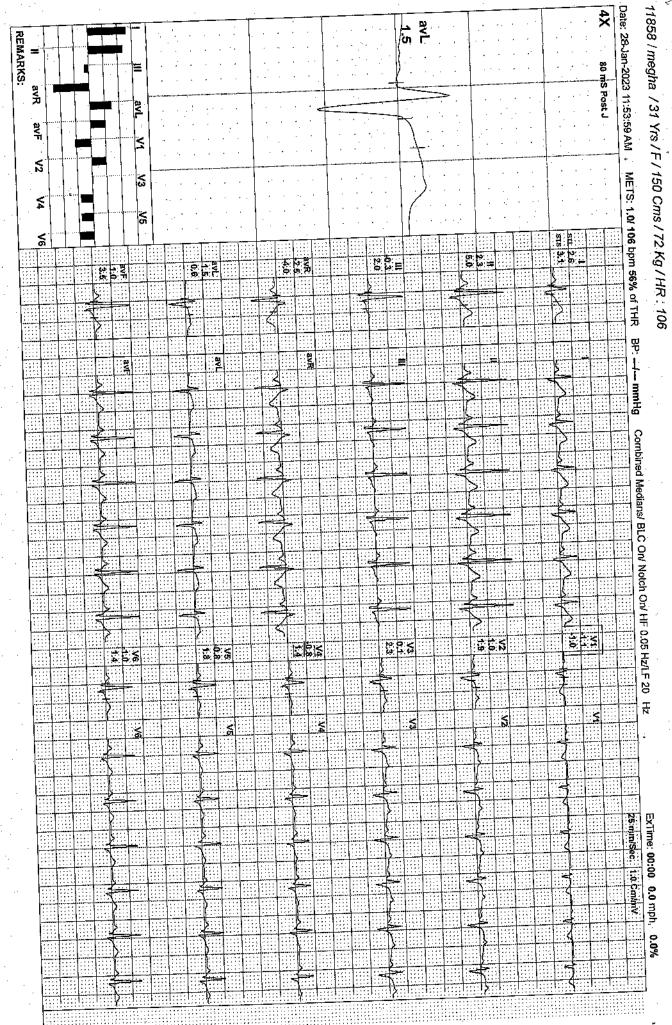


Stress test is negative for ischemia.
 Chest wall tenderness occurred with exercise.
 Blood pressure response to exercise is normal.

g(0:07)

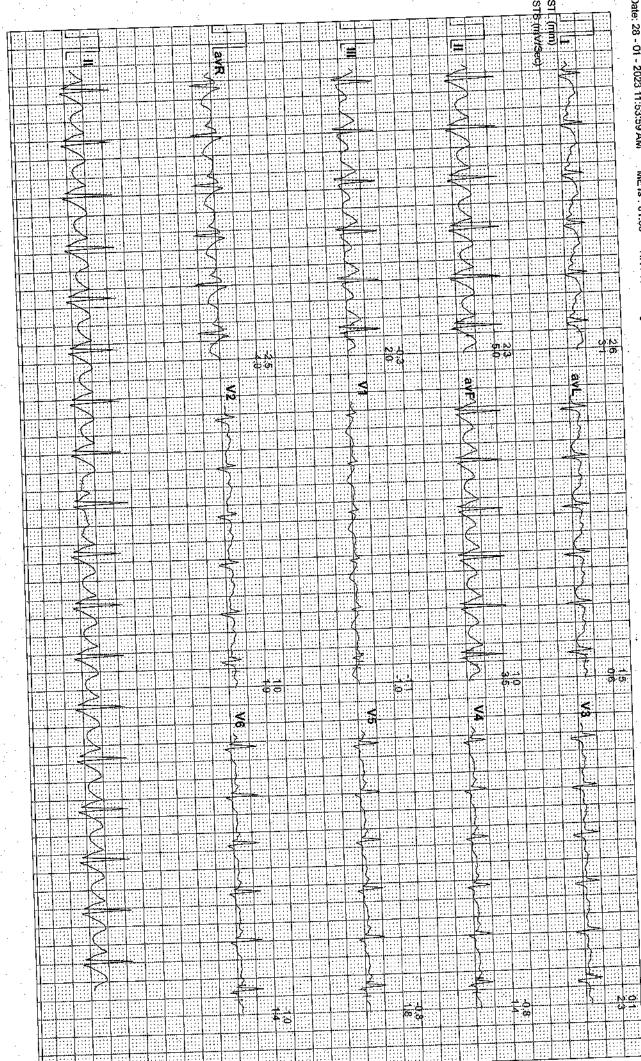


Date: 28 - 01 - 2023 11:53:59 AM Block Road Kathitand Ratu Ranchi Jharkhand— 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre lavR: METs: 01.00 HR: 108 Target HR: 57% of 189 7 avF/ BP:0/0 Post J @80mSec 00:00 4X3 CM + 1 Rhythm
BRUCE:Standing(0:07) 0.0 mph Grade: 00.00 % **4** 25 mm/Sec. 1.0 Cm/mV

