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BarB

 ~~भारत सरकार~~
~~GOVERNMENT OF INDIA~~



धर्मेंद्र कुमार
Dharmendra Kumar
जन्म तिथि/ DOB: 16/12/1993
पुरुष / MALE



6278 1541 9638

आधार-आम आदमी का अधिकार

ID: 852

DHARMENDRA KUMAR

Male 29Years

23-07-2023 10:12:07 AM

HR : 74 bpm

P : 92 ms

PR : 143 ms

QRS : 83 ms

QT/QTc : 361/401 ms

P/QRS/T : 59/33/44 °

RV5/SV1 : 0.929/0.619 mV

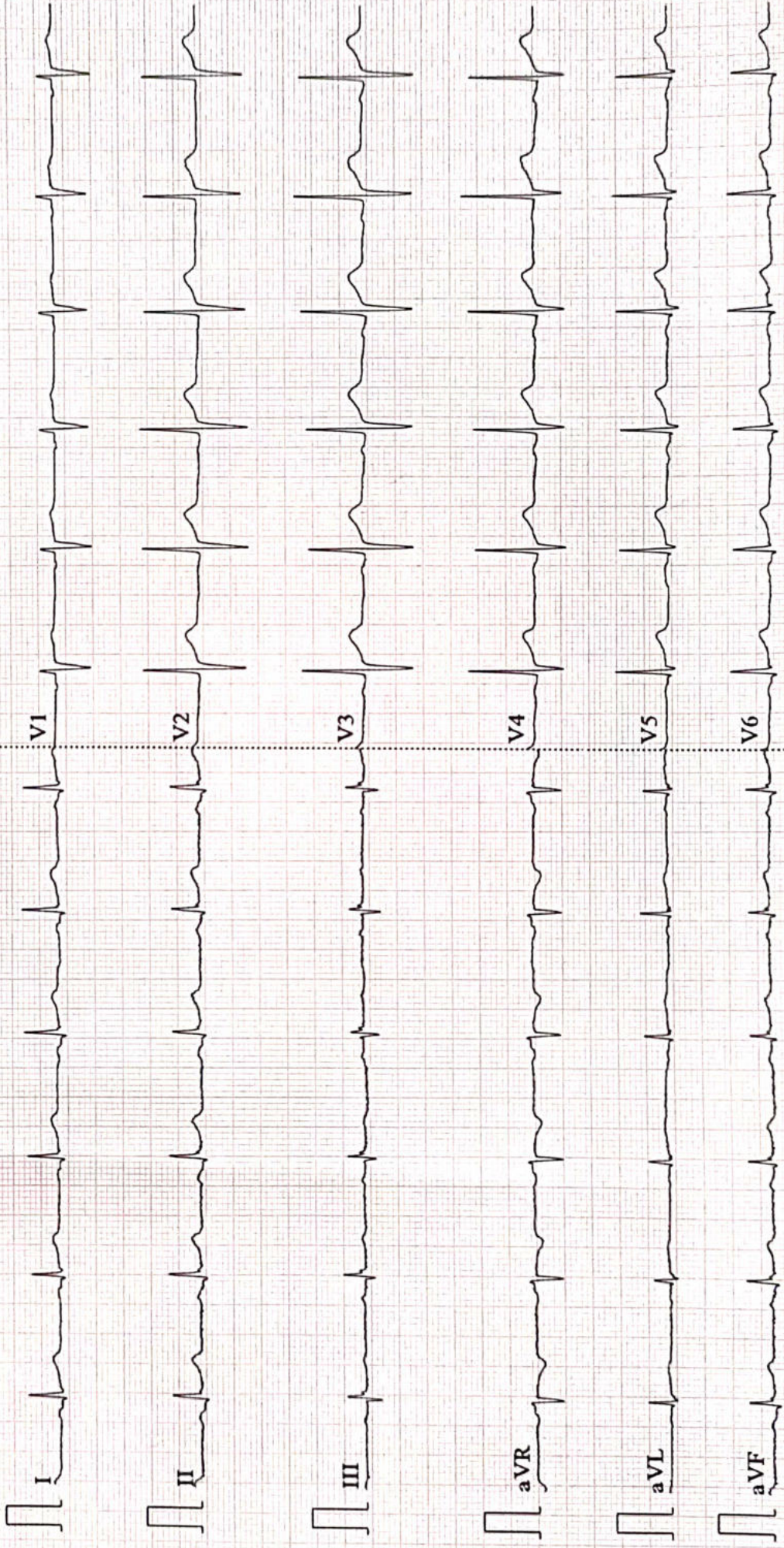
Diagnosis Information:

Sinus Rhythm

Normal ECG

Ref-Phys. :

Report Confirmed by:





ISO 9001 : 2015

AAROGYAM DIAGNOSTICS

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

F- 41, P.C. Colony, Opp. Madhuban Complex,
Near Malahi Pakari Chowk, Kankarbagh, Patna – 20

9264278360, 9065875700, 8789391403

info@aarogyamdiagnostics.com

www.aarogyamdiagnostics.com

Date	23/07/2023	Srl No.	3	Patient Id	2307230003
Name	Mr. DHARMENDRA KUMAR	Age	29 Yrs.	Sex	M
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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Name	Mr. DHARMENDRA KUMAR	Age	29 Yrs.	Sex	M
Ref. By	Dr.BOB				

Test Name	Value	Unit	Normal Value
COMPLETE BLOOD COUNT (CBC)			
HAEMOGLOBIN (Hb)	13.7	gm/dl	13.5 - 18.0
TOTAL LEUCOCYTE COUNT (TLC)	6,300	/cumm	4000 - 11000
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHIL	63	%	40 - 75
LYMPHOCYTE	31	%	20 - 45
EOSINOPHIL	01	%	01 - 06
MONOCYTE	05	%	02 - 10
BASOPHIL	00	%	0 - 0
ESR (WESTEGREN's METHOD)	13	mm/1st hr.	0 - 15
R B C COUNT	4.86	Millions/cmm	4.5 - 5.5
P.C.V / HAEMATOCRIT	40.4	%	40 - 54
M C V	83.13	fl.	80 - 100
M C H	28.19	Picogram	27.0 - 31.0
M C H C	33.9	gm/dl	33 - 37
PLATELET COUNT	2.40	Lakh/cmm	1.50 - 4.00
BLOOD GROUP ABO	"A"		
RH TYPING	POSITIVE		
BLOOD SUGAR FASTING	85.8	mg/dl	70 - 110
SERUM CREATININE	0.80	mg%	0.7 - 1.4
BLOOD UREA	21.9	mg /dl	15.0 - 45.0
SERUM URIC ACID	4.9	mg%	3.4 - 7.0

LIVER FUNCTION TEST (LFT)



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Name	Mr. DHARMENDRA KUMAR	Age 29 Yrs.	Sex M
Ref. By Dr.BOB			

