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भारत सरकार  
GOVERNMENT OF INDIA

रंजनी सिन्हा  
Ranjani Sinha  
जन्म तिथि/ DOB: 24/09/1989  
महिला / FEMALE



23991406/2732  
महिला आयोग की पहचान  
\*  
GARGYAM OPTICS

Bl  
5

ID: 731

RANJANI SINHA  
Female 34Ycars

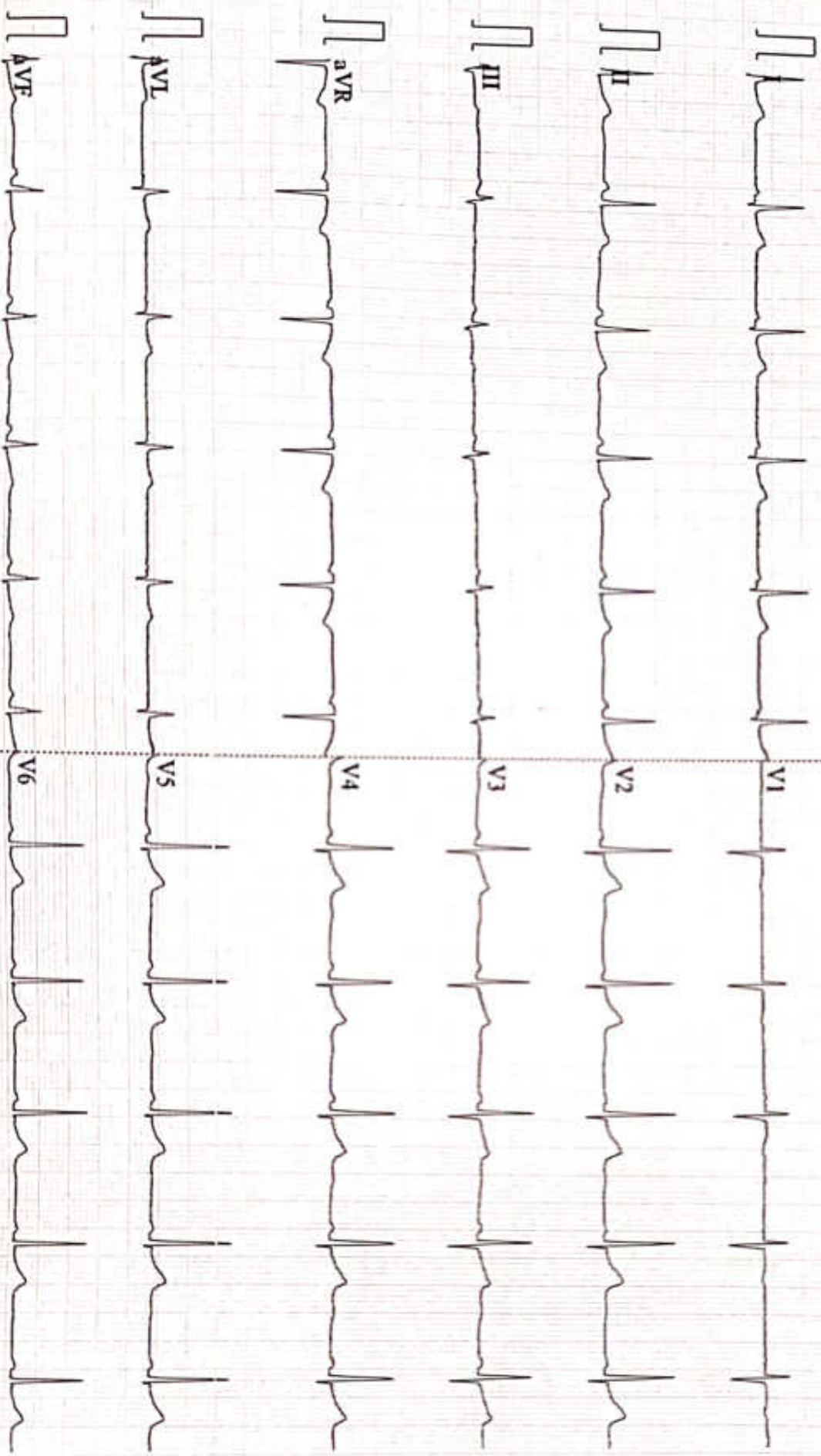
18-08-2024 09:22:55 AM

Diagnosis Information:

HR : 63 bpm  
P : 86 ms  
PR : 128 ms  
QRS : 73 ms  
QT/QTc : 381/391 ms  
PQRS/T : 59/37/36 °  
RV5/SV1 : 1345/0.556 mV

Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

Ref: **DR. RAMAN**  
Report Generated by: **DR. RAMAN**  
Repd. **DR. RAMAN**



0.67-100Hz AC50 25mm/s 10mm/mV 2\*5.0s V63 V2.2 SEMIP VI&I DIAGNOSTIC

Patient Name	RANJANI SINHA	Date	18-08-2024
Age/Sex	34/F	Ref. Dr.	CORPORATE

## CHEST X-ray(PA)

### FINDINGS:

Normal bronchovascular markings in bilateral lung fields

Bilateral hila are normal.

Trachea appears normal.

Visualized bones are grossly normal.

Cardiac shadow is within normal limits

Bilateral costophrenic angles are clear.

### Impression :

- *No significant abnormality detected.*



*Dr. Sandip Maheshwari*

*MD Radio diagnosis*



## Report



(GEM212170906)(R)Kardic by Allengers

3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg Date: 18-Aug-2024 Technician : RESHMA ALI

Stage	Time	Duration	Belt Speed (mph)	Elevation	METs	Rate	% THR Achieved	BP	RPP	PVC	Comments
Supine	00:09	0:01	00.0	00.0	01.0	84	45 %	120/80	100	00	
Standing	00:17	0:01	00.0	00.0	01.0	84	45 %	120/80	100	00	
HV	00:27	0:01	00.0	00.0	01.0	069	37 %	120/80	082	00	
Warm Up	00:34	0:01	01.0	00.0	01.0	069	37 %	120/80	082	00	
ExStart	00:49	0:06	01.7	10.0	01.1	086	46 %	120/80	103	00	
BRUCE/ Stage 1	03:49	3:00	01.7	10.0	04.7	120	65 %	125/85	150	00	
BRUCE/ Stage 2	06:49	3:00	02.5	12.0	07.1	133	72 %	130/90	172	00	
PeakEx	09:48	3:00	03.4	14.0	10.2	171	92 %	135/95	230	00	
Recovery	10:47	1:00	01.1	00.0	01.2	133	72 %	130/90	172	00	
Recovery	11:47	2:00	01.1	00.0	01.0	112	60 %	125/85	140	00	
Recovery	12:53	3:05	01.1	00.0	01.0	107	58 %	120/80	128	00	