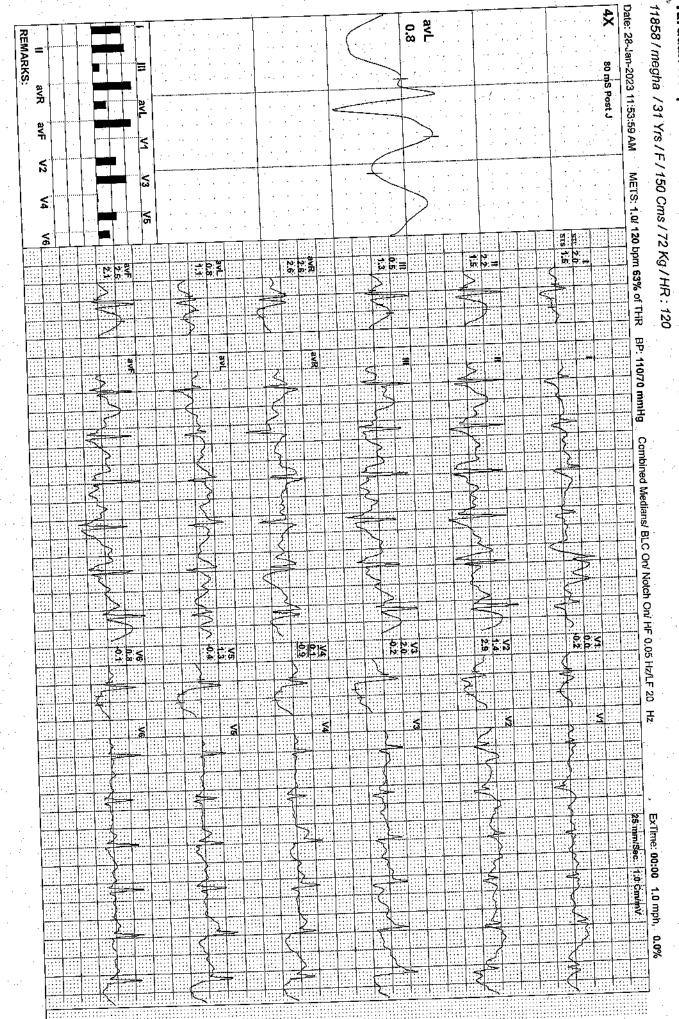




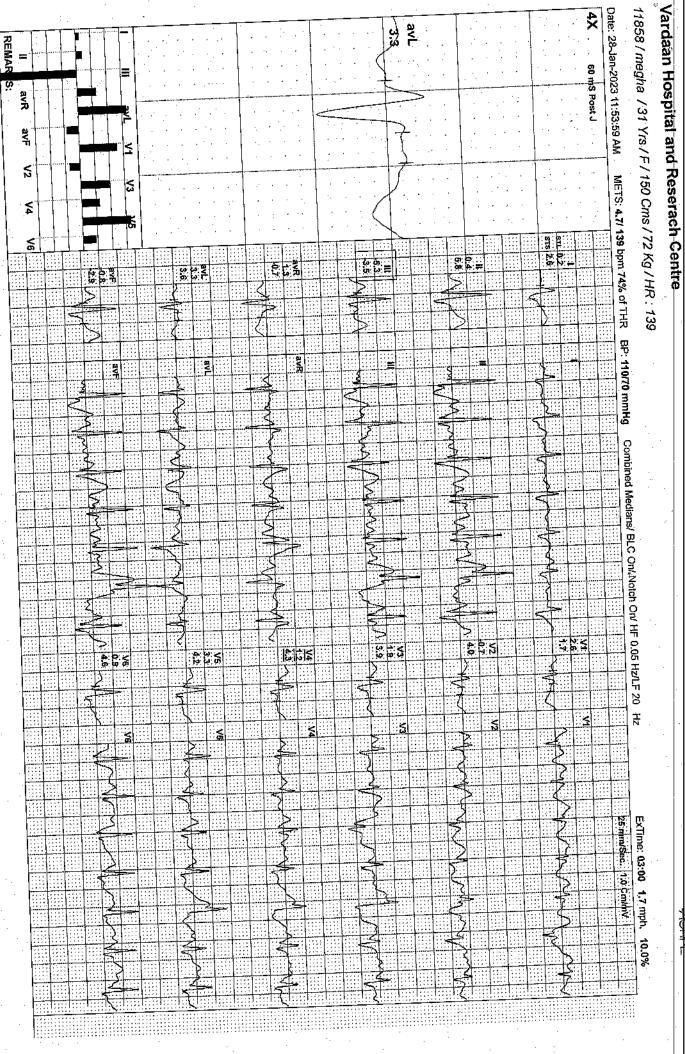
ST (mm) Date: 28 - 01 - 2023 11:53:59 AM Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg STB (m) V/Sec Vardaan Hospital and Reserach Centre METs: 01.00 HR: 106 Target HR: 56% of 189 BP: 0/0 Post J @80mSec avL 00:00 4X3 CM + 1 Rhythm BRUCE:Warm Up(1:43) 0.0 mph Grade: 00.00 % 25 mm/Sec. 1.0 Cm/mV



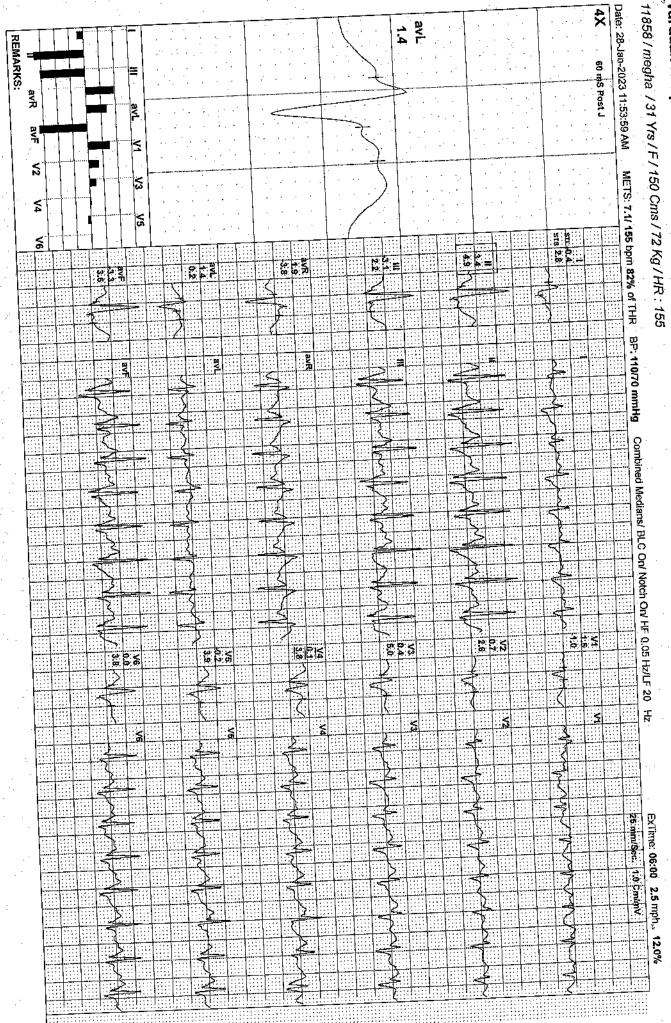




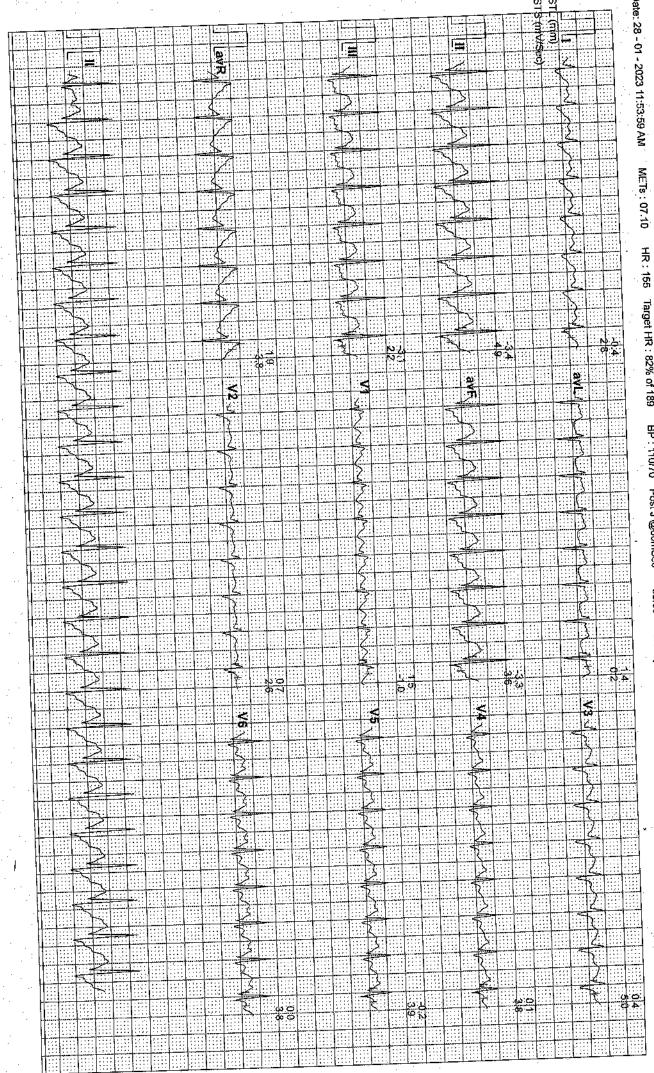
Date: 28 - 01 - 2023 11:53:59 AM METs: 01.00 HR: 120 Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre LawR IN Target HR : 63% of 189 √2 avF BP: 110/70 Post J @80mSec 4X3 CM + 1 Rhythm ExStart 00:00 1.0 mph Grade: 00.00 % **6**6 25 mm/Sec, 1.0 Cm/mV