Test Name	Value	Unit	Normal Value
BILIRUBIN TOTAL	0.71	mg/dl	0 - 1.0
CONJUGATED (D. Bilirubin)	0.29	mg/dl	0.00 - 0.40
UNCONJUGATED (I.D.Bilirubin)	0.42	mg/dl	0.00 - 0.70
TOTAL PROTEIN	6.9	gm/dl	6.6 - 8.3
ALBUMIN	3.9	gm/dl	3.4 - 5.2
GLOBULIN	3	gm/dl	2.3 - 3.5
A/G RATIO	1.3		
SGOT	44.3	IU/L	5 - 40
SGPT	47.0	IU/L	5.0 - 55.0
ALKALINE PHOSPHATASE IFCC Method	87.4	U/L	40.0 - 130.0
GAMMA GT	23.9	IU/L	8.0 - 71.0

LFT INTERPRET

LIPID PROFILE

TRIGLYCERIDES	95.4	mg/dL	25.0 - 165.0
TOTAL CHOLESTEROL	135.8	mg/dL	29.0 - 199.0
H D L CHOLESTEROL DIRECT	55.7	mg/dL	35.1 - 88.0
V L D L	19.08	mg/dL	4.7 - 22.1
L D L CHOLESTEROL DIRECT	61.02	mg/dL	63.0 - 129.0
TOTAL CHOLESTEROL/HDL RATIO	2.438		0.0 - 4.97
LDL / HDL CHOLESTEROL RATIO	1.096		0.00 - 3.55
THYROID PROFILE			
QUANTITY	15	ml.	



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Name	Mr. DHARMENDRA KUMAR	Age	29 Yrs.	Sex	M
Ref. By	Dr.BOB				

Test Name	Value	Unit	Normal Value
COLOUR	PALE YELLOW		
TRANSPARENCY	CLEAR		
SPECIFIC GRAVITY	1.010		
PH	6.5		
SUGAR	NIL		
MICROSCOPIC EXAMINATION			
PUS CELLS	1-2	/HPF	
RBC'S	NIL	/HPF	
CASTS	NIL		
CRYSTALS	NIL		
EPITHELIAL CELLS	1-3	/HPF	
BACTERIA	NIL		
OTHERS	NIL		

Assay performed on enhanced chemi luminescence 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.
4. Slightly elevated T3 levels may be found in pregnancy and estrogen therapy, while depressed levels



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Name	Mr. DHARMENDRA KUMAR	Age	29 Yrs.	Sex	M
Ref. By	Dr.BOB				

Test Name	Value	Unit	Normal Value
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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 ****

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AAROGYAM DIAGNOSTICS
PATNA

Report



(GEM212170906)(R)Kardic by Allengers

2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg Date: 23-Jul-2023 Technician : ARUN

Stage	Time	Duration	Belt Speed (mph)	Elevation	METs	Rate	% THR Achieved	BP	RPP	PVC	Comments
Supine	00:03	0:01	00.0	00.0	01.0	79	41 %	110/80	086	00	
Standing	00:09	0:01	00.0	00.0	01.0	78	41 %	110/80	085	00	
HV	00:17	0:01	00.0	00.0	01.0	081	42 %	110/80	089	00	
Warm Up	00:32	0:01	01.0	00.0	01.0	076	40 %	110/80	083	00	
ExStart	01:01	0:06	01.7	10.0	01.1	100	52 %	110/80	110	00	
BRUCE/ Stage 1	04:01	3:00	01.7	10.0	04.7	128	67 %	115/85	147	00	
BRUCE/ Stage 2	07:01	3:00	02.5	12.0	07.1	146	76 %	120/90	175	00	
PeakEx	09:02	2:01	03.4	14.0	09.2	169	88 %	125/95	211	00	
Recovery	10:01	1:00	01.1	00.0	01.2	145	76 %	120/90	174	00	
Recovery	11:01	2:00	01.1	00.0	01.0	129	68 %	115/85	148	00	
Recovery	12:35	3:33	01.1	00.0	01.0	117	61 %	110/80	128	00	

Findings :

Exercise Time : 08:02
Max HR Attained : 191 bpm 100% of Target 191
Max BP Attained : (Sys) 125/95
Max WorkLoad Attained : 9.2 Good response to induced stress
Max ST Dep Lead & Value : III & -0.9 mm in PeakEx mm
Test End Reasons : Test Complete

Report :

AAROGYAM DIAGNOSTICS

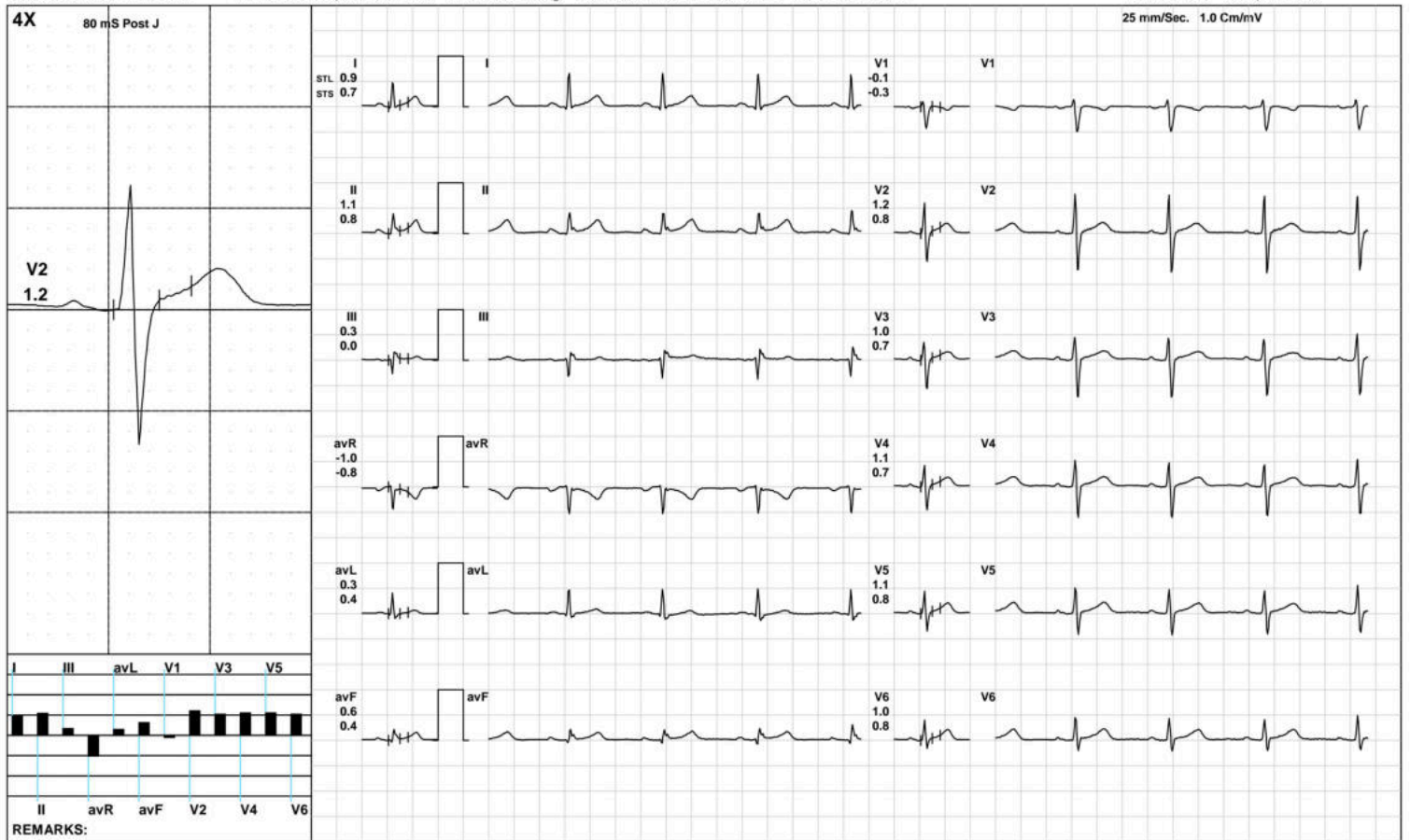
Supine



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 79

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 79 bpm 41% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:03 0.0 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

