

Name : Mr. Sundaram
PID No. : MED111518217
SID No. : 423010595
Age / Sex : 34 Year(s) / Male
Type : OP
Ref. Dr : MediWheel

Register On : 25/02/2023 9:44 AM
Collection On : 25/02/2023 11:22 AM
Report On : 25/02/2023 5:59 PM
Printed On : 27/02/2023 10:48 AM

<u>Investigation</u>	<u>Observed Value</u>	<u>Unit</u>	<u>Biological Reference Interval</u>
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HAEMATOLOGY

Complete Blood Count With - ESR

Haemoglobin (EDTA Blood/Spectrophotometry)	15.5	g/dL	13.5 - 18.0
Packed Cell Volume(PCV)/Haematocrit (EDTA Blood)	45.5	%	42 - 52
RBC Count (EDTA Blood)	5.41	mill/cu.mm	4.7 - 6.0
Mean Corpuscular Volume(MCV) (EDTA Blood)	84.1	fL	78 - 100
Mean Corpuscular Haemoglobin(MCH) (EDTA Blood)	28.6	pg	27 - 32
Mean Corpuscular Haemoglobin concentration(MCHC) (EDTA Blood)	34.0	g/dL	32 - 36
RDW-CV (EDTA Blood)	13.0	%	11.5 - 16.0
RDW-SD (EDTA Blood)	38.9	fL	39 - 46
Total Leukocyte Count (TC) (EDTA Blood)	8200	cells/cu.mm	4000 - 11000
Neutrophils (EDTA Blood)	68.6	%	40 - 75
Lymphocytes (EDTA Blood)	23.7	%	20 - 45
Eosinophils (EDTA Blood)	2.0	%	01 - 06
Monocytes (EDTA Blood)	5.2	%	01 - 10


Dr Anusha.K.S
Sr.Consultant Pathologist
Reg No : 100674
APPROVED BY

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Basophils (Blood)	0.5	%	00 - 02
INTERPRETATION: Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.			
Absolute Neutrophil count (EDTA Blood)	5.6	10 ³ / μ l	1.5 - 6.6
Absolute Lymphocyte Count (EDTA Blood)	2.0	10 ³ / μ l	1.5 - 3.5
Absolute Eosinophil Count (AEC) (EDTA Blood)	0.2	10 ³ / μ l	0.04 - 0.44
Absolute Monocyte Count (EDTA Blood)	0.4	10 ³ / μ l	< 1.0
Absolute Basophil count (EDTA Blood)	0.0	10 ³ / μ l	< 0.2
Platelet Count (EDTA Blood)	336	10 ³ / μ l	150 - 450
MPV (EDTA Blood)	8.8	fL	7.9 - 13.7
PCT (EDTA Blood/Automated Blood cell Counter)	0.295	%	0.18 - 0.28
ESR (Erythrocyte Sedimentation Rate) (Citratd Blood)	4	mm/hr	< 15


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BIOCHEMISTRY

Liver Function Test

Bilirubin(Total) (Serum/DCA with ATCS)	0.43	mg/dL	0.1 - 1.2
Bilirubin(Direct) (Serum/Diazotized Sulfanilic Acid)	0.13	mg/dL	0.0 - 0.3
Bilirubin(Indirect) (Serum/Derived)	0.30	mg/dL	0.1 - 1.0
SGOT/AST (Aspartate Aminotransferase) (Serum/Modified IFCC)	14.85	U/L	5 - 40
SGPT/ALT (Alanine Aminotransferase) (Serum/Modified IFCC)	17.54	U/L	5 - 41
GGT(Gamma Glutamyl Transpeptidase) (Serum/IFCC / Kinetic)	29.68	U/L	< 55
Alkaline Phosphatase (SAP) (Serum/Modified IFCC)	58.4	U/L	53 - 128
Total Protein (Serum/Biuret)	7.20	gm/dl	6.0 - 8.0
Albumin (Serum/Bromocresol green)	4.73	gm/dl	3.5 - 5.2
Globulin (Serum/Derived)	2.47	gm/dL	2.3 - 3.6
A : G RATIO (Serum/Derived)	1.91		1.1 - 2.2