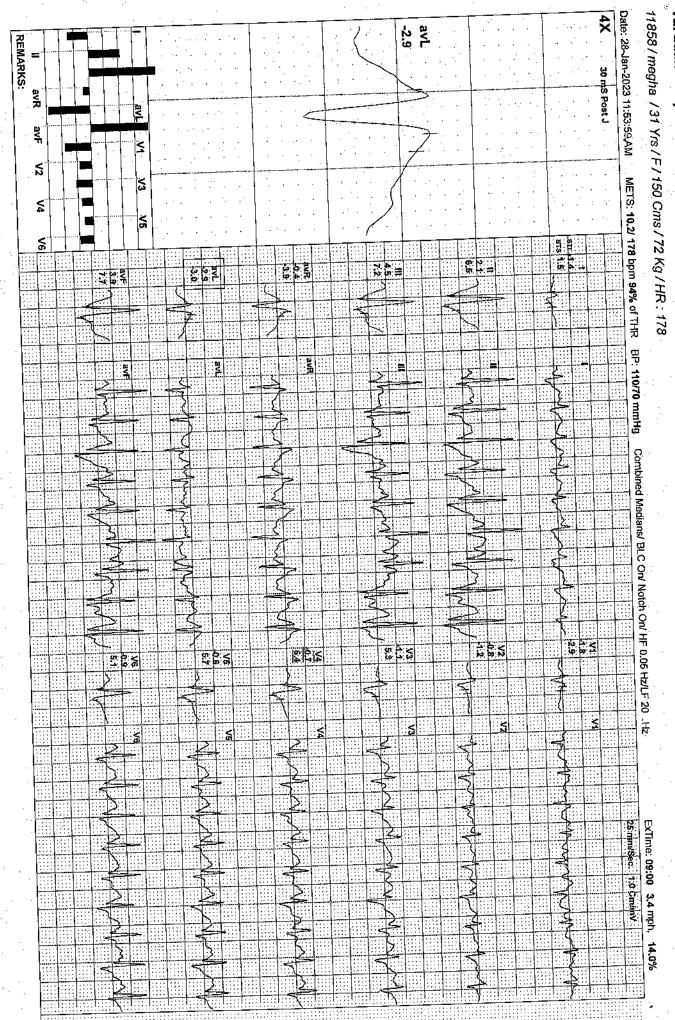
Date: 28 - 01 - 2023 11:53:59 AM METs: 04.70 HR: 139 Target HR: 74% of 189 Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre avR. حز avL avF BP: 110/70 Post J @60mSec 4X3 CM + 1 Rhythm BRUCE:Stage 1(3:00) 03:00 1.7 mph Grade: 10.00 % 25 mm/Sec. 1.0 Cm/mV 4 **V**5 6



Date: 28 - 01 - 2023 11:53:59 AM METs: 07.10 HR: 155 Target HR: 82% of 189 Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg BP: 110/70 Post J @60mSec 06:00 2.5 mph Grade : 12.00 % 25 mm/Sec. 1.0 Cm/mV **∀**8 ∠

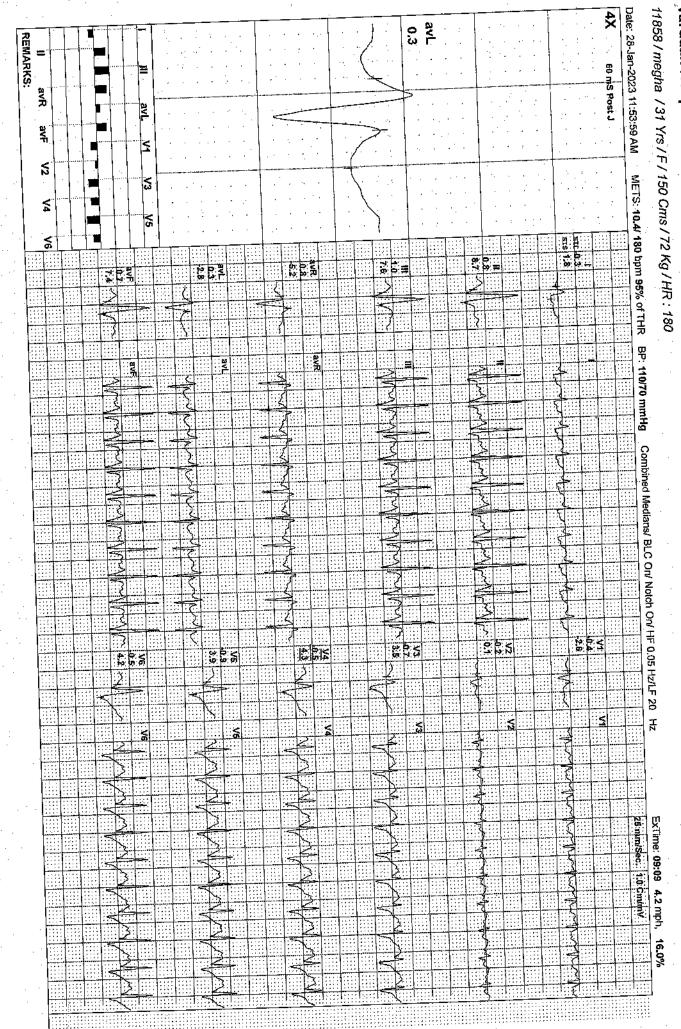


3(3:00)