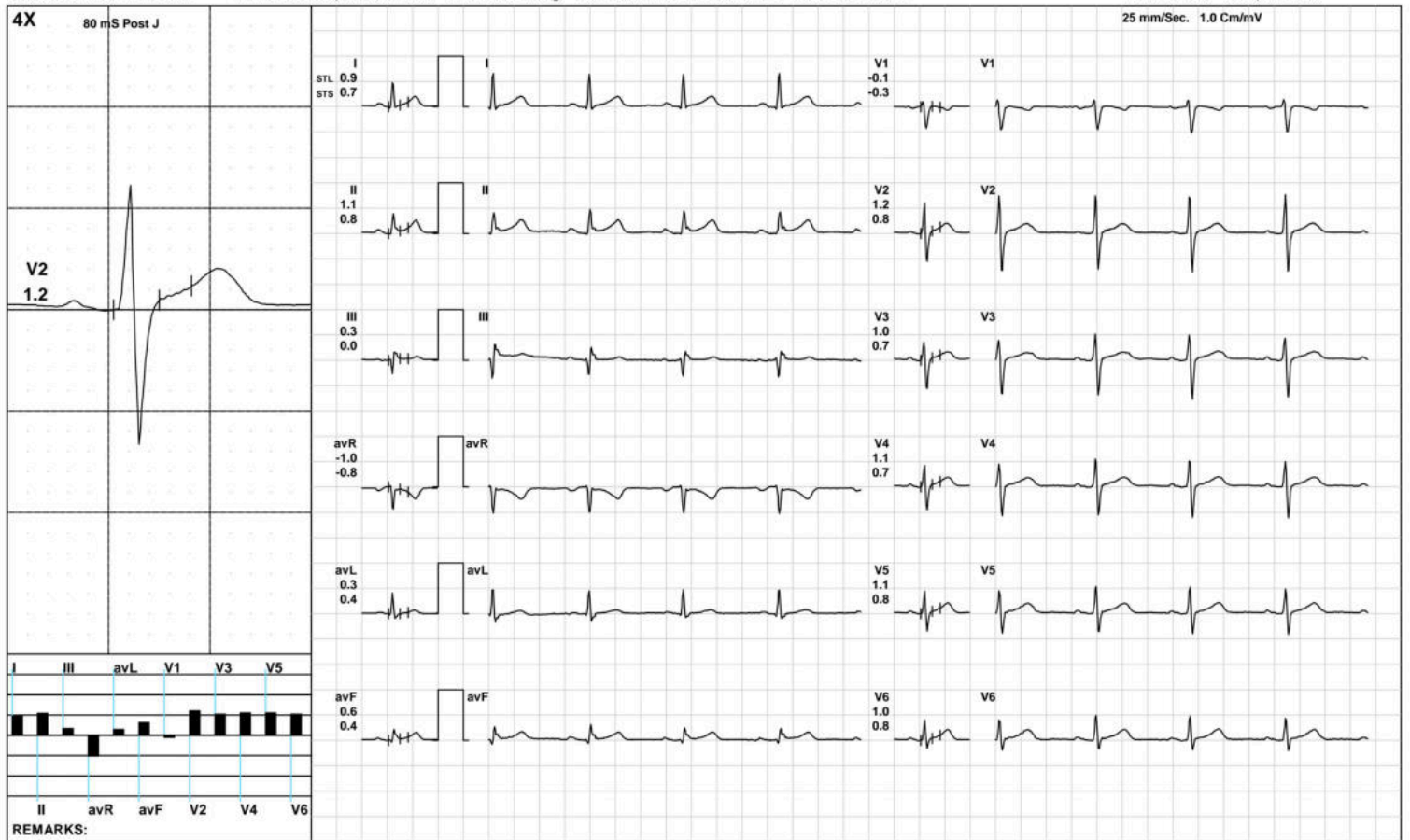
Standing



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 78

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 78 bpm 40% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:09 0.0 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