Dr RAVIKUMAR R
MBBS, MD BIOCHEMISTRY
CONSULTANT BIOCHEMIST
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Lipid Profile

Cholesterol Total (Serum/CHOD-PAP with ATCS)	179.83	mg/dL	Optimal: < 200 Borderline: 200 - 239 High Risk: >= 240
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Triglycerides (Serum/GPO-PAP with ATCS)	84.91	mg/dL	Optimal: < 150 Borderline: 150 - 199 High: 200 - 499 Very High: >= 500
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INTERPRETATION: The reference ranges are based on fasting condition. Triglyceride levels change drastically in response to food, increasing as much as 5 to 10 times the fasting levels, just a few hours after eating. Fasting triglyceride levels show considerable diurnal variation too. There is evidence recommending triglycerides estimation in non-fasting condition for evaluating the risk of heart disease and screening for metabolic syndrome, as non-fasting sample is more representative of the 'usual' circulating level of triglycerides during most part of the day.

HDL Cholesterol (Serum/Immunoinhibition)	48.89	mg/dL	Optimal(Negative Risk Factor): >= 60 Borderline: 40 - 59 High Risk: < 40
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LDL Cholesterol (Serum/Calculated)	113.9	mg/dL	Optimal: < 100 Above Optimal: 100 - 129 Borderline: 130 - 159 High: 160 - 189 Very High: >= 190
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VLDL Cholesterol (Serum/Calculated)	17	mg/dL	< 30
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Non HDL Cholesterol (Serum/Calculated)	130.9	mg/dL	Optimal: < 130 Above Optimal: 130 - 159 Borderline High: 160 - 189 High: 190 - 219 Very High: >= 220
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INTERPRETATION: 1.Non-HDL Cholesterol is now proven to be a better cardiovascular risk marker than LDL Cholesterol.
2.It is the sum of all potentially atherogenic proteins including LDL, IDL, VLDL and chylomicrons and it is the "new bad cholesterol" and is a co-primary target for cholesterol lowering therapy.

Total Cholesterol/HDL Cholesterol Ratio (Serum/Calculated)	3.7		Optimal: < 3.3 Low Risk: 3.4 - 4.4 Average Risk: 4.5 - 7.1 Moderate Risk: 7.2 - 11.0 High Risk: > 11.0
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Triglyceride/HDL Cholesterol Ratio (TG/HDL) (Serum/Calculated)	1.7		Optimal: < 2.5 Mild to moderate risk: 2.5 - 5.0 High Risk: > 5.0
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LDL/HDL Cholesterol Ratio (Serum/Calculated)	2.3		Optimal: 0.5 - 3.0 Borderline: 3.1 - 6.0 High Risk: > 6.0
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<u>Glycosylated Haemoglobin (HbA1c)</u>			
HbA1C (Whole Blood/HPLC)	5.5	%	Normal: 4.5 - 5.6 Prediabetes: 5.7 - 6.4 Diabetic: >= 6.5

INTERPRETATION: If Diabetes - Good control : 6.1 - 7.0 % , Fair control : 7.1 - 8.0 % , Poor control >= 8.1 %

Estimated Average Glucose 111.15 mg/dL
(Whole Blood)

INTERPRETATION: Comments

HbA1c provides an index of Average Blood Glucose levels over the past 8 - 12 weeks and is a much better indicator of long term glycaemic control as compared to blood and urinary glucose determinations.

Conditions that prolong RBC life span like Iron deficiency anemia, Vitamin B12 & Folate deficiency, hypertriglyceridemia, hyperbilirubinemia, Drugs, Alcohol, Lead Poisoning, Asplenia can give falsely elevated HbA1C values.

Conditions that shorten RBC survival like acute or chronic blood loss, hemolytic anemia, Hemoglobinopathies, Splenomegaly, Vitamin E ingestion, Pregnancy, End stage Renal disease can cause falsely low HbA1c.