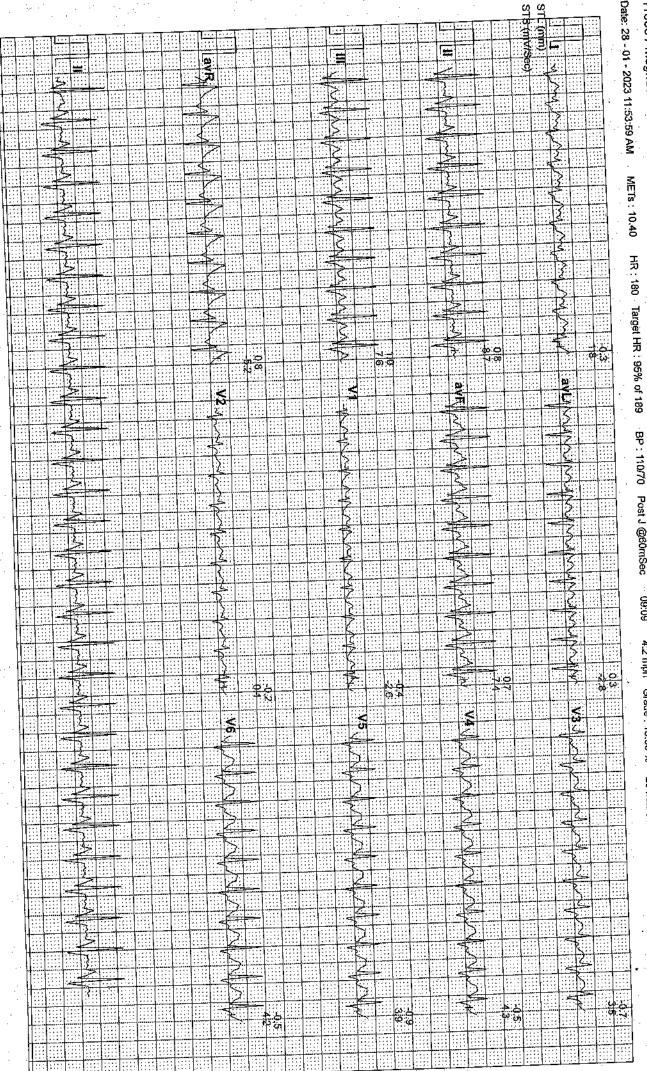


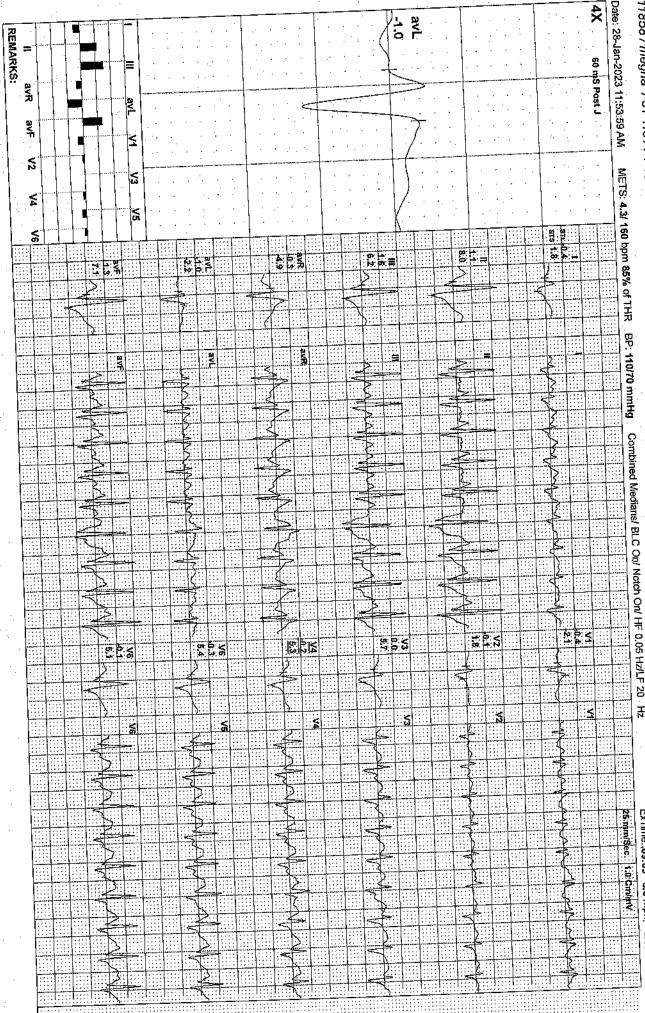
Date: 28 - 01 - 2023 11:53:59 AM Block Road Kathitand Ratu Ranchi-Jharkhand— 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre avR METs: 10.20 HR: 178 Target HR: 94% of 189 ≲ BP: 110/70 Post J @30mSec 4X3 CM + 1 Rhythm BRUCE:Stage 3(3:00) 09:00 3.4 mph Grade: 14.00 % 25 mm/Sec. 1.0 Cm/mV



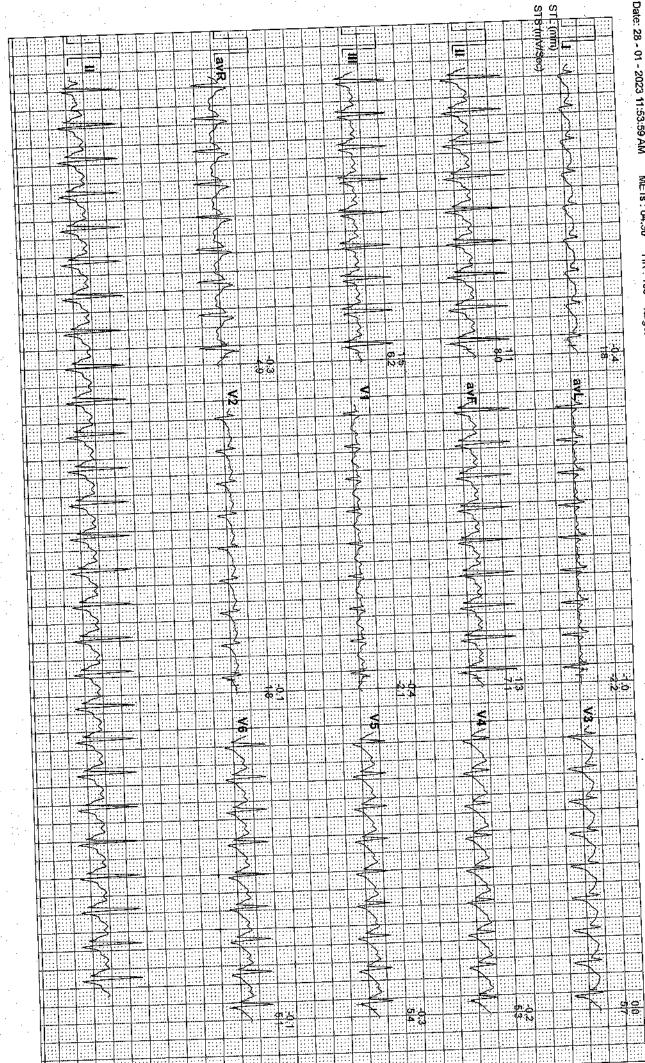


Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre BP: 110/70 Post J @60mSec 09:09 4X3 CM + 1 Rhythm PeakEx 4.2 mph Grade: 16.00 % 25 mm/Sec. 1.0 Cm/mV