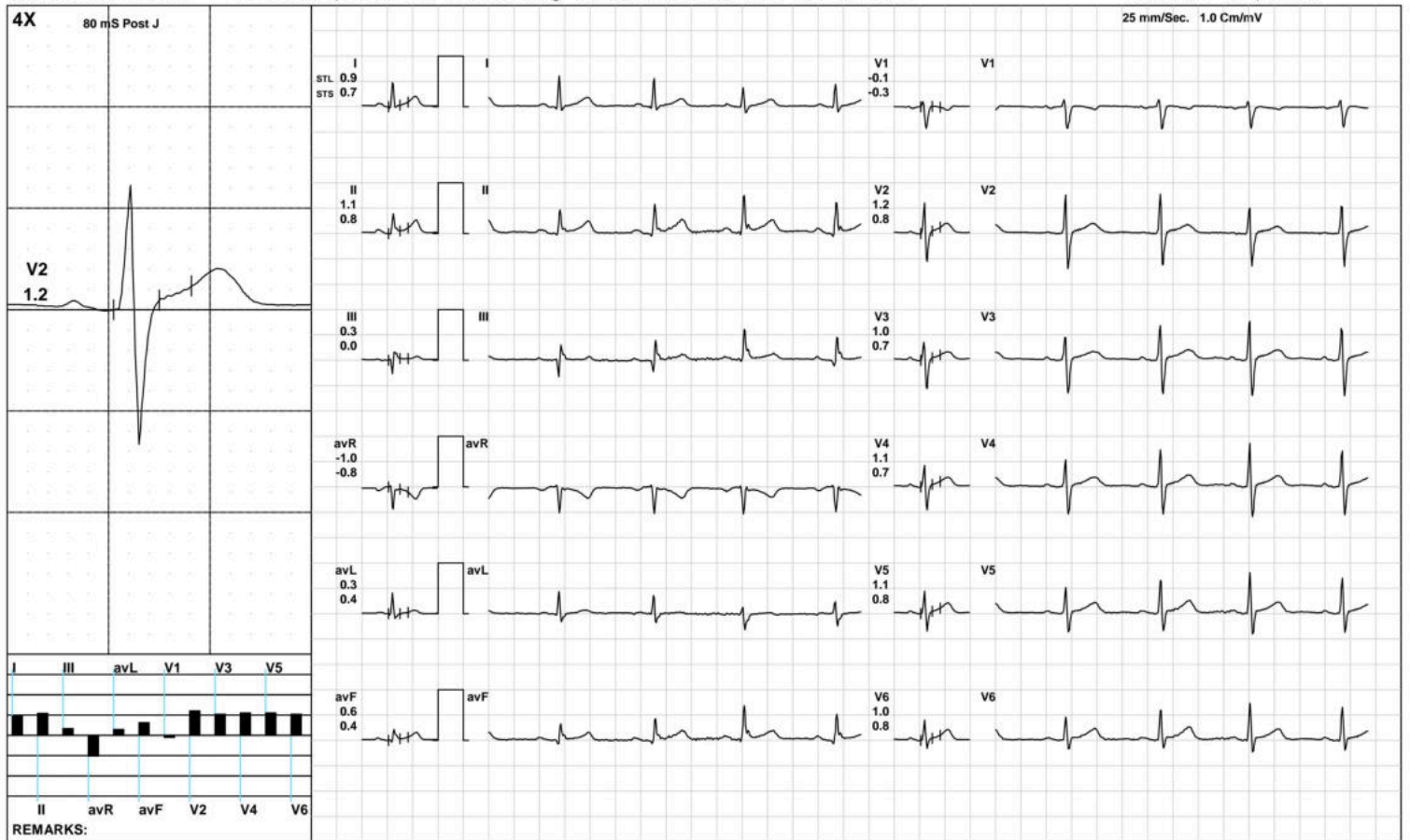
HV



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 81

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 81 bpm 42% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:17 0.0 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

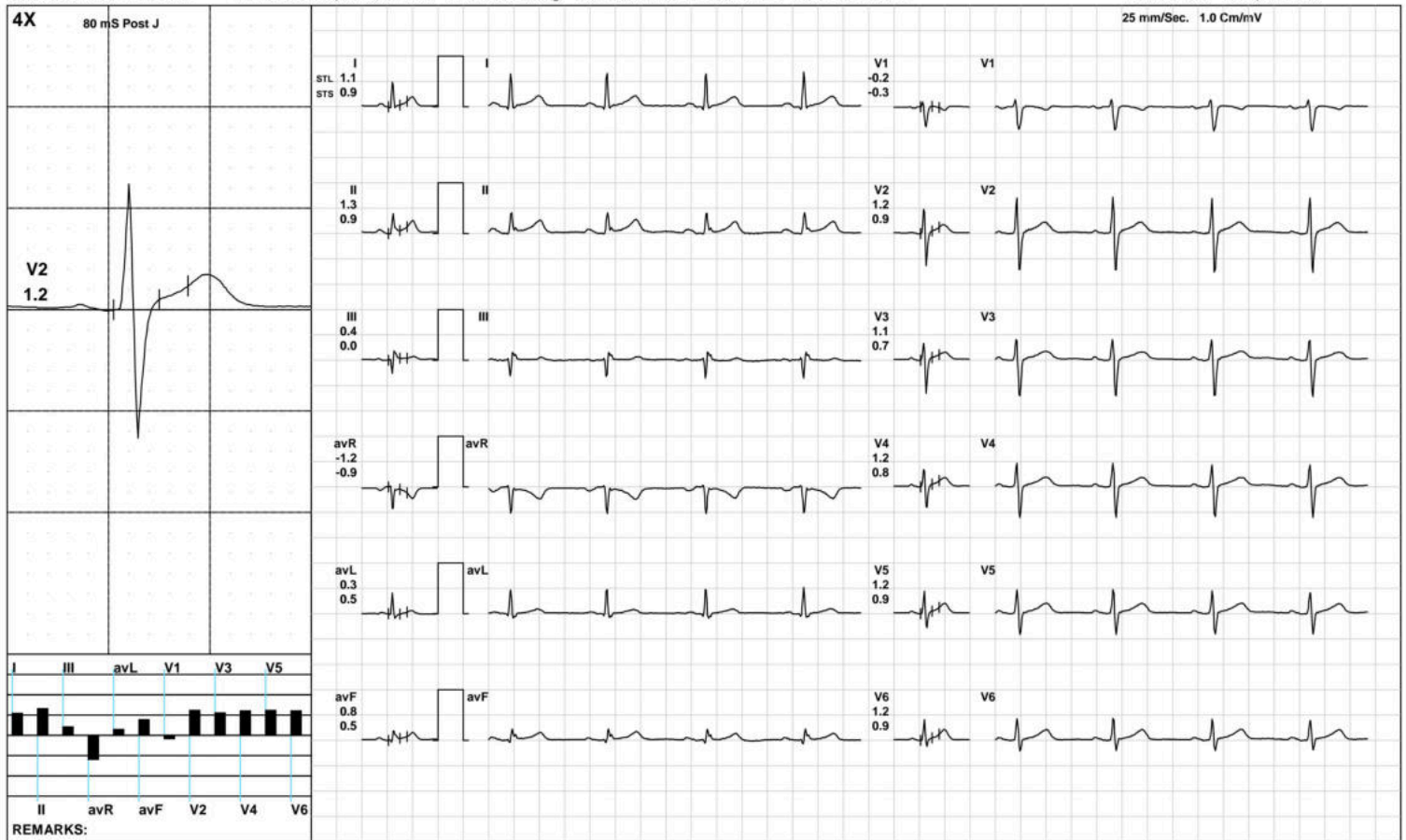
Warm Up



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 76

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 76 bpm 39% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:32 1.0 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

