

# SUBURBAN DIAGNOSTIC CENTRE

Name : Mr Shubham Gupta 029Y / M

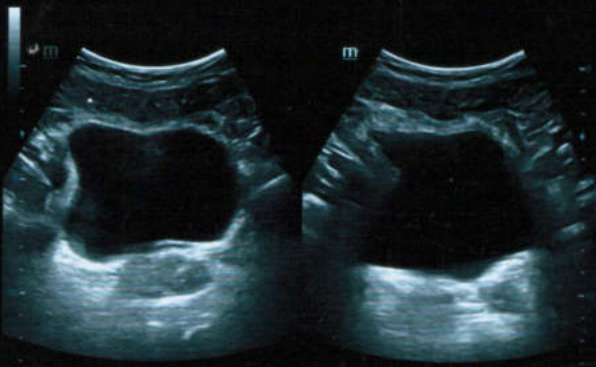
12 Dec 2023 Study : ABD

SUBURBAN DIAGNOSTIC  
12-12-2023 10:04:45 AM

Mr Shubham Gupta  
2334604589

Adult ABD C5-1

AP 90.8% M 1.2 T08.0.4



**mindray**  
DC-60 Exp  
B  
F HS.0  
D 13.0  
G 71  
FR 21  
DR 110  
iClear 5  
iBeam 1

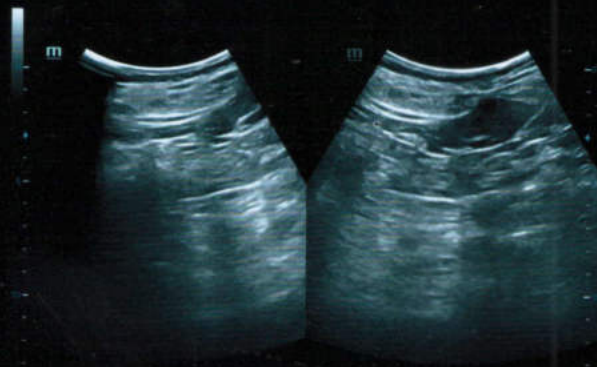
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12-12-2023 10:04:53 AM

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DC-60 Exp  
B  
F HS.0  
D 13.0  
G 100  
FR 21  
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iClear 5  
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10000

SUBURBAN DIAGNOSTIC  
12-12-2023 10:05:04 AM

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**mindray**  
DC-60 Exp  
B  
F HS.0  
D 14.0  
G 100  
FR 19  
DR 110  
iClear 5  
iBeam 1

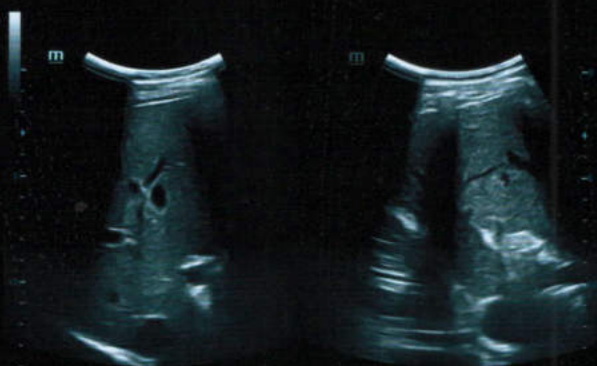
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SUBURBAN DIAGNOSTIC  
12-12-2023 10:05:17 AM

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**mindray**  
DC-60 Exp  
B  
F HS.0  
D 14.0  
G 100  
FR 19  
DR 110  
iClear 5  
iBeam 1

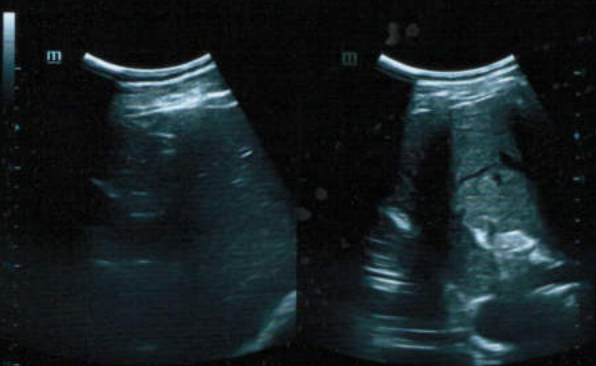
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SUBURBAN DIAGNOSTIC  
12-12-2023 10:05:24 AM