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IMMUNOASSAY

THYROID PROFILE / TFT

T3 (Triiodothyronine) - Total (Serum/ECLIA)	1.19	ng/ml	0.7 - 2.04
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INTERPRETATION:

Comment :

Total T3 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T3 is recommended as it is Metabolically active.

T4 (Tyroxine) - Total (Serum/ECLIA)	5.82	µg/dl	4.2 - 12.0
--	------	-------	------------

INTERPRETATION:

Comment :

Total T4 variation can be seen in other condition like pregnancy, drugs, nephrosis etc. In such cases, Free T4 is recommended as it is Metabolically active.

TSH (Thyroid Stimulating Hormone) (Serum/ECLIA)	2.40	µIU/mL	0.35 - 5.50
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INTERPRETATION:

Reference range for cord blood - upto 20

1 st trimester: 0.1-2.5

2 nd trimester 0.2-3.0

3 rd trimester : 0.3-3.0

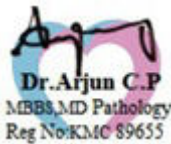
(Indian Thyroid Society Guidelines)

Comment :

1.TSH reference range during pregnancy depends on Iodine intake, TPO status, Serum HCG concentration, race, Ethnicity and BMI.

2.TSH Levels are subject to circadian variation, reaching peak levels between 2-4am and at a minimum between 6-10PM.The variation can be of the order of 50%,hence time of the day has influence on the measured serum TSH concentrations.

3.Values&lt;0.03 µIU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.



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CLINICAL PATHOLOGY

PHYSICAL EXAMINATION (URINE COMPLETE)

Colour (Urine)	Yellow		Yellow to Amber
Appearance (Urine)	Clear		Clear
Volume(CLU) (Urine)	25		

CHEMICAL EXAMINATION (URINE COMPLETE)

pH (Urine)	5.0		4.5 - 8.0
Specific Gravity (Urine)	1.018		1.002 - 1.035
Ketone (Urine)	Negative		Negative
Urobilinogen (Urine)	Normal		Normal
Blood (Urine)	Negative		Negative
Nitrite (Urine)	Negative		Negative
Bilirubin (Urine)	Negative		Negative
Protein (Urine)	Negative		Negative


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Glucose (Urine/GOD - POD)	Negative		Negative
Leukocytes(CP) (Urine)	Negative		Negative

MICROSCOPIC EXAMINATION
(URINE COMPLETE)

Pus Cells (Urine)	0-1	/hpf	NIL
Epithelial Cells (Urine)	0-1	/hpf	NIL
RBCs (Urine)	NIL	/hpf	NIL
Others (Urine)	NIL		

INTERPRETATION:Note: Done with Automated Urine Analyser & Automated urine sedimentation analyser. All abnormal reports are reviewed and confirmed microscopically.

Casts (Urine)	NIL	/hpf	NIL
Crystals (Urine)	NIL	/hpf	NIL


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Investigation

Observed
Value

Unit

Biological
Reference Interval

IMMUNOHAEMATOLOGY

BLOOD GROUPING AND Rh TYPING
(EDTA Blood/Agglutination)

'A' 'Positive'



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<u>BIOCHEMISTRY</u>			
BUN / Creatinine Ratio	8.8		6.0 - 22.0
Glucose Fasting (FBS) (Plasma - F/GOD-PAP)	78.42	mg/dL	Normal: < 100 Pre Diabetic: 100 - 125 Diabetic: >= 126

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level.

Glucose, Fasting (Urine) (Urine - F/GOD - POD)	Negative		Negative
Glucose Postprandial (PPBS) (Plasma - PP/GOD-PAP)	74.28	mg/dL	70 - 140

INTERPRETATION: Factors such as type, quantity and time of food intake, Physical activity, Psychological stress, and drugs can influence blood glucose level. Fasting blood glucose level may be higher than Postprandial glucose, because of physiological surge in Postprandial Insulin secretion, Insulin resistance, Exercise or Stress, Dawn Phenomenon, Somogyi Phenomenon, Anti-diabetic medication during treatment for Diabetes.