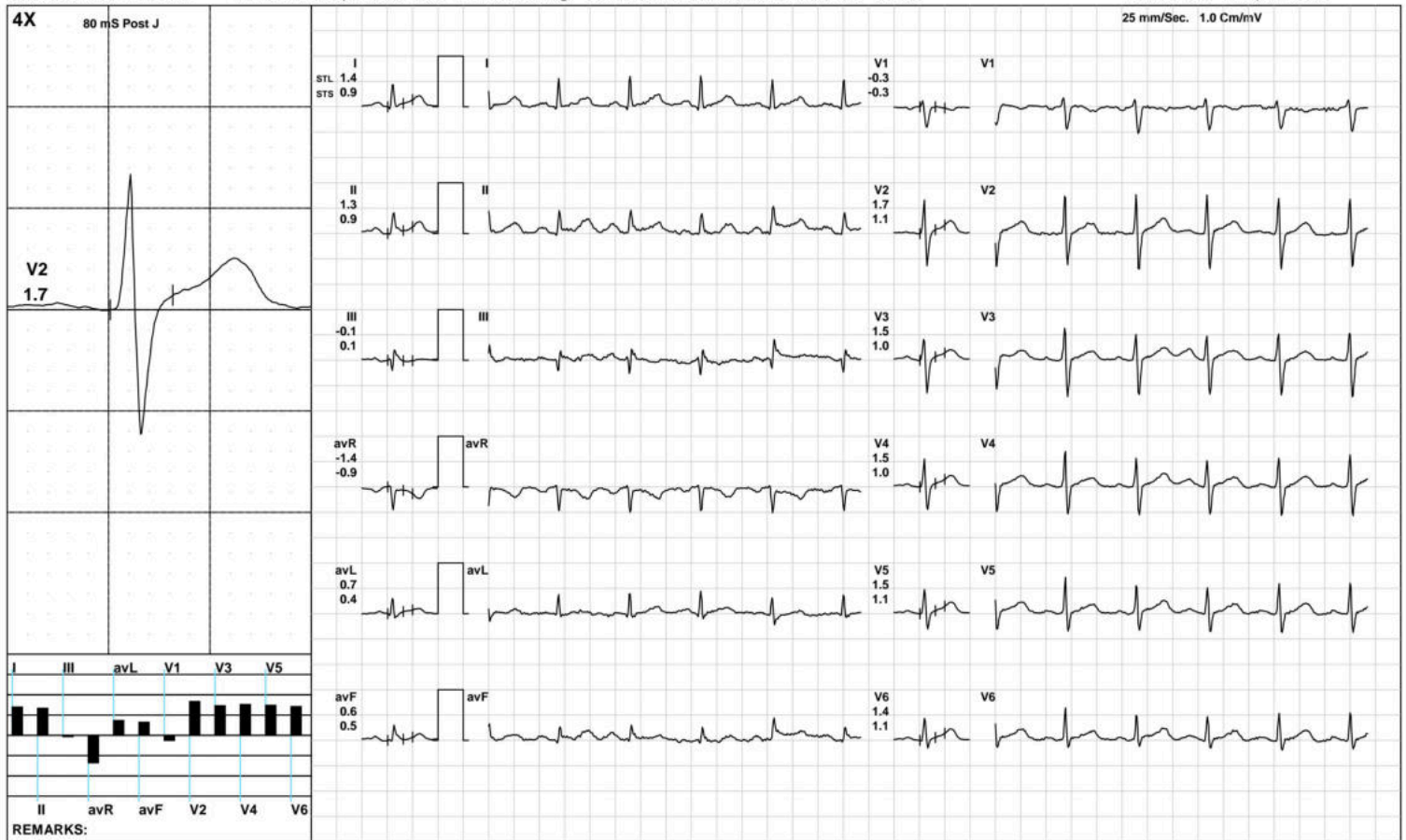
ExStart



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 100

Date: 23-Jul-2023 11:38:18 AM METS: 1.1/ 100 bpm 52% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 00:06 1.7 mph, 10.0%



AAROGYAM DIAGNOSTICS

BRUCE: Stage 1(3:00)



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 128

Date: 23-Jul-2023 11:38:18 AM METS: 4.7/ 128 bpm 67% of THR BP: 115/85 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 03:00 1.7 mph, 10.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

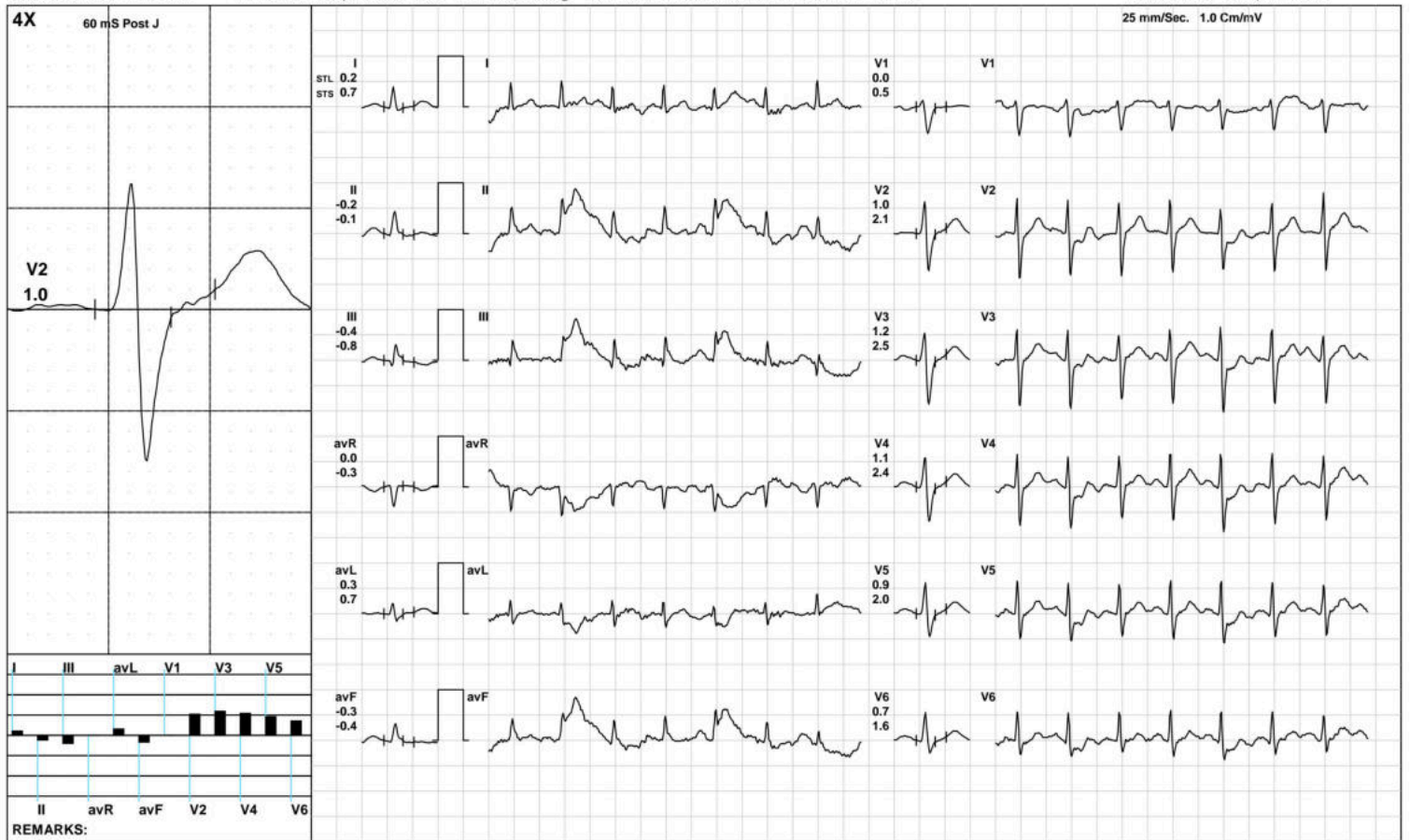
BRUCE: Stage 2(3:00)



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 146

Date: 23-Jul-2023 11:38:18 AM METS: 7.1/ 146 bpm 76% of THR BP: 120/90 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 06:00 2.5 mph, 12.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