### Findings :

Exercise Time : 09:00  
Max HR Attained : 171 bpm 92% of Target 186  
Max BP Attained : (Sys) 135/95  
Max WorkLoad Attained : 10.2 Good response to induced stress  
Max ST Dep Lead & Value : V4 & -1.3 mm in PeakEx mm  
Test End Reasons : Test Complete

### Report :

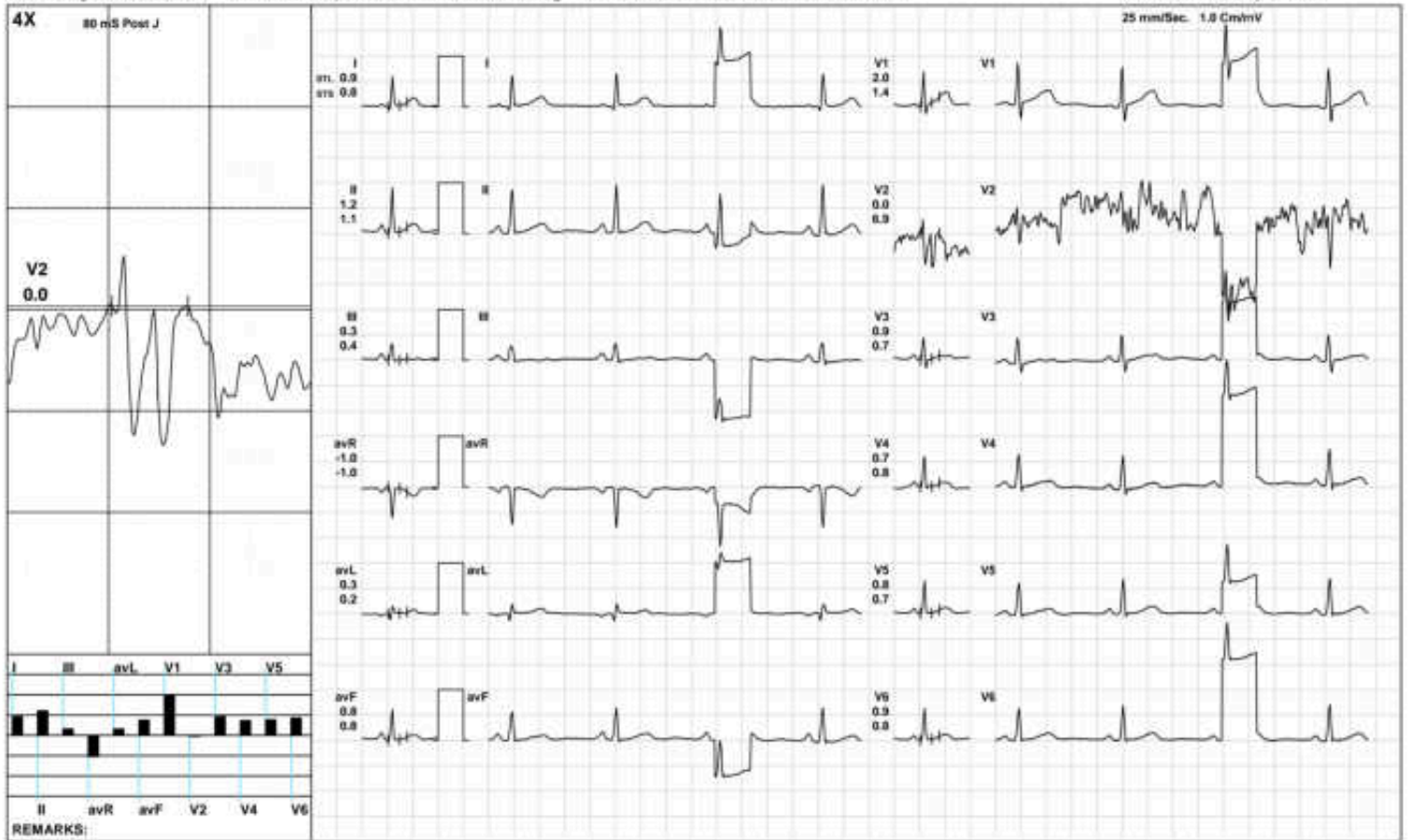
3037 / MRS. RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 84

Supine



Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 84 bpm 45% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:09 0.0 mph 0.0%



(GEM21217000)(R)Kardic by Allengers

Standing



3037 / MRS. RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 84

Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 84 bpm 45% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:17 0.0 mph 0.0%