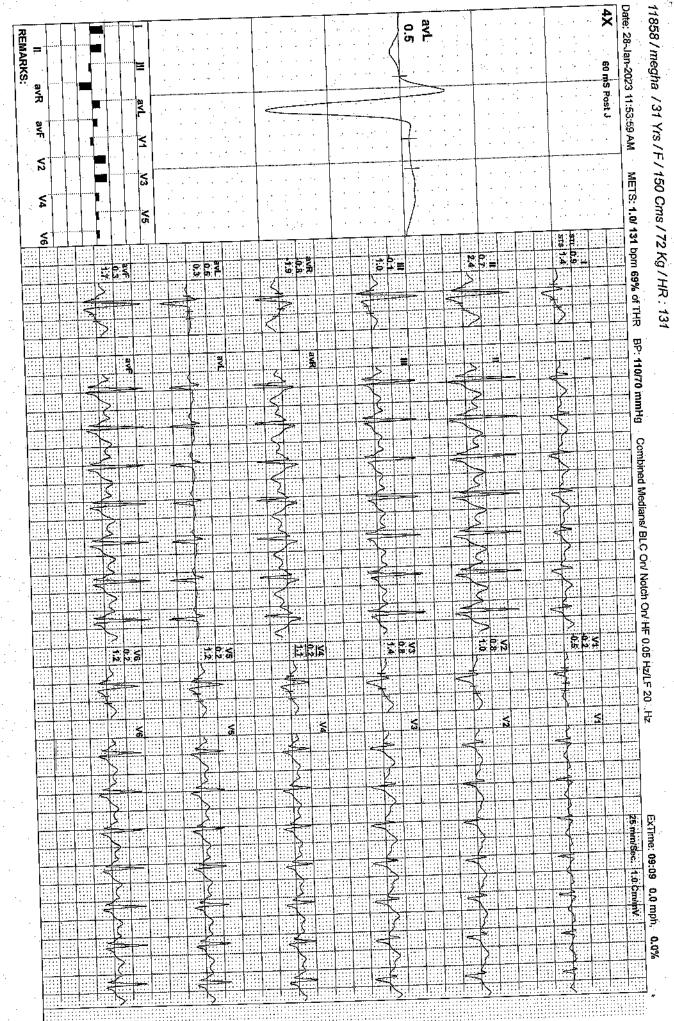


Date: 28 - 01 - 2023 11:53:59 AM Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre METs: 04.30 HR: 160 Target HR: 85% of 189 BP: 110/70 Post J @60mSec 4X3 CM + 1 Rhythm 90:09 0.0 mph Grade : 00.00 % 25 mm/Sec. 1.0 Cm/mV Recovery(1:00)



Recovery(2:00)

ry(3:00)



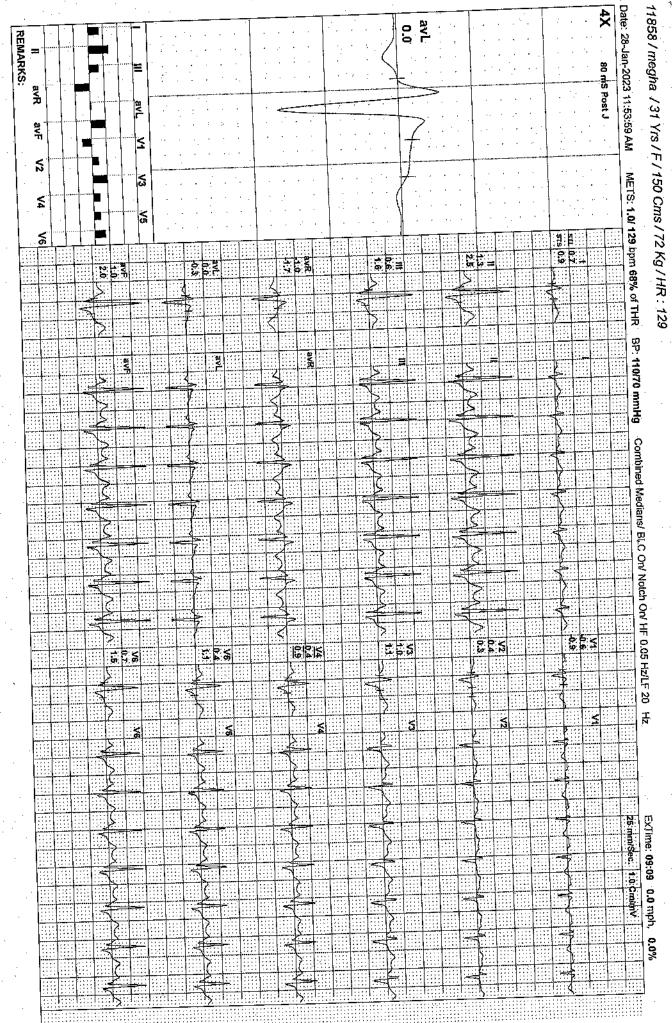
Date: 28 - 01 - 2023 11:53:59 AM METs: 01:00 HR: 131 Target HR: 69% of 189 Block Road Kathitand Ratu Ranchi-Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre avx avF ₹2 BP: 110/70 Post J @60mSec 4X3 CM + 1 Rhythm Recovery(3:00) .09:09 0.0 mph Grade: 00.00 % ۷6 25 mm/Sec. 1.0 Cm/mV

(4:00)

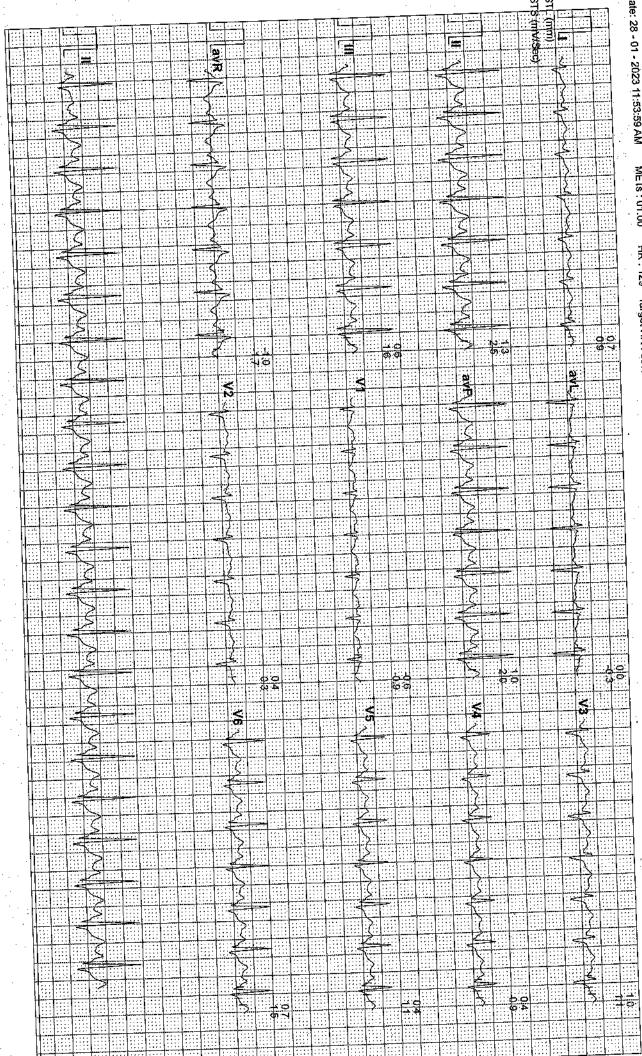
11858 / megha /31 Yrs / F / 150 Cms / 72 Kg / HR : 129 Date: 28-Jan-2023 11:53:59 AM \$ avL 0.5 REMARKS: 80 m/S Post J avR 2 av F S 5 METS: 1.0/ 129 bpm 68% of THR BP: 110/70 mmHg Combined Medians/ BLC On/ Notch On/ HF 0.05 Hz/LF 20 Hz S ₹ 8 4.2 VZ 0.2 ∩ 0.7 3.4 V |3|E||≨ 3 D S ExTime: 09:09 0.0 mph, 0.0%