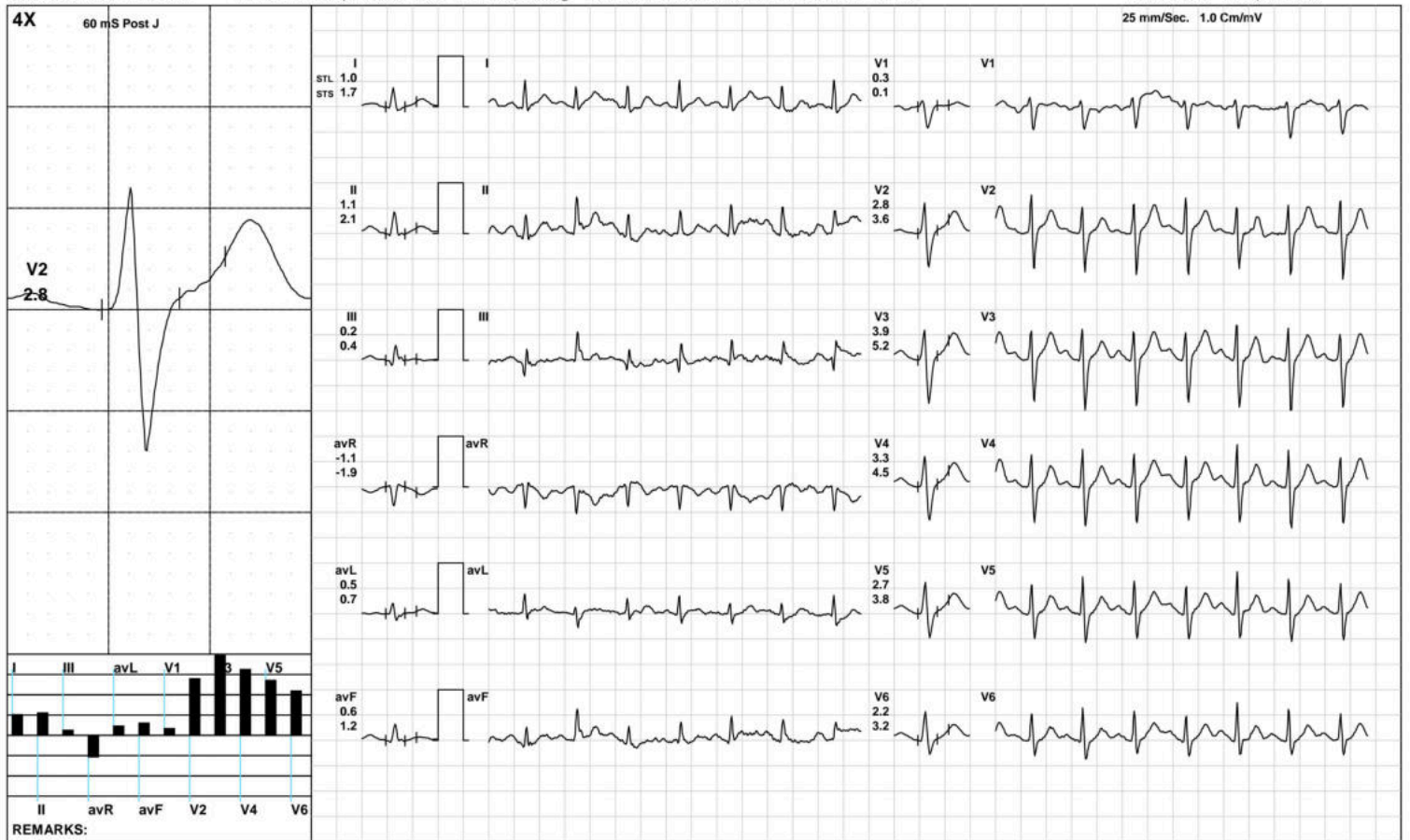
Recovery(1:00)



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 145

Date: 23-Jul-2023 11:38:18 AM METS: 1.2/ 145 bpm 75% of THR BP: 120/90 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 08:02 1.1 mph, 0.0%



AAROGYAM DIAGNOSTICS

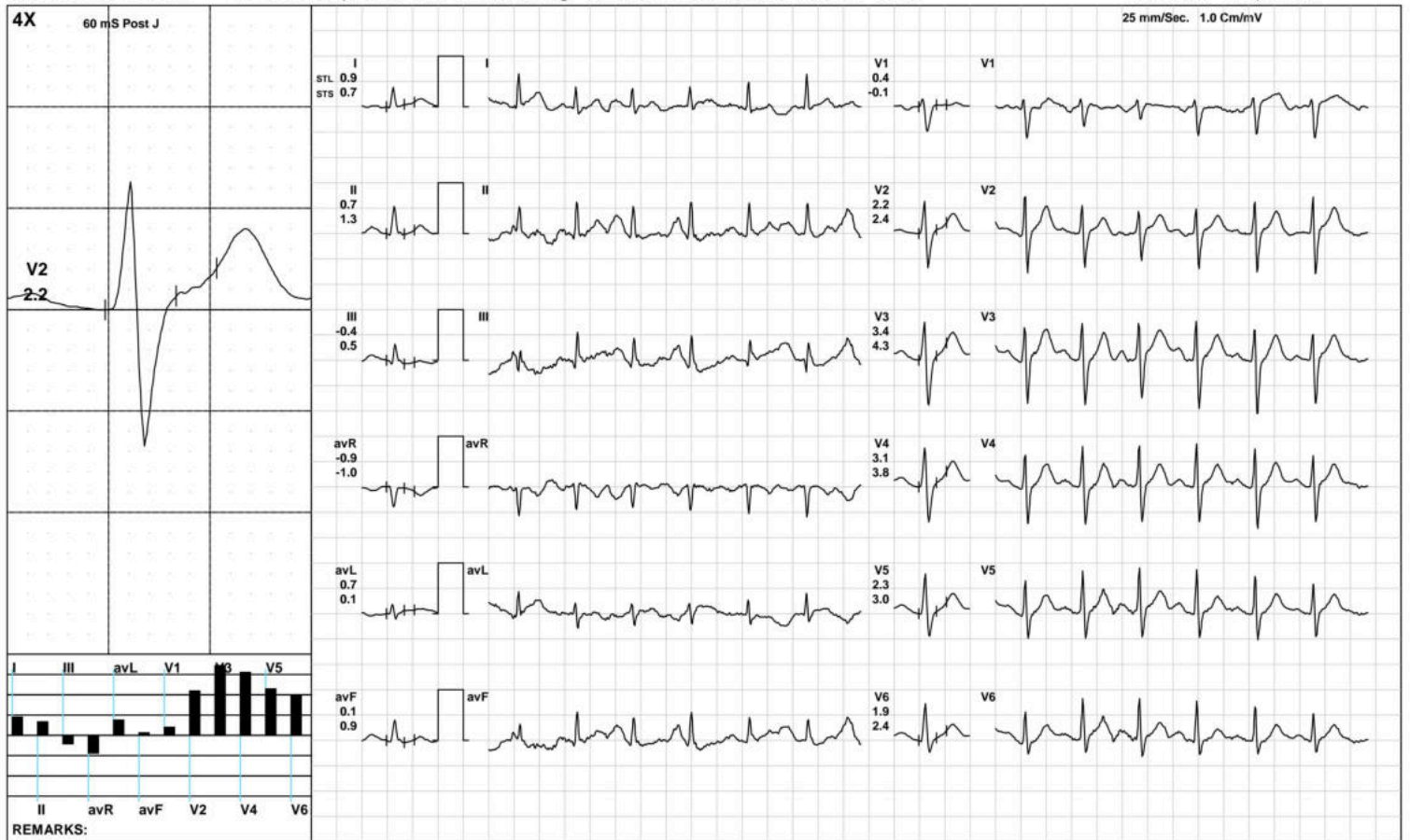
Recovery(2:00)