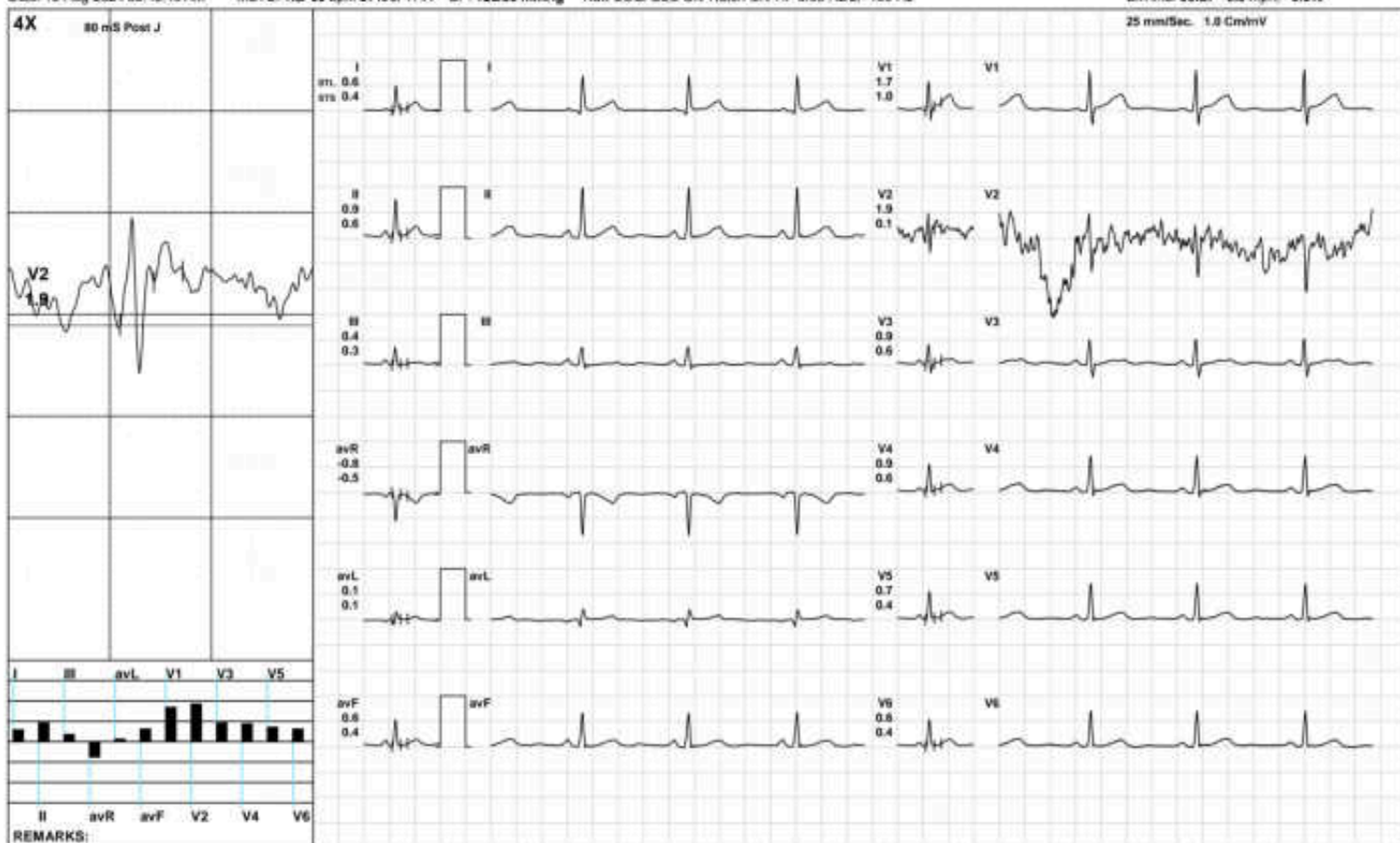


(GEM212170000)(R)Kardic by Allengers

3037 / MRS. RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 69

Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 69 bpm 37% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:27 0.0 mph - 0.0%



Warm Up



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 69

Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 69 bpm 37% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:34 1.0 mph 0.0%



(GEM212170000)(R)Kardic by Allengers



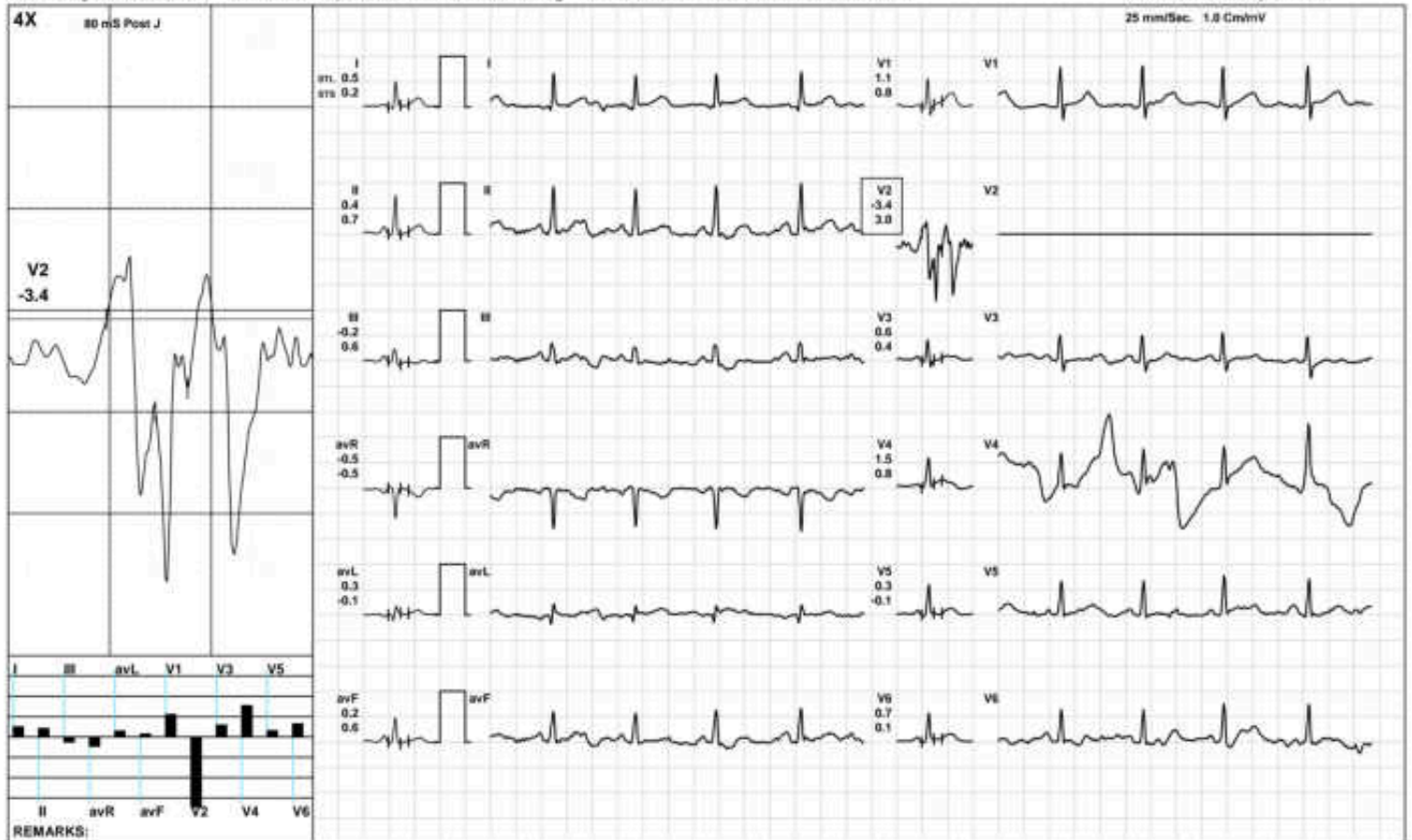
ExStart



3037 / MRS. RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 86

Date: 18-Aug-2024 09:49:46 AM METS: 1.1/ 86 bpm 46% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:06 1.7 mph 10.0%



(GEM212170900)(R)Kardic by Allengers

BRUCE/Stage 1(3:00)



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 120

Date: 18-Aug-2024 09:49:46 AM METS: 4.7/ 120 bpm 64% of THR BP: 125/85 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 03:00 1.7 mph 10.0%