STS (mix STE (mm) Date: 28 - 01 - 2023 11:53:59 AM METs: 01.00 HR: 129 Block Road Kathitand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre aYX Target HR : 68% of 189 avF 5 BP: 110/70 Post J @80mSec 4X3 CM + 1 Rhythm Recovery(4:00) 90:99 0.0 mph Grade: 00.00 % **√**6 25 mm/Sec. 1.0 Cm/mV

04)



Date: 28 - 01 - 2023 11:53:59 AM Block Road Kathifand Ratu Ranchi Jharkhand 11858 / megha / 31 Yrs / Female / 150 Cm / 72 Kg Vardaan Hospital and Reserach Centre METs: 01.00 HR: 129 Target HR: 68% of 189 BP: 110/70 Post J @80mSec 1X3 CM + 1 Rhythm Recovery(4:04) 09:09 25 mm/Sec. 1.0 Cm/mV 0

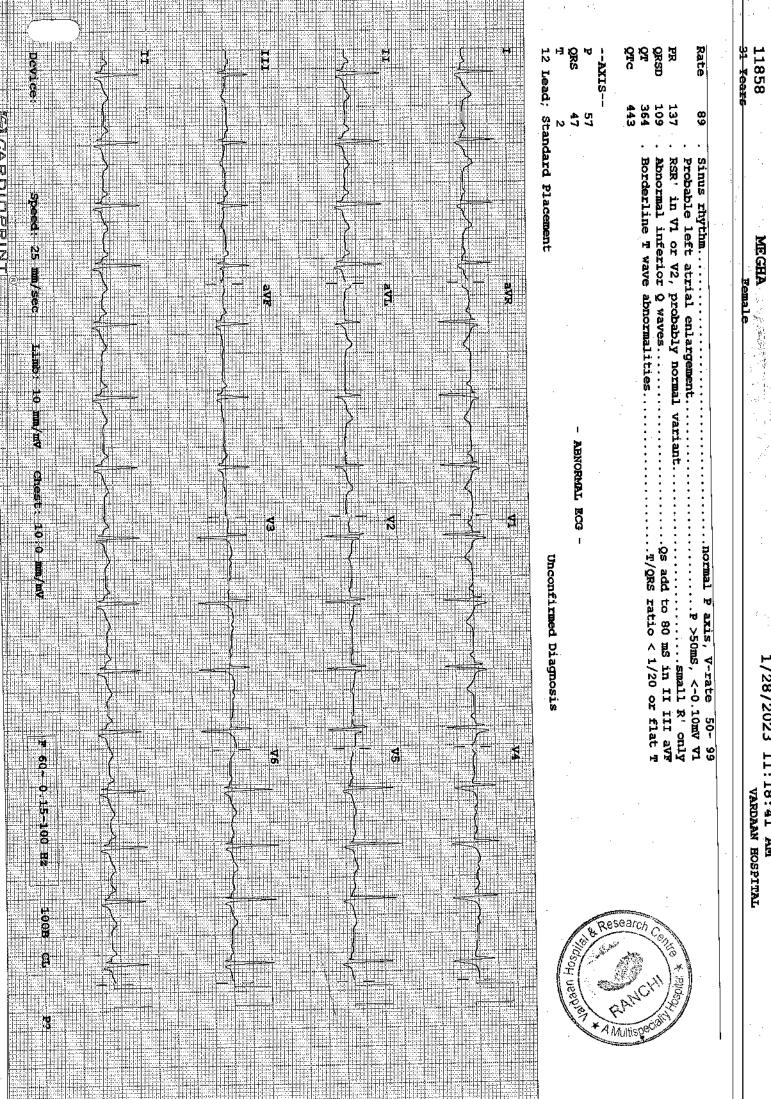


11858 / megha / 31 Yrs / F / 150 Cms / 72 Kg / HR : 89

Date: 28-Jan-2023 11:53:59 AM 80 @mS Warm Up STL(mm) Standing Stage 3 Stage 2 Stage 1 ExStart PeakEx Recovery Recovery Recovery Recovery Recovery 9.0 0.6 6 . 0.20 -0.2 9 6.3 0.5 -0.9 -0.7 5 0.9 4.6 5 Protocol : BRUCE STS(mv/sec)

V5

| Standing Warm Up ExStart Stage 1 Stage 2 Stage 3 PeakEx Recovery Recovery Recovery | · · · · · · · · · · · · · · · · · · · |
|--|---------------------------------------|
| 2.5 10.9 11.1 -1.1 -6.2 -5.7 -4.1 0.2 -1.8 -1.3 -3.6 | - |
| 7.1 6.0 15.6 -2.3 -25.1 5.0 -4.0 -16.2 -7.9 -5.4 4.4 | = |
| 1.0 4.9 2.8 -26.4 -19.1 13.2 -6.1 -17.3 -6.0 4.1 0.9 | = |
| -6.5 14.9 7.7 15.6 0.2 13.4 7.6 4.7 3.3 4.0 | avi |
| 2.6 7.9 2.0 14.1 6.6 6.5 8.9 2.1 1.3 | 5 |
| 4.1 0.5 16.5 -6.9 -22.2 10.7 -16.8 -6.9 -4.8 2.7 | |
| 2.8 0.4 11.8 8.6 1.5 1.5 2.0 2.0 2.4 | 3 |
| 1.0 -10.0 -10.0 1.1 -2.1 -0.3 -0.5 -0.2 -0.2 | <u>.</u> |
| 7.2 16.9 7.6 -1.9 -6.1 -5.2 -0.8 4.9 | |
| 133 133 133 133 133 133 133 133 133 133 | 7 |
| 10.9 15.8 14.2 14.6 14.6 14.6 16.9 16.8 16.8 | -2.0 |
| 3.8 6.4 -0.1 -2.3 -4.7 -10.0 -1.3 | - - - - - - - |





Block Rd, Kathitand, Ratu, Ranchi Phone No :0651-666 0100 / 7070094158 E-mail :vardaanhospitalranchi@gmail.com Website:www.vardaanhospitals.org

DEPARTMENT OF RADIOLOGY

Mrs. Megha Age: 31 Yrs/Male

Refferring Doctor :- self

Date:- 28.01.2023 UHID:- 11858

X-RAY CHEST PA

FINDINGS:

The retro-cardial and retero-sternal spaces are clear. Both the lung fields are equally translucent. The posterior and lateral costo-phrenic angles are clear. Domes of diaphragm are normal in position and contour. No obvious skeletal abnormality is seen.