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 129

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 129 bpm 67% of THR BP: 115/85 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 08:02 1.1 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

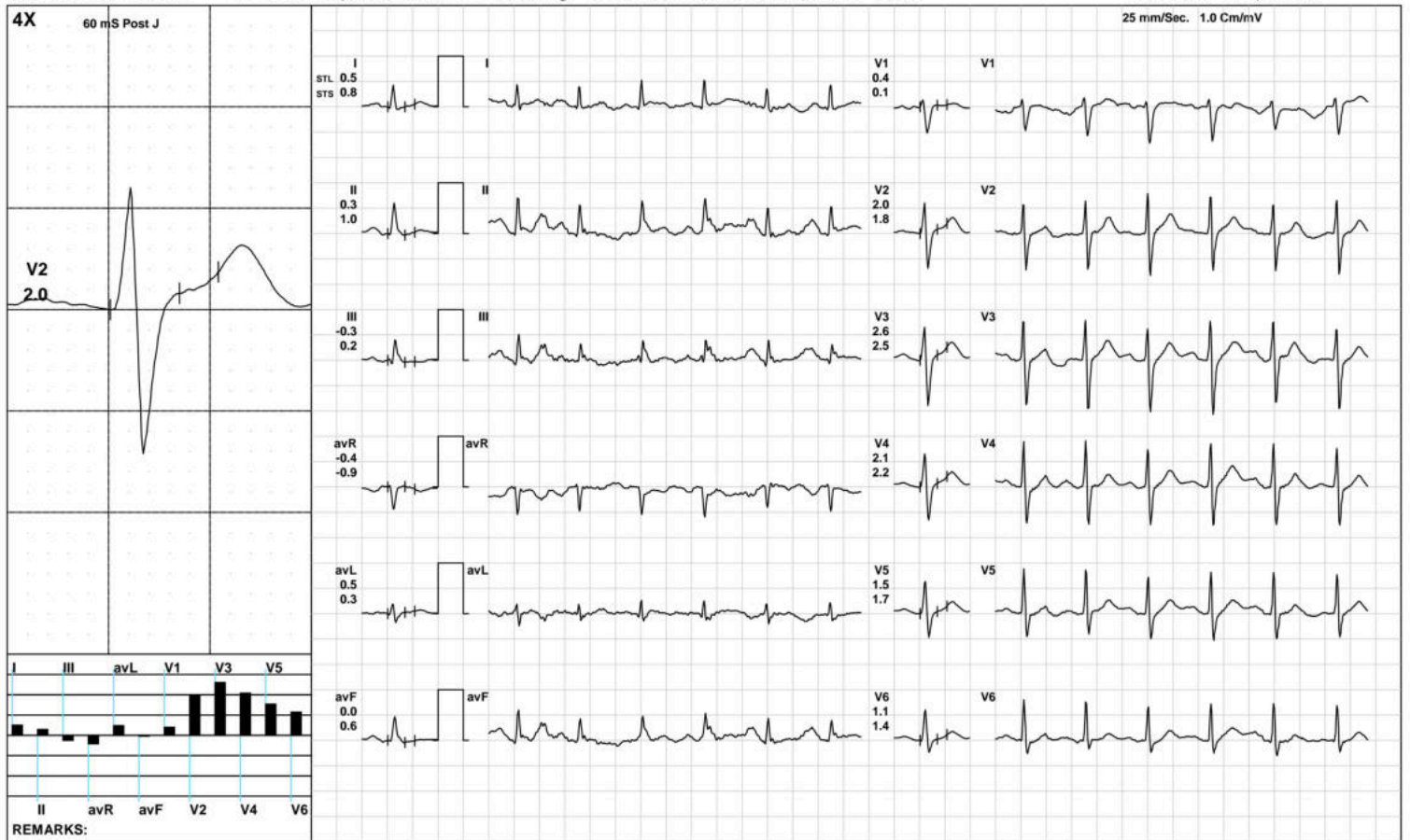
Recovery(3:33)



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 117

Date: 23-Jul-2023 11:38:18 AM METS: 1.0/ 117 bpm 61% of THR BP: 110/80 mmHg Raw ECG/ BLC On/ Notch On/ HF 0.05 Hz/LF 100 Hz

ExTime: 08:02 1.1 mph, 0.0%



(GEM212170906)(R)Kardic by Allengers

AAROGYAM DIAGNOSTICS

ST Measurements



2152 / MR. DHARMENDRA KUMAR / 29 Yrs / M / 173 Cms / 101 Kg / HR : 75

Date: 23-Jul-2023 11:38:18 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	1.1	0.3	-1.0	0.3	0.6	-0.1	1.2	1.0	1.1	1.1	1.0	0.7	0.8	0.0	-0.8	0.4	0.4	-0.3	0.8	0.7	0.7	0.8	0.8	
60 @mS Standing	0.9	1.1	0.3	-1.0	0.3	0.6	-0.1	1.2	1.0	1.1	1.1	1.0	0.7	0.8	0.0	-0.8	0.4	0.4	-0.3	0.8	0.7	0.7	0.8	0.8	
HV	0.9	1.1	0.3	-1.0	0.3	0.6	-0.1	1.2	1.0	1.1	1.1	1.0	0.7	0.8	0.0	-0.8	0.4	0.4	-0.3	0.8	0.7	0.7	0.8	0.8	
Warm Up	1.1	1.3	0.4	-1.2	0.3	0.8	-0.2	1.2	1.1	1.2	1.2	1.2	0.9	0.9	0.0	-0.9	0.5	0.5	-0.3	0.9	0.7	0.8	0.9	0.9	
ExStart	1.2	1.4	0.2	-1.3	0.5	0.8	-0.1	1.6	1.5	1.5	1.5	1.5	1.0	1.3	0.4	-1.1	0.3	0.9	-0.3	1.1	0.8	1.0	1.1	1.0	
Stage 1	1.1	0.8	-0.4	-0.9	0.8	0.2	-0.2	1.7	1.7	1.6	1.5	1.4	1.3	1.2	-0.2	-1.3	0.7	0.5	-0.2	1.9	2.0	2.0	1.9	1.7	
Stage 2	1.1	1.6	0.4	-1.3	0.3	1.0	-0.2	1.2	1.4	1.1	1.0	0.8	1.4	2.3	1.0	-1.8	0.2	1.6	-0.5	1.5	1.9	1.6	1.5	1.1	
PeakEx	0.2	-0.4	-0.9	0.0	0.3	-0.5	0.6	0.9	1.1	0.7	0.5	0.4	1.1	-0.1	-1.8	-0.1	1.6	-0.6	2.7	4.7	5.8	5.2	4.4	3.0	
Recovery	0.9	1.2	0.4	-1.0	0.3	0.8	0.5	2.8	3.8	3.3	2.7	2.1	1.3	2.5	1.1	-1.9	0.1	1.8	0.2	3.6	5.0	4.6	4.0	3.2	
Recovery	0.3	0.4	0.2	-0.4	0.0	0.4	0.8	2.9	4.8	3.6	3.0	2.2	1.2	1.7	0.5	-1.4	0.3	1.1	0.6	3.0	5.3	4.2	3.5	2.8	
Recovery	0.5	0.3	-0.3	-0.4	0.5	0.0	0.4	2.0	2.6	2.1	1.5	1.1	0.8	1.0	0.2	-0.9	0.3	0.6	0.1	1.8	2.5	2.2	1.7	1.4	