(GEM212170900)(R)Kardic by Allergers

BRUCE/Stage 2(3:00)



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 133

Date: 18-Aug-2024 09:49:46 AM METS: 7.1/ 133 bpm 71% of THR BP: 130/90 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 06:00 2.5 mph 12.0%



(GEM212170900)(R)Kardic by Allergers

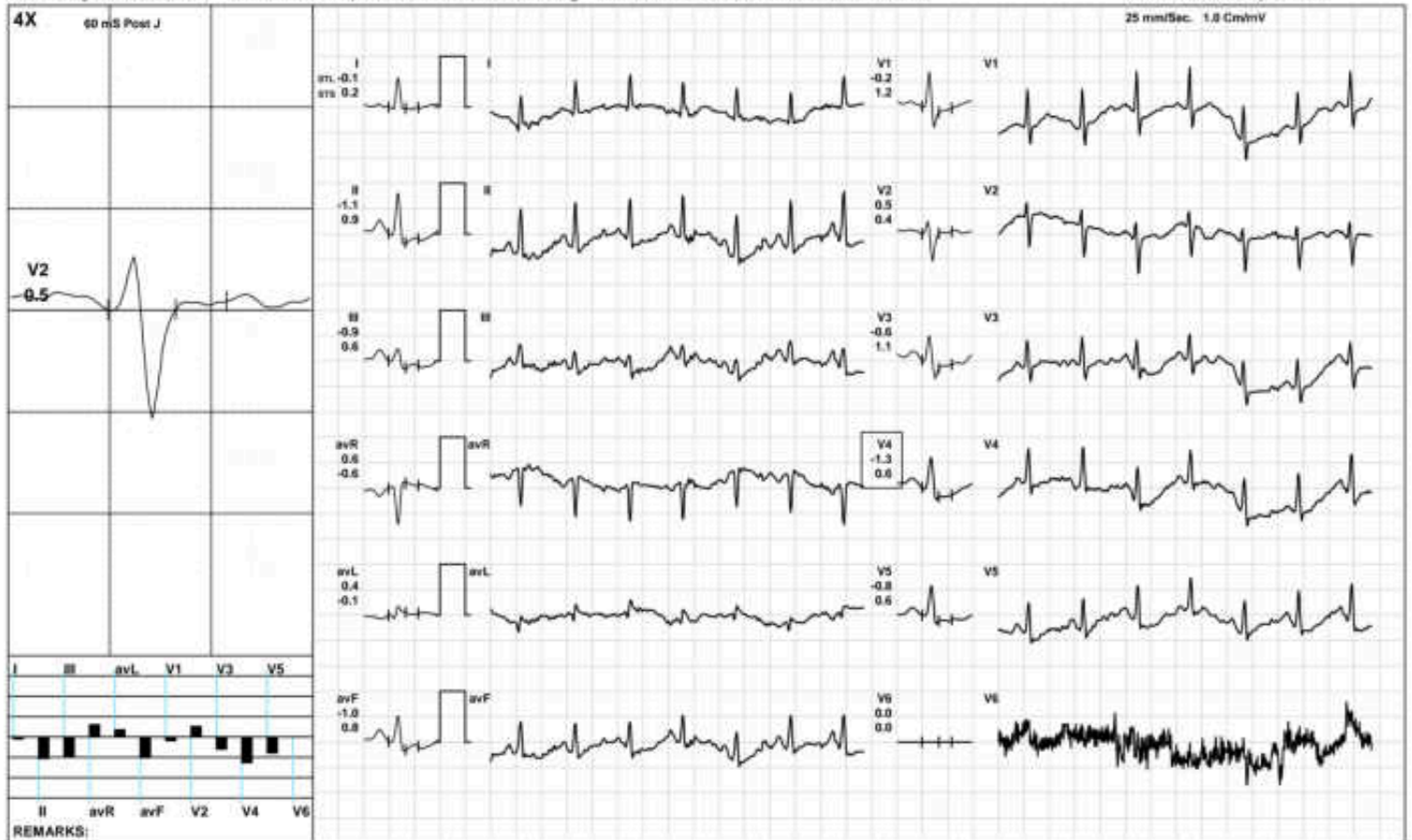
PeakEx



3037 / MRS. RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 171

Date: 18-Aug-2024 09:49:46 AM METS: 10.2/ 171 bpm 91% of THR BP: 135/95 mmHg Raw ECG/ BLC On/ Natch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 08:59 3.4 mph 14.0%



(GEM212170900)(R)Kardic by Allergers

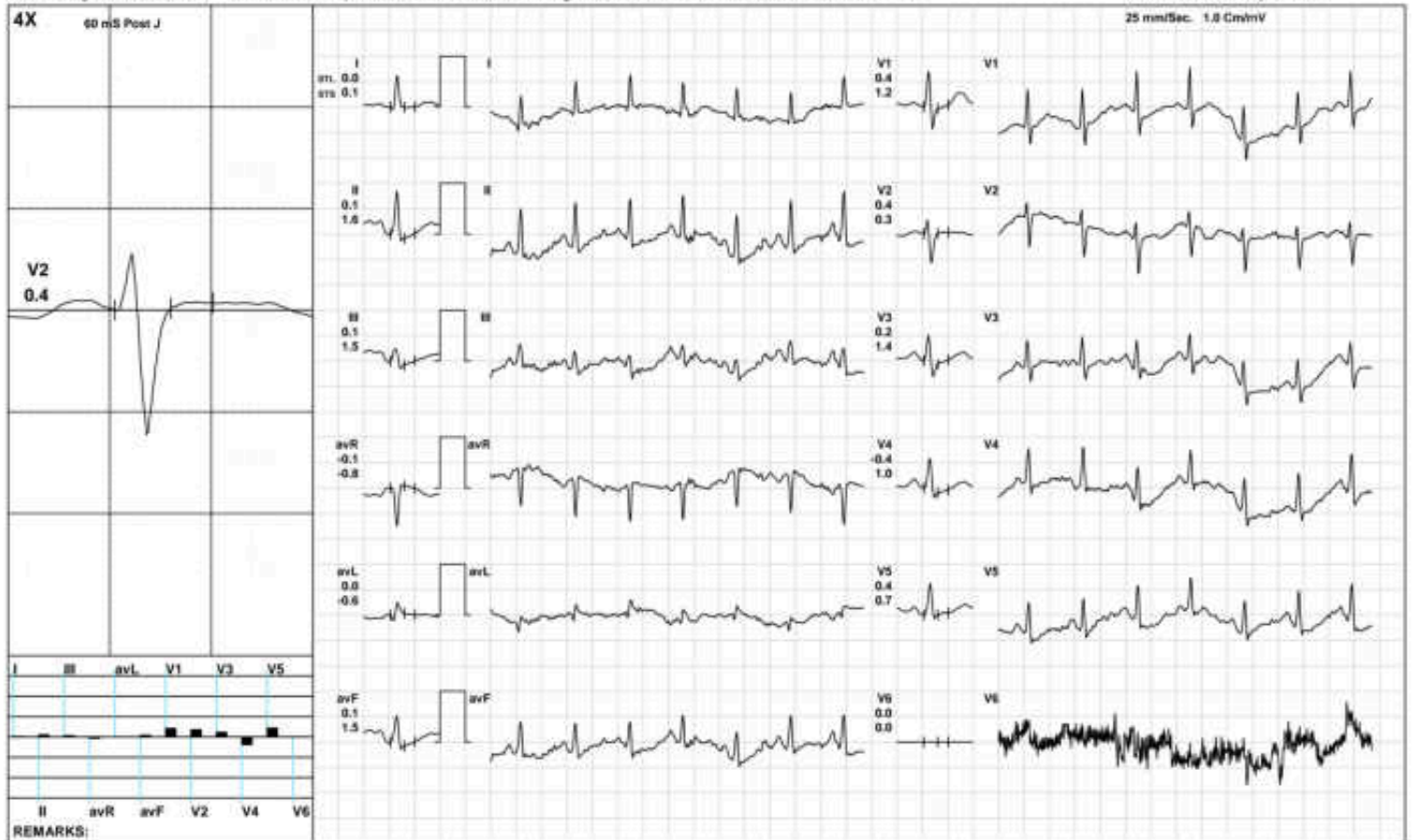
Recovery(1:00)