IMPRESSION:

No significant abnormality is seen

Radiology Department



Dr. SAURAV MBBS,MD. Cons. Radiologist VARDAAN HOSPITAL MEGHA.31Y UHID-11858 1/28 2023 Acq Tm: 11.06 AM W: 4115 L: 2334 VARDAAN HOSPITAL & RESEARCH CENTRE, KATHITAND RATU RANCHI F CHEST, FRN P->A 1/28/2023 11:06 AM CXR PA MEGHA,31Y UHID-11858 CHEST, FRN P->A 2320 X 2818

VARDAAN HOSPITAL & RESEARCH CENTER

Name:MEGHA ID:20230128-103828-38EE Age:31Years Gender:Female

Telephone: 06516660100

Fax:

Website: www.vardaanhospitals.org



OB1 Exam Date: 28/01/2023 Equipment Used: MINDRAY DC-30

General

2D Measurements

Dist: 7.32cm

Comments: LIVER- NORMAL SIZE , SHAPE AND ECHOTEXTURE HEPATOBILIARY RADICLES WITHIN NORMAL LIMITS.

GB & CBD-- GB WELL DISTENDED, NORMAL WALL THICKNESS, CBD NORMAL CALIBER, NO CALCULI SEEN IN GB.

PANCREAS--NORMAL SIZE, SHAPE AND ECHOTEXTURE, NO CALCIFICATION OR ANY OTHER ABNORMALITY SEEN.

SPLEEN- NORMAL.

KIDNEY- NORMAL SIZE (RT. KIDNEY 104 MM, LT. KIDNEY 105 MM) NORMAL SHAPE & ECHOTEXTURE B/L .

CORTICO -- MEDULLARY TRUCTURE MANTAINED, NO CALCULI SEEN B/L KIDNEY.

URETER- B/L NOT DILATED, NO CALCULI SEEN.

UTERUS - 6.83 X 4.68 CM, ANTEVERTED, ENDOMETRIAL WALL THICKNESS WITHIN NORMAL LIMIT.

CX- NORMAL.

OVARIES--NORMAL SIZE & SHAPE B/L.

UB- WELL DISTENDED, WALL THICKNESS WITHIN NORMAL LIMIT, NO CALCULI OR GROWTH SEEN.

IMP-- NORMAL STUDY.



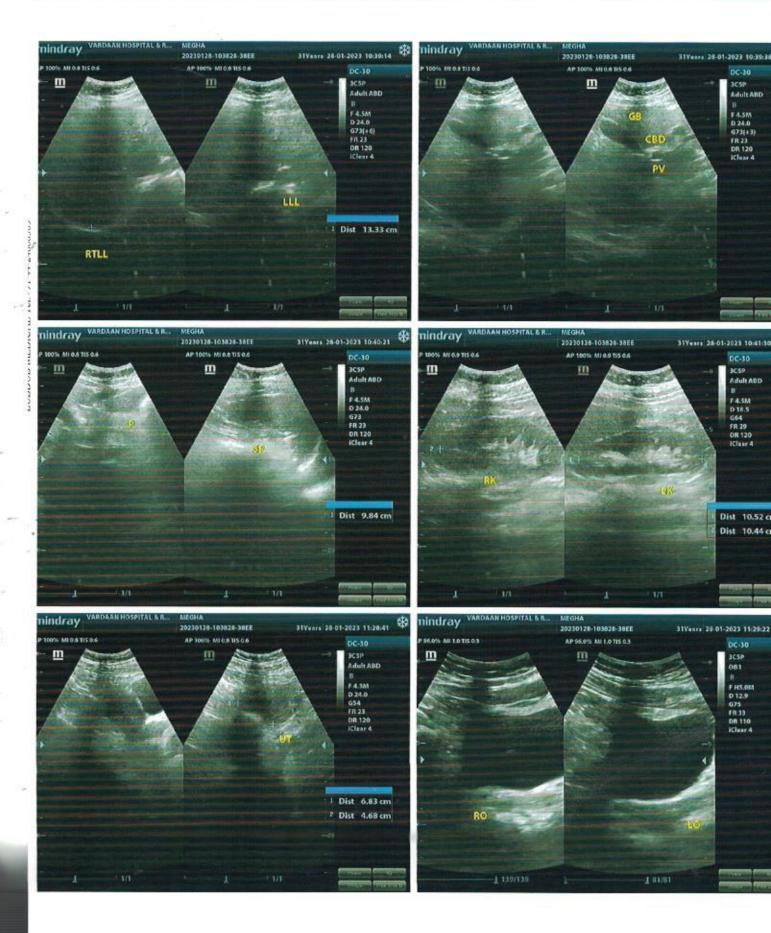
Date Signed:

Signature(seal):

VARDAAN HOSPITAL & RESEARCH CENTRE

Address, BLOCK ROAD RANCHIKATHITAND RATU

| Patient Name | MEGHA | Age / Sex | 31/ |
|--------------|----------|--------------|------------|
| Patient ID | 00003357 | Visit Date | 28/01/2023 |
| Referred By | | Consulted By | |
| Procedure | | Medication | |





Block Rd, Kathitand, Ratu, Ranchi Phone No :0651-666 0100

E-mail:vardaanhospitalranchi@gmail.com Website:www.vardaanhospitals.org

SINGH PATH LAB DEPARTMENT OF LABORATORY SCIENCES

Mrs. MEGHA **Patient Name** RIS No **UHID/IP No** 11858 / 1454 **Sample Date** 28/01/2023 9:54AM Age/Gender 31 Yrs/Female **Receiving Date** 28/01/2023 12:00PM 28/01/2023 4:04PM Bed No/Ward OPD **Report Date Referred By Report Status** Final

BIOCHEMISTRY

| Test Name | Result | Unit | Biological Ref. Range | Method |
|---|---------|--------|--------------------------|--------|
| HBA1C | | | | |
| GLYCOSYLATED Hb - (HbA1C) | 4.0 | % | < 6 | |
| KIDNEY FUNCTION TEST (KFT) Sample: Serum | | | | |
| UREA | 23 | mg/dl | 19 - 43 | |
| Creatinine | 0.8 | mg/dl | 0.70 - 1.40 | |
| Uric Acid | 4.0 | mg/dl | 2.00 - 7.00 | |
| Sodium (Serum) | 139.4 | mmol/L | 135 - 145 | |
| Potassium (Serum) | 4.6 | mmol/L | 3 - 5 | |
| Chloride (Serum) | 98.2 | mmol/L | 98 - 108 | |
| Cholesterol-Total | 169 | | 140.0 - 250.0 | |
| HDL | 44.25 | | 40.0 - 60.0 | |
| Triglycerides | 76 | | < 150.0 | |
| VLDL - Cholesterrol | 15.2 | mg/dl | 10 - 150 | |
| LDL | 109.5 H | | < 100 | |
| LIVER FUNCTION TEST (LFT) Sample: Serum | | | | |
| Bilirubin Total | 0.4 | mg/dl | 0.20 - 1.30 | |
| Bilirubin Direct | 0.2 | mg/dl | < 0.20 | |
| Bilirubin Indirect | 0.2 | mg/dl | 0 - 1 | |
| AST/SGOT | 24 | U/L | 0 - 45 | |
| ALT/SGPT | 22 | | 0.0 - 45.0 | |
| Total Protein. | 6.4 | | 6.3 - 8.2 | |
| Albumin | 3.5 | g/dl | 3.50 - 5.20 | |
| Globulin | 2.9 | g/dl | 2.0 - 3.5 | |
| A/G Ratio (Albumin/Globulin Ratio) | 1.21 | | 1 - 2 | |
| Alkaline Phosphatase | 94 | U/L | 35 - 129 | |
| Blood Sugar (Fasting) | 81 | | 70 - 100 | |