Blood Urea Nitrogen (BUN) (Serum/Urease UV / derived)	10.1	mg/dL	7.0 - 21
Creatinine (Serum/Modified Jaffe)	1.14	mg/dL	0.9 - 1.3

INTERPRETATION: Elevated Creatinine values are encountered in increased muscle mass, severe dehydration, Pre-eclampsia, increased ingestion of cooked meat, consuming Protein/ Creatine supplements, Diabetic Ketoacidosis, prolonged fasting, renal dysfunction and drugs such as cefoxitin ,cefazolin, ACE inhibitors ,angiotensin II receptor antagonists,N-acetylcyteine , chemotherapeutic agent such as flucytosine etc.

Uric Acid (Serum/Enzymatic)	4.31	mg/dL	3.5 - 7.2
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APPROVED BY

-- End of Report --

CLUMAX DIAGNOSTICS



--- A MEDALL COMPANY ---

CUSTOMER CHECKLIST

Date 25-Feb-2023 9:42 AM

Customer Name : **MR.SUNDARAM**

DOB : **01 Jun 1988**

Ref Dr Name : **MediWheel**

Age : **34Y/MALE**

Customer Id : **MED111518217**



Visit ID : 423010595

MED111518217

Email Id :

Phone : **9739188555**

Corp Name : **MediWheel**

Address :

M - 180
wt - 177
B.P - 155/98
Pul - 94

Package Name : **Mediwheel Full Body Health Checkup Male Below 40**

S.No	Modality	Study	Accession No	Time	Seq	Signature
1	LAB	BLOOD UREA NITROGEN (BUN)				
2	LAB	CREATININE				
3	LAB	GLUCOSE - FASTING				
4	LAB	GLUCOSE - POSTPRANDIAL (2 HRS)				
5	LAB	GLYCOSYLATED HAEMOGLOBIN (HbA1c)				
6	LAB	URIC ACID				
7	LAB	LIPID PROFILE				
8	LAB	LIVER FUNCTION TEST (LFT)				
9	LAB	THYROID PROFILE/ TFT(T3, T4, TSH)				
10	LAB	URINE GLUCOSE - FASTING				
11	LAB	URINE GLUCOSE - POSTPRANDIAL (2 Hrs)				
12	LAB	COMPLETE BLOOD COUNT WITH ESR				
13	LAB	STOOL ANALYSIS - ROUTINE				
14	LAB	URINE ROUTINE				

15	LAB	BUN/CREATININE RATIO			
16	LAB	BLOOD GROUP & RH TYPE (Forward Reverse)			
17	ECG	ECG	IND13713241138	<i>[Handwritten mark]</i>	
18	OTHERS	Treadmill / 2D Echo	IND137132414690	<i>[Handwritten line]</i>	
19	OTHERS	physical examination	IND137132415279		
20	US	ULTRASOUND ABDOMEN	IND137132415292		
21	OTHERS	EYE CHECKUP	IND137132417756	<i>not required</i>	
22	X-RAY	X RAY CHEST	IND137132418659	<i>[Handwritten line]</i>	
23	OTHERS	Consultation Physician	IND137132418736		

Registered By

(HARI.O)