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 133

Date: 18-Aug-2024 09:49:46 AM METS: 1.2/133 bpm 71% of THR BP: 130/90 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 09:00 1.1 mph 0.0%



(GEM212170900)(R)Kardic by Allergers

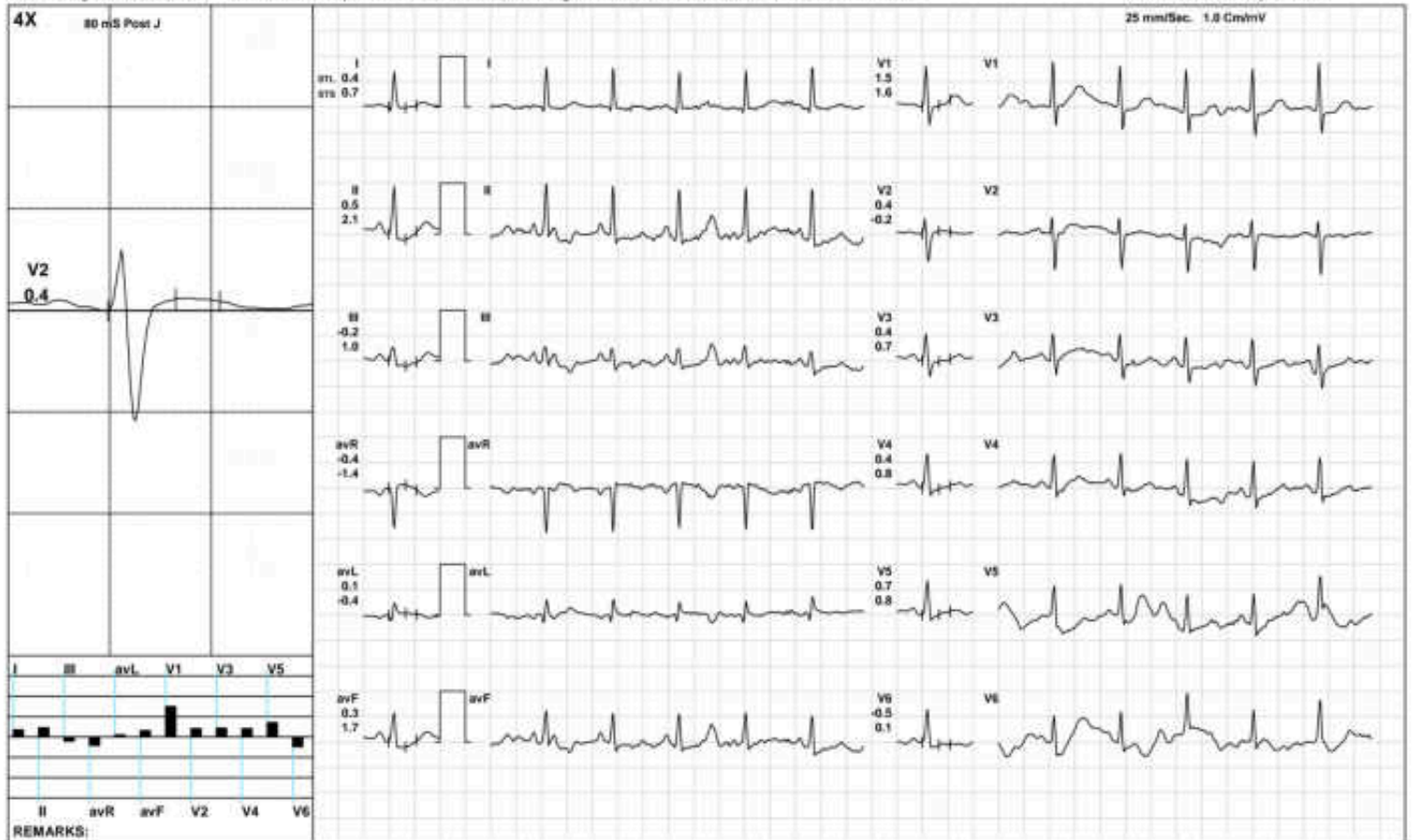
Recovery(2:00)



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 112

Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 112 bpm 60% of THR BP: 125/85 mmHg Raw ECG/ BLC On/ Natch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 09:00 1.1 mph 0.0%



(GEM212170900)(R)Kardic by Allergers

Recovery(3:05)



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 107

Date: 18-Aug-2024 09:49:46 AM METS: 1.0/ 107 bpm 57% of THR BP: 120/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 09:00 1.1 mph 0.0%