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**mindray**  
DC-60 Exp  
B  
F HS.0  
D 15.0  
G 100  
FR 19  
DR 110  
iClear 5  
iBeam 1

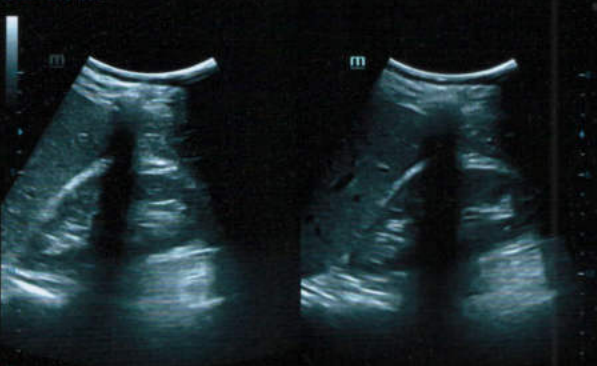
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SUBURBAN DIAGNOSTIC  
12-12-2023 10:05:34 AM

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AP 90.8% M 1.2 T08.0.4



**mindray**  
DC-60 Exp  
B  
F HS.0  
D 15.0  
G 87  
FR 19  
DR 110  
iClear 5  
iBeam 1

10000

SUBURBAN DIAGNOSTIC  
12-12-2023 10:06:02 AM

Mr Shubham Gupta  
2334604589

Adult ABD C5-1

AP 90.8% M 1.2 T08.0.4



**mindray**  
DC-60 Exp  
B  
F HS.0  
D 15.0  
G 89  
FR 19  
DR 110  
iClear 5  
iBeam 1

10000

SUBURBAN DIAGNOSTIC  
12-12-2023 10:06:25 AM

Mr Shubham Gupta  
2334604589

Adult ABD C5-1

AP 90.8% M 1.2 T08.0.4



**mindray**  
DC-60 Exp  
B  
F HS.0  
D 15.0  
G 89  
FR 19  
DR 110  
iClear 5  
iBeam 1

10000



Shubham Gupta  
29/M

12/12/23

PHY2.

History and Complaints:

NA

EXAMINATION FINDINGS:

Height (cms):	178	Weight (kg):	69	BMI
Temp (0c):	Afebrile	~	Skin: Normal	}
Blood Pressure (mm/hg):	120/80	Nails: Healthy		
Pulse:	78	Lymph Node: Not Palpable		

Systems

Cardiovascular: S1,S2 Normal No Murmurs

Respiratory: Air Entry Bilaterally Equal

Genitourinary: Normal

GI System: Soft non tender No Organomegaly

CNS: Normal

NA

IMPRESSION:

fit

ISH ↑ other @  
4.78

ADVICE:

—

CHIEF COMPLAINTS:

1) Hypertension:

2) IHD:

3) Arrhythmia:

4) Diabetes Mellitus :

5) Tuberculosis :

6) Asthama:

NA

9)	Nervous disorders :	}        NA
10)	GI system :	
11)	Genital urinary disorder :	
12)	Rheumatic joint diseases or symptoms :	
13)	Blood disease or disorder :	
14)	Cancer/lump growth/cyst :	
15)	Congenital disease :	
16)	Surgeries :	

**PERSONAL HISTORY:**

1)	Alcohol	occasional	✓
2)	Smoking		Nil
3)	Diet		Mix
4)	Medication		Nil

  
**Dr. H.P. Dixit**  
 M.B.B.S., M.D.(Medicine)  
 Reg No: 44768



Preventive Health Check-up | Pathology | Digital X-Ray | Sonography | Colour Doppler | Mammography | BMD (DXA Scan) | OPG | ECG  
Stress Test/TMT | 2D Echo | Spirometry | Eye Examination | Dental Examination | Diet Consultation | Audiometry | OT Sterility | Water Sterility | Clinical