25.02.2023 12:58:37
CLUMAX DIAGNOSTICS
THIPPASANDRA
BANGALORE

83 bpm
-- / -- mmHg

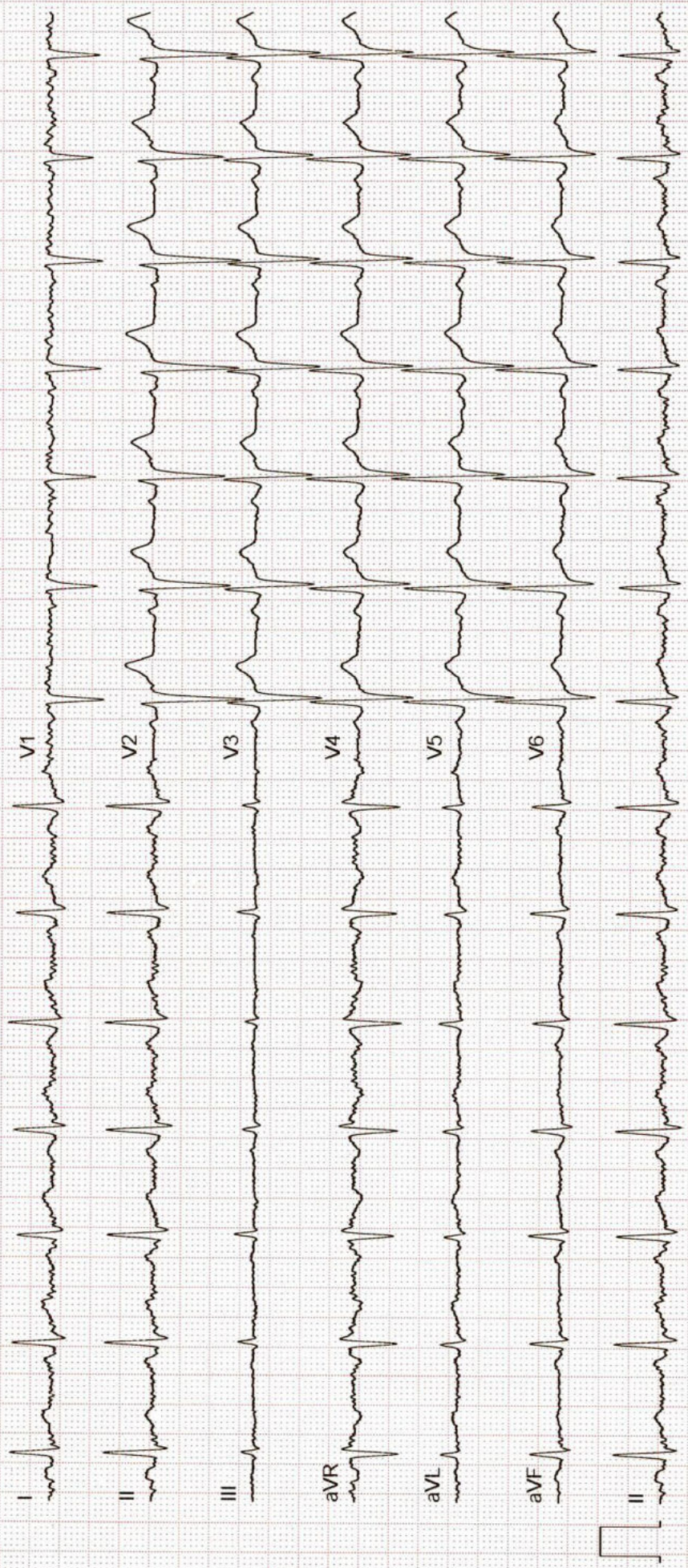
MED115182 [7.0.2] 25-02-23 09.42



423010595
MR SUNDARAM(34Y/M)

QT / QTcBaz : 384 / 451 ms
PR : 148 ms
P : 92 ms
RR / PP : 720 / 722 ms
P / QRS / T : 43 / 41 / 17 degrees

Dr. SUBRAMANI. K.S
MD, DM (Cardiology)
Consultant Cardiologist
KMC Reg. No. : 46604
MEDALL DIAGNOSTICS



Name	MR.SUNDARAM	ID	MED111518217
Age & Gender	34Y/MALE	Visit Date	25 Feb 2023
Ref Doctor Name	MediWheel		

2 D ECHOCARDIOGRAPHIC STUDY

M mode measurement:

AORTA	:	3.5cms
LEFT ATRIUM	:	3.8cms
AVS	:	----
LEFT VENTRICLE (DIASTOLE)	:	5.1cms
(SYSTOLE)	:	3.5cms
VENTRICULAR SEPTUM (DIASTOLE)	:	0.8cms
(SYSTOLE)	:	1.5cms
POSTERIOR WALL (DIASTOLE)	:	0.9cms
(SYSTOLE)	:	1.8cms
EDV	:	126ml
ESV	:	50ml
FRACTIONAL SHORTENING	:	32%
EJECTION FRACTION	:	60%
EPSS	:	---
RVID	:	1.9cms

DOPPLER MEASUREMENTS:

MITRAL VALVE	:	E' 0.71 m/s	A' 0.59 m/s	NO MR
AORTIC VALVE	:	1.10 m/s		NO AR
TRICUSPID VALVE	:	E' - m/s	A' - m/s	NO TR
PULMONARY VALVE	:	0.84 m/s		NO PR

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2D ECHOCARDIOGRAPHY FINDINGS:

Left ventricle : Normal size, Normal systolic function.
No regional wall motion abnormalities.

Left Atrium : Normal.

Right Ventricle : Normal.

Right Atrium : Normal.

Mitral valve : Normal, No mitral valve prolapsed.

Aortic valve : Normal, Trileaflet.

Tricuspid valve : Normal.

Pulmonary valve : Normal.

IAS : Intact.

IVS : Intact.

Pericardium : No pericardial effusion.

IMPRESSION:

- **NORMAL SIZED CARDIAC CHAMBERS.**
- **NORMAL LV SYSTOLIC FUNCTION. EF: 60%.**
- **NO REGIONAL WALL MOTION ABNORMALITIES.**
- **NORMAL VALVES.**
- **NO CLOTS / PERICARDIAL EFFUSION / VEGETATION.**

DR. K.S. SUBRAMANI. MBBS, MD, DM (CARDIOLOGY) FESC
SENIOR CONSULTANT INTERVENTIONAL CARDIOLOGIST
Kss/vp

Note:

*** Report to be interpreted by qualified medical professional.**

Name	MR.SUNDARAM	ID	MED111518217
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*** To be correlated with other clinical findings.**

*** Parameters may be subjected to inter and intra observer variations.**

*** Any discrepancy in reports due to typing errors should be corrected as soon as possible.**

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ABDOMINO-PELVIC ULTRASONOGRAPHY

LIVER is normal in size and shows diffuse fatty changes. No evidence of focal lesion or intrahepatic biliary ductal dilatation. Hepatic and portal vein radicals are normal.

GALL BLADDER shows normal shape and has clear contents. Gall bladder wall is of normal thickness. CBD is of normal calibre.

PANCREAS has normal shape, size and uniform echopattern. No evidence of ductal dilatation or calcification.

SPLEEN shows normal shape, size and echopattern. No demonstrable Para -aortic lymphadenopathy.

KIDNEYS move well with respiration and have normal shape, size and echopattern. Cortico- medullary differentiations are well made out. No evidence of calculus or hydronephrosis.

The kidney measures as follows:

	Bipolar length (cms)	Parenchymal thickness (cms)
Right Kidney	10.2	1.5
Left Kidney	10.8	1.6

URINARY BLADDER shows normal shape and wall thickness. It has clear contents. No evidence of diverticula.

PROSTATE shows normal shape, size and echopattern. It measures 2.5 x 3.0 x 3.0cms (Vol:12cc).

No evidence of ascites / pleural effusion.

IMPRESSION:

- **FATTY LIVER.**
- **NO OTHER SIGNIFICANT ABNORMALITY DETECTED.**

DR. APARNA
CONSULTANT RADIOLOGIST
A/VP

Name	Sundaram	Customer ID	MED111518217
Age & Gender	34Y/M	Visit Date	Feb 25 2023 9:42AM
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X - RAY CHEST PA VIEW

Bilateral lung fields appear normal.

Cardiac size is within normal limits.

Bilateral hilar regions appear normal.

Bilateral domes of diaphragm and costophrenic angles are normal.

Visualised bones and soft tissues appear normal.

IMPRESSION:

- **No significant abnormality detected.**



DR. APARNA

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