(GEM212170900)(R)Kardic by Allergers

ST Measurements



3037 / MRS.RANJANI SINHA / 34 Yrs / F / 152 Cms / 46 Kg / HR : 69

Date: 18-Aug-2024 09:49:46 AM

Protocol : BRUCE/

	I	II	III	avR	avL	avF	V1	V2	V3	V4	V5	V6	I	II	III	avR	avL	avF	V1	V2	V3	V4	V5	V6	STS(mv/sec)
STL(mm)Supine	0.9	1.2	0.3	-1.0	0.3	0.8	2.0	0.0	0.9	0.7	0.8	0.9	0.8	1.1	0.4	-1.0	0.2	0.8	1.4	6.9	0.7	0.8	0.7	0.8	
80 @mS Standing	0.9	1.2	0.3	-1.0	0.3	0.8	2.0	0.0	0.9	0.7	0.8	0.9	0.8	1.1	0.4	-1.0	0.2	0.8	1.4	6.9	0.7	0.8	0.7	0.8	
HV	0.6	0.9	0.4	-0.8	0.1	0.6	1.7	1.9	0.9	0.9	0.7	0.6	0.4	0.6	0.3	-0.5	0.1	0.4	1.0	0.1	0.6	0.6	0.4	0.4	
Warm Up	0.8	1.1	0.3	-1.0	0.2	0.8	2.0	2.2	0.9	1.0	0.8	0.8	0.7	1.0	0.3	-0.9	0.2	0.7	1.4	-0.3	0.7	0.9	0.7	0.8	
ExStart	0.5	0.4	-0.2	-0.5	0.3	0.2	1.1	-3.4	0.6	1.5	0.3	0.7	0.2	0.7	0.6	-0.5	-0.1	0.6	0.8	3.0	0.4	0.8	-0.1	0.1	
Stage 1	0.5	0.5	0.0	-0.5	0.4	0.2	0.8	0.0	0.3	1.0	0.4	-0.4	0.5	1.1	0.6	-0.8	0.2	0.8	1.2	0.2	0.7	3.1	0.7	-0.2	
Stage 2	1.2	-0.4	-0.2	0.6	-0.4	-0.1	0.7	1.7	0.6	-0.2	-0.6	0.5	-1.3	0.6	2.1	4.1	-0.9	1.0	2.1	2.5	1.6	1.1	0.9	-0.1	
PeakEx	-0.1	-1.1	-0.9	0.6	0.4	-1.0	-0.2	0.5	-0.6	-1.3	-0.8	0.0	0.2	0.9	0.6	-0.6	-0.1	0.8	1.2	0.4	1.1	0.6	0.6	0.0	
Recovery	0.0	0.1	0.1	-0.1	0.0	0.1	0.4	0.4	0.2	-0.4	0.4	0.0	0.1	1.6	1.5	-0.8	-0.6	1.5	1.2	0.3	1.4	1.0	0.7	0.0	
Recovery	0.4	0.5	-0.2	-0.4	0.1	0.3	1.5	0.4	0.4	0.4	0.7	-0.5	0.7	2.1	1.0	-1.4	-0.4	1.7	1.6	-0.2	0.7	0.8	0.8	0.1	
Recovery	0.1	-0.3	0.0	0.2	0.2	0.0	0.5	-0.2	-0.7	-0.3	0.7	-0.2	0.2	-0.4	-0.4	0.2	0.4	-0.3	0.8	-0.2	-0.2	0.1	-0.3	0.4	

	I	II	III	avR	avL	avF	V1	V2	V3	V4	V5	V6
STI(μVs)												
Supine	8.0	9.6	1.6	-8.8	3.2	5.6	16.0	-19.1	5.8	4.9	6.1	6.6
Standing	8.0	9.6	1.6	-8.8	3.2	5.6	16.0	-19.1	5.8	4.9	6.1	6.6
HV	7.0	9.7	3.0	-8.4	2.1	6.3	16.1	17.0	7.3	8.2	7.1	6.6
Warm Up	8.3	10.7	2.6	-9.5	2.9	6.7	16.8	7.6	6.6	8.6	7.2	7.2
ExStart	5.7	4.4	-2.9	-5.1	3.5	1.7	11.0	-25.3	4.9	10.4	4.6	7.3
Stage 1	3.1	1.7	-1.2	-2.4	2.6	0.2	3.3	-0.3	0.9	2.2	1.6	-3.3
Stage 2	11.1	-5.0	-6.9	-2.0	-1.7	-3.0	-1.5	5.2	0.3	-2.9	-5.6	0.3
PeakEx	-1.6	-6.6	-5.3	4.2	1.5	-5.2	-3.9	2.2	-5.5	-9.6	-6.7	0.0
Recovery	-0.1	-1.9	-1.8	1.0	0.8	-1.9	0.5	2.0	-0.6	-3.7	2.1	0.0
Recovery	1.7	-0.3	-3.3	-0.8	1.7	-1.0	8.4	3.6	2.0	2.1	4.5	-3.2
Recovery	0.6	-1.2	0.9	0.4	0.9	1.0	2.4	-1.6	-5.7	-2.4	5.7	-2.8



## Median Measurement Summary



3037 / MRS.RANJANI SINHA / 34 Yrs / Female / 152 Cm / 46 Kg

Time (Min.)	HR (bpm)	PR Int (mS)	QRS Wid (mS)	QRS Axis (Deg.)	QTC (mS)	P(μV) (Max)	R(μV) (Max)	S(μV) (Min)	T(μV) (Max)	Min. J (μV)	Leads for (J & P.J)	Min. Post JRR Var (μV)	(%)	VEB (Counts)	Missed Beats (Counts)
00:30	89	284	60	38	140	-730	948	-817	-1039	-81	II	-4	0.00	0	0
01:00	101	216	68	36	148	-421	909	-902	-1039	-304	V2	-41	0.00	0	0
01:30	114	112	60	38	472	-1832	1115	-787	-1430	-67	V6	-84	0.00	0	0
02:00	120	210	48	36	138	819	894	-569	-1039	-603	V4	-69	0.00	0	0
02:30	119	138	94	37	466	592	1153	-715	642	-101	II	-70	0.00	0	0
03:00	121	144	192	34	432	-1637	1081	-722	-3044	166	V4	-439	0.00	0	0
03:30	120	162	62	34	433	608	810	-738	-439	-282	V4	-340	0.00	0	0
04:00	122	156	72	33	269	679	831	-613	728	-202	V6	-178	0.00	0	0
04:30	128	154	62	32	305	-328	789	-730	-226	-35	V6	-191	0.00	0	0
05:00	134	114	-132	141	-49	1189	1308	-700	1308	-711	V6	-1090	0.00	0	0
05:30	133	114	-132	45	-49	680	1264	-613	-224	-20	V2	-328	0.00	0	0
06:00	133	82	-2	33	39	712	747	-632	1224	-20	V2	-328	0.00	0	0
06:30	133	68	68	214	261	514	521	-500	314	-336	V3	-242	0.00	0	0
07:00	133	68	68	125	261	-378	681	-212	-553	-336	V3	-242	0.00	0	0
07:30	133	68	68	40	261	500	805	-560	580	-336	V3	-242	0.00	0	0
08:00	162	126	42	24	128	315	795	-687	-400	-184	avF	-189	0.00	0	0
08:30	165	128	46	36	362	315	817	-703	-399	-193	II	-252	0.00	0	0
09:00	168	128	70	37	-197	315	860	-656	-399	-224	V4	-236	0.00	0	0
09:30	170	126	-114	5	77	198	724	-690	768	48	avL	-55	0.00	0	0
10:00	151	130	-124	28	84	217	807	-709	-807	12	avL	-50	0.00	0	0
10:30	130	80	84	28	416	265	816	-753	870	-124	V4	-63	0.00	0	0
11:00	124	114	-164	33	77	300	915	-805	915	-31	avL	-79	0.00	0	0
11:30	110	174	102	31	458	249	905	-824	936	-33	II	-115	0.00	0	0
12:00	112	140	54	35	191	188	991	-678	-178	-131	II	-140	0.00	0	0
12:30	103	118	50	30	116	243	1007	-836	-167	-112	II	-96	0.00	0	0