	I	II	III	avR	avL	avF	V1	V2	V3	V4	V5	V6
STI(μVs)												
Supine	8.9	10.8	3.2	-9.9	2.6	6.3	-1.6	10.3	8.9	9.6	9.9	9.7
Standing	8.9	10.8	3.2	-9.9	2.6	6.3	-1.6	10.3	8.9	9.6	9.9	9.7
HV	8.9	10.8	3.2	-9.9	2.6	6.3	-1.6	10.3	8.9	9.6	9.9	9.7
Warm Up	9.3	12.0	4.1	-10.6	2.2	7.4	-1.9	9.6	9.1	10.1	10.5	10.4
ExStart	9.9	11.0	1.0	-10.6	4.5	6.1	-0.8	12.7	11.5	11.8	11.8	11.5
Stage 1	4.6	2.5	-2.1	-3.5	3.4	0.2	-0.6	6.7	6.6	6.4	5.8	5.1
Stage 2	4.3	5.5	0.8	-4.9	1.5	3.4	-0.7	3.8	4.0	3.3	2.9	2.2
PeakEx	0.2	-2.3	-3.7	0.1	0.3	-2.9	0.1	-0.1	0.0	-1.3	-1.9	-1.6
Recovery	2.3	2.4	0.2	-2.4	1.5	1.3	2.9	9.2	12.5	10.0	8.3	6.1
Recovery	-0.4	-0.2	0.2	0.3	-0.3	0.3	4.0	11.7	19.5	14.0	11.8	8.2
Recovery	2.2	0.6	-2.1	-1.7	2.7	-0.9	2.1	10.0	12.8	10.2	7.2	4.9

Median Measurement Summary



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 & PJ)	Min. Post JRR Var (μV)	(%)	VEB (Counts)	Missed Beats (Counts)
00:30	96	230	66	33	436	120	711	-734	266	105	III	-16	0.00	0	0
01:00	112	96	66	29	337	120	732	-689	232	-20	V1	-15	0.00	0	0
01:30	123	90	66	33	448	131	718	-721	161	-13	V1	-10	0.00	0	0
02:00	127	158	86	36	444	126	706	-732	220	-14	V1	-14	0.00	0	0
02:30	131	132	86	37	435	139	675	-734	243	-10	V1	-11	0.00	0	0
03:00	132	150	88	37	433	141	679	-738	260	-12	V1	-6	0.00	0	0
03:30	128	152	64	38	437	135	690	-758	289	67	III	-34	0.00	0	0
04:00	138	130	88	36	438	156	682	-757	282	12	III	-28	0.00	0	0
04:30	142	138	66	43	322	118	644	-808	253	57	III	-75	0.00	0	0
05:00	146	80	64	37	432	137	669	-830	268	30	III	-65	0.00	0	0
05:30	143	130	66	38	428	132	620	-845	271	42	III	-52	0.00	0	0
06:00	146	126	64	41	326	134	572	-854	276	68	III	-18	0.00	0	0
06:30	146	128	66	47	410	178	643	-885	293	14	avF	-65	0.00	0	0
07:00	149	126	64	47	399	178	643	-885	293	14	avF	-65	0.00	0	0
07:30	160	122	66	31	308	152	564	-892	-352	-86	avF	-316	0.00	0	0
08:00	164	76	64	38	321	135	529	-897	266	25	III	-41	0.00	0	0
08:30	167	102	62	48	350	119	516	-851	288	-17	III	-136	0.00	0	0
09:00	165	114	64	43	307	227	625	-901	388	-9	avF	-77	0.00	0	0
09:30	147	126	86	44	412	193	668	-921	533	-43	III	8	0.00	0	0
10:00	136	144	86	44	423	190	725	-919	558	-4	III	-22	0.00	0	0
10:30	131	134	86	43	430	185	869	-963	602	-69	III	-59	0.00	0	0
11:00	128	156	66	38	427	176	791	-927	489	-71	avL	-8	0.00	0	0
11:30	123	158	86	34	433	178	776	-920	-912	-24	III	-8	0.00	0	0
12:00	119	168	84	51	438	186	767	-902	388	3	III	-26	0.00	0	0



Name :- Dharmendra Kumar
Refd by :- CORP

Age/Sex:- 29Yrs/M
Date :-23/07/23

Thanks for referral.

REPORT OF USG OF WHOLE ABDOMEN

- Liver** :- Enlarged in size (16.7cm)with raised 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. It is echofree & shows no evidence of calculus, mass or sludge.
- 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 (8.6cm)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 9.5cm and Left Kidney measures 9.1cm.
- Ureters** :- Ureters are not dilated.
- U. Bladder**:- It is echofree. No evidence of calculus, mass or diverticulum is seen.
- Prostate** :- Normal in size (9.9cc)& echotexture.
- Others** :- No ascites or abdominal adenopathy is seen.
No free subphrenic / basal pleural space collection is seen.

IMPRESSION:- *Hepatomegaly with Grade I Fatty Liver.
Otherwise Normal Scan.*

Dr. U. Kumar
MBBS, MD (Radio-Diagnosis)
Consultant Radiologist



MC-2024

Lab Facility : Unipath House, Besides Sahjanand College, Opp. Kamdhenu Complex, Panjarapole, Ambawadi, Ahmedabad-380015 Gujarat
Phone: +91-79-49006800 | WhatsApp: 6356005900 | Email: info@unipath.in | Website: www.unipath.in
Regd. Of. ce : 5th Floor, Doctor House, Nr. Parimal Garden, Ahmedabad-380006 Gujarat
CIN: UB5195GJ2009PLC057059



30704100448

TEST REPORT

Reg.No : 30704100448	Reg.Date : 24-Jul-2023 12:35	Collection : 24-Jul-2023 12:35
Name : DHARMENDRA KUMAR		Received : 24-Jul-2023 12:35
Age : 29 Years	Sex : Male	Report : 24-Jul-2023 13:35
Referred By : AAROGYAM DIAGNOSTICS @ PATNA		Dispatch : 24-Jul-2023 13:54
Referral Dr : □	Status : Final	Location : 41 - PATNA

Test Name	Results	Units	Bio. Ref. Interval
THYROID FUNCTION TEST			
T3 (triiodothyronine)	1.05	ng/mL	0.6 - 1.52
T4 (Thyroxine) <small>CMIA</small>	8.69	µg/dL	5.5 - 11.0
TSH (ultra sensitive) <small>CMIA</small>	3.447	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 -----

Dr. Avani Patel

M.D. Biochemistry

Reg No.- G-34103