Dr. NAND JI SINGH

MBBS,MD,PATHO

Select

Mr. RAMBRIKSH KUMAR

Select



Block Rd, Kathitand, Ratu, Ranchi

Phone No: 0651-666 0100

E-mail:vardaanhospitalranchi@gmail.com Website:www.vardaanhospitals.org

SINGH PATH LAB **DEPARTMENT OF LABORATORY SCIENCES**

Mrs. MEGHA **Patient Name** RIS No **UHID/IP No** 11858 / 1454 **Sample Date** 28/01/2023 9:54AM Age/Gender 31 Yrs/Female **Receiving Date** 28/01/2023 12:00PM

28/01/2023 4:04PM Bed No/Ward OPD **Report Date**

Report Status Final **Referred By**

BLOOD GLUCOSE - POST PRANDIAL

BLOOD GLUCOSE - POST PRANDIAL 97 mg/dl

-- End Of Report--

F68-71011925

Dr. NAND JI SINGH MBBS, MD, PATHO

Select

Mr. RAMBRIKSH KUMAR

Select



Block Rd, Kathitand, Ratu, Ranchi

Phone No: 0651-666 0100

E-mail: vardaanhospitalranchi@gmail.com Website: www.vardaanhospitals.org

SINGH PATH LAB **DEPARTMENT OF LABORATORY SCIENCES**

Mrs. MEGHA **Patient Name** RIS No **UHID/IP No** 11858 / 1454 **Sample Date** 28/01/2023 9:54AM Age/Gender 31 Yrs/Female **Receiving Date** 28/01/2023 12:00PM 28/01/2023 4:04PM Bed No/Ward OPD **Report Date Referred By Report Status** Final

HAEMATOLOGY

| | | AL: 1A: 0L0 | •. | |
|--|--------|-------------|--------------------------|--------|
| Test Name | Result | Unit | Biological Ref. Range | Method |
| ESR Sample: W. B. EDTA | | | | |
| ESR (Erythrocyte Sed.Rate) | 06 | | 0 - 20 | |
| COMPLETE BLOOD COUNT Sample: W. B. EDTA | | | | |
| WBCS | 7300 | 10^3/uL | 4000 - 11000 | |
| RBC Count (Red Blood Cell) | 4.61 | | 3.80 - 4.80 | |
| Packed Cell Volume (PCV) | 37.5 | | 36.0 - 46.0 | |
| Mean Corpuscular Volume(MCV) | 81.3 L | | 83.0 - 101.0 | |
| MCH | 28.2 | | 27.0 - 32.0 | |
| MCHC | 34.7 H | | 31.5 - 34.5 | |
| Platelet Count | 2.18 | | 1.50 - 5.50 | |
| Neutrophil. | 62 | | 40 - 80 | |
| Lymphocyte % | 28 | | 20 - 55 | |
| Monocytes % | 03 | | 1 - 12 | |
| Eosinophil % | 07 H | | 0 - 6 | |
| Basophil % | 00 | | 0 - 2 | |
| HAEMOGLOBIN | 13.0 | gm/dl | 9 - 13 | |

--End Of Report--

F68-71011925

Dr. NAND JI SINGH MBBS, MD, PATHO Select



Block Rd, Kathitand, Ratu, Ranchi

Phone No: 0651-666 0100

E-mail:vardaanhospitalranchi@gmail.com Website:www.vardaanhospitals.org

SINGH PATH LAB DEPARTMENT OF LABORATORY SCIENCES

Mrs. MEGHA **Patient Name** RIS No **UHID/IP No** 11858 / 1454 28/01/2023 9:54AM Sample Date Age/Gender 31 Yrs/Female **Receiving Date** 28/01/2023 12:00PM 28/01/2023 11:03PM **Bed No/Ward** OPD **Report Date Referred By Report Status** Final

HARMONAL

| Test Name | Result | Unit | Biological Ref. Range | Method |
|--|--------|-------|--------------------------|--------|
| T3 T4 TSH(THYROID PROFILE) Sample: Serum | | | | |
| T3-TRIIODOTHYRONINE | 2.17 | uU/ml | 0.95 - 2.50 | |
| T4-THYROXINE | 132.82 | uU/ml | 66.00 - 181.00 | |
| TSH-Thyroid Stimulating Hormone | 3.14 | uU/ml | 0.250 - 5.000 | |

INTERPRETATION: -

Triiodothyronine (T3) is a hormone synthesized and secreted from the thyroid gland, and formed by peripheral deiodination of thyroxine(T4).T3 and T4 are secreted into the circulation in response to thyroid stimulating hormone (TSH) and play an important role in regulating metabolism.

Free T3 levels correlate with T3 secretion and metabolism. In hypothyroidism and hyperthyroidism, free T3 levels parallel changes in total T3 levels. 2 However, measuring free T3 is useful when altered levels of total T3 occur due to changes in T3binding proteins, especially TBG. TBG levels remain relatively constant in healthy individuals, but certain conditions such as normal pregnancy and steroid therapy can alter these levels. In these conditions, free T3 levels are unchanged, while total T3 levels parallel the changes in TBG.

Thyroxine (3,5,3'5'-tetra iodothtyronine, L-thyroxine or T4) is a hormone synthesized and secreted by the thyroid gland and plays an important role in regulating metabolism. Secretion into the circulation is in response to the pituitary hormone TSH (Thyroid stimulating hormone) and is regulated by a negative feedback mechanism involving the thyroid gland, pituitary gland and hypothalamus. In the circulation, 99.95% of T4 is reversibly bound to transport proteins, primarily thyroxin-binding globulin (TBG) and to a lesser extent albumin and thyroxine-binding prealbumin (TBPA). The remaining T4 is not bound to transport proteins, but is free in the circulation. This unbound fraction, or free T4 (FT4), is both metabolically active and a precursor to tri-iodothyronine (T3). Free T4 levels correlate with T4 secretion and metabolism. IN hypothyroidism and hyperthyroidism, FT4 levels parallel changes in total T4 levels. Measuring free T4 is useful when altered levels of total T4 occur due to changes in T4 binding proteins, especially TBG. TBG levels remain relatively constant in healthy individuals, but certain conditions, such as pregnancy and steroid therapy, can alter these levels. In these conditions, free T4 levels are unchanged, while T4 levels parallel the changes in TBG

TSH is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 (free T3) and FT4(free T4).

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SINGH PATH LAB DEPARTMENT OF LABORATORY SCIENCES

Patient Name Mrs. MEGHA RIS No 21064

UHID/IP No 11858 / 1454 **Sample Date** 28/01/2023 9:54AM

Age/Gender31 Yrs/FemaleReceiving DateBed No/WardOPDReport Date

Referred By Report Status Final

Additionally, the hypothalamic tripeptide ,thyrotropin-releasing hormone (TRH), directly stimulates TSH production. TSH stimulates the thyroid gland to synthesize and secrete T3 and T4. TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low. TSH assays with increased sensitivity and specificity provide a primary diagnostic tool to differentiate hyperthyroid from euthyroid patients.

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