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**AAROGYAM DIAGNOSTICS**

(A UNIT OF CULPAM HEALTH CARE PVT.LTD.)

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Near Malahi Pakari Chowk, Kankarbagh, Patna-20  
9065875700  
info@aarogyamdiagnostics.com  
www.aarogyamdiagnostics.com

Name :- Ranjani Sinha  
Refd by :- Dr. Corp

Age/Sex:-34Yrs/F  
Date:-18/08/2024

Thanks for referral.

**REPORT OF USG OF WHOLE ABDOMEN**

- Liver** :- Normal in size(11.0cm) with normal echotexture. No focal or diffuse lesion is seen. IHBR are not dilated. PV is normal in course and calibre with echofree lumen.
- G. Bladder** :- It is normal in shape, size & position. No e/o mass, calculus or sludge is seen.
- CBD** :- It is normal in calibre & is echofree.
- Pancreas** :- Normal in shape, size & echotexture. No evidence of parenchymal / ductal calcification is seen. No definite peripancreatic collection is seen.
- Spleen** :- Normal in size(10.6cm) with normal echotexture. No focal lesion is seen. No evidence of varices is noticed.
- Kidneys** :- Both kidneys are normal in shape, size & position. Sinus as well as cortical echoes are normal. No evidence of calculus, space occupying lesion or hydronephrosis is seen.  
Right Kidney measures 7.8cm and Left Kidney measures 8.7cm.
- Ureters** :- Ureters are not dilated.
- U. Bladder**:- It is echofree. No evidence of calculus, mass or diverticulum is seen.
- Uterus** :- Normal in size (7.0cm x 1.9cm ) and anteverted in position with normal myometrial echotexture and endometrial thickness.
- Ovaries** :- Both ovaries show normal echotexture and follicular pattern.
- Others** :- No ascites or abdominal adenopathy is seen.  
No free subphrenic / basal pleural space collection is seen.

**IMPRESSION:-** Normal Scan.

*Dr. Arun Kumar*  
MBBS, DMRD (Radio-Diagnosis)  
Consultant Radiologist



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Near Malahi Pakari Chowk, Kankarbagh, Patna - 20

9264278360, 9065875700, 8789391403

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Date	18/08/2024	Srl No.	6	Patient Id	2408180006
Name	Mrs. RANJANI SINHA	Age	34 Yrs.	Sex	F
Ref. By	Dr.BOB				

Test Name	Value	Unit	Normal Value
BOB			
HB A1C	5.2	%	

### EXPECTED VALUES :-

Metabolically healthy patients	=	4.8 - 5.5 % HbA1C
Good Control	=	5.5 - 6.8 % HbA1C
Fair Control	=	6.8-8.2 % HbA1C
Poor Control	=	>8.2 % HbA1C

### REMARKS:-

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.

\*\*\*\* End Of Report \*\*\*\*

Dr.R.B.RAMAN  
MBBS, MD  
CONSULTANT PATHOLOGIST



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<b>Date</b>	<b>18/08/2024</b>	<b>Srl No. 6</b>	<b>Patient Id 2408180006</b>
<b>Name</b>	<b>Mrs. RANJANI SINHA</b>	<b>Age 34 Yrs.</b>	<b>Sex F</b>
<b>Ref. By Dr.BOB</b>			

Test Name	Value	Unit	Normal Value
COMPLETE BLOOD COUNT (CBC)			
HAEMOGLOBIN (Hb)	12.5	gm/dl	11.5 - 16.5
TOTAL LEUCOCYTE COUNT (TLC)	6,100	/cumm	4000 - 11000
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHIL	65	%	40 - 75
LYMPHOCYTE	30	%	20 - 45
EOSINOPHIL	02	%	01 - 06
MONOCYTE	03	%	02 - 10
BASOPHIL	00	%	0 - 0
ESR (WESTEGREN' s METHOD)	18	mm/1st hr.	0 - 20
R B C COUNT	4.69	Millions/cmm	3.8 - 4.8
P.C.V / HAEMATOCRIT	39.1	%	35 - 45
M C V	83.37	fl.	80 - 100
M C H	<b>26.65</b>	Picogram	27.0 - 31.0
M C H C	<b>32</b>	gm/dl	33 - 37
PLATELET COUNT	1.89	Lakh/cmm	1.50 - 4.00
BLOOD GROUP ABO	"A"		
RH TYPING	POSITIVE		
BLOOD SUGAR FASTING	79.8	mg/dl	70 - 110
SERUM CREATININE	0.81	mg%	0.5 - 1.3
BLOOD UREA	18.7	mg /dl	15.0 - 45.0
SERUM URIC ACID	4.33	mg%	2.5 - 6.0

**LIVER FUNCTION TEST (LFT)**



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9264278360, 9065875700, 8789391403

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<b>Date</b>	<b>18/08/2024</b>	<b>Srl No.</b>	<b>6</b>	<b>Patient Id</b>	<b>2408180006</b>
<b>Name</b>	<b>Mrs. RANJANI SINHA</b>	<b>Age</b>	<b>34 Yrs.</b>	<b>Sex</b>	<b>F</b>
<b>Ref. By</b>	<b>Dr.BOB</b>				

Test Name	Value	Unit	Normal Value
BILIRUBIN TOTAL	<b>1.50</b>	mg/dl	0 - 1.0
CONJUGATED (D. Bilirubin)	<b>0.48</b>	mg/dl	0.00 - 0.40
UNCONJUGATED (I.D.Bilirubin)	<b>1.02</b>	mg/dl	0.00 - 0.70
TOTAL PROTEIN	7.20	gm/dl	6.6 - 8.3
ALBUMIN	4.19	gm/dl	3.4 - 5.2
GLOBULIN	3.01	gm/dl	2.3 - 3.5
A/G RATIO	<b>1.392</b>		
SGOT	32.9	IU/L	5 - 35
SGPT	33.1	IU/L	5.0 - 45.0
ALKALINE PHOSPHATASE IFCC Method	77.1	U/L	35.0 - 104.0
GAMMA GT	25.0	IU/L	6.0 - 42.0

### LFT INTERPRET

### LIPID PROFILE

TRIGLYCERIDES	91.6	mg/dL	25.0 - 165.0
TOTAL CHOLESTEROL	149.5	mg/dL	29.0 - 199.0
H D L CHOLESTEROL DIRECT	38.9	mg/dL	35.1 - 88.0
V L D L	18.32	mg/dL	4.7 - 22.1
L D L CHOLESTEROL DIRECT	92.28	mg/dL	63.0 - 129.0
TOTAL CHOLESTEROL/HDL RATIO	3.843		0.0 - 4.97
LDL / HDL CHOLESTEROL RATIO	2.372		0.00 - 3.55
THYROID PROFILE			
QUANTITY	20	ml.	



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<b>Name</b>	<b>Mrs. RANJANI SINHA</b>	<b>Age</b>	<b>34 Yrs.</b>	<b>Sex</b>	<b>F</b>
<b>Ref. By</b>	<b>Dr.BOB</b>				

Test Name	Value	Unit	Normal Value
COLOUR	PALE YELLOW		
TRANSPARENCY	CLEAR		
SPECIFIC GRAVITY	1.030		
PH	6.0		
ALBUMIN	NIL		
SUGAR	NIL		
<b>MICROSCOPIC EXAMINATION</b>			
PUS CELLS	1-3	/HPF	
RBC'S	NIL	/HPF	
CASTS	NIL		
CRYSTALS	NIL		
EPITHELIAL CELLS	2-4	/HPF	
BACTERIA	NIL		
OTHERS	NIL		

Assay performed on enhanced chemi lumenescence system ( Centaur-Siemens)

Serum T3,T4 & TSH measurements form the three components of Thyroid screening panel, useful in diagnosing various disorders of Thyroid gland function.

1. Primary hypothyroidism is accompanied by depressed serum T3 and T4 values and elevated serum TSH level.
2. Primary hyperthyroidism is accompanied by elevated serum T3 and T4 levels along with depressed TSH values.
3. Normal T4 levels are accompanied by increased T3 in patients with T3 thyrotoxicosis.



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<b>Name</b>	<b>Mrs. RANJANI SINHA</b>	<b>Age</b>	<b>34 Yrs.</b>	<b>Sex</b>	<b>F</b>
<b>Ref. By</b>	<b>Dr.BOB</b>				

Test Name	Value	Unit	Normal Value
4. Slightly elevated T3 levels may be found in pregnancy and estrogen therapy, while depressed levels may be encountered in severe illness, renal failure and during therapy with drugs like propranolol and propyl thiouracil.			
5. Although elevated TSH levels are nearly always indicative of primary hypothyroidism, and may be seen in secondary thyrotoxicosis.			

\*\*\*\* End Of Report \*\*\*\*

**Dr.R.B.RAMAN**  
**MBBS, MD**  
**CONSULTANT PATHOLOGIST**



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Date	18/08/2024	Srl No.	6	Patient Id	2408180006
Name	Mrs. RANJANI SINHA	Age	34 Yrs.	Sex	F
Ref. By	Dr.BOB				

Test Name	Value	Unit	Normal Value
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## BIOCHEMISTRY

BLOOD SUGAR PP	110.5	mg/dl	80 - 160
BOB			

\*\*\*\* End Of Report \*\*\*\*

Dr.R.B.RAMAN  
MBBS, MD  
CONSULTANT PATHOLOGIST





MC-2024

Lab Facility : Unipath House, Besides Sahjanand College, Opp. Kamdhenu Complex, Panjarapole, Ambawadi, Ahmedabad-380015 Gujarat  
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Regd. Of- ce : 5th Floor, Doctor House, Nr. Parimal Garden, Ahmedabad-380006 Gujarat  
CIN: U85195GJ2009PLC057059



40804100456

**TEST REPORT**

<b>Reg.No</b> : 40804100456	<b>Reg.Date</b> : 19-Aug-2024 13:18	<b>Collection</b> : 19-Aug-2024 13:18
<b>Name</b> : RANJANI SINHA		<b>Received</b> : 19-Aug-2024 13:18
<b>Age</b> : 34 Years	<b>Sex</b> : Female	<b>Report</b> : 19-Aug-2024 16:03
<b>Referred By</b> : AAROGYAM DIAGNOSTICS @ PATNA		<b>Dispatch</b> : 19-Aug-2024 16:23
<b>Referral Dr</b> : <input type="checkbox"/>	<b>Status</b> : Final	<b>Location</b> : 41 - PATNA

Test Name	Results	Units	Bio. Ref. Interval
<b>THYROID FUNCTION TEST</b>			
T3 (triiodothyronine), Total <small>CMIA</small>	0.81	ng/mL	0.70 - 2.04
T4 (Thyroxine), Total <small>CMIA</small>	7.78	µg/dL	5.5 - 11.0
TSH (Thyroid stimulating hormone) <small>CMIA</small>	2.460	µIU/mL	0.35 - 4.94

**Sample Type:** Serum

**Comments:**

Thyroid stimulating hormone (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). Additionally, the hypothalamic tripeptide, thyrotropin-releasing hormone (TRH), directly stimulates TSH production. TSH stimulates thyroid cell production and hypertrophy, also stimulate the thyroid gland to synthesize and secrete T3 and T4. Quantification of TSH is significant to differentiate primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

**TSH levels During Pregnancy :**

- First Trimester : 0.1 to 2.5 µIU/mL
- Second Trimester : 0.2 to 3.0 µIU/mL
- Third trimester : 0.3 to 3.0 µIU/mL

Reference : Carl A.Burtis,Edward R.Ashwood,David E.Bruns, Tietz Textbook of Clinical Chemistry and Molecular Diagnostics, 5th Edition. Philadelphia: WB Saunders,2012:2170

----- End Of Report -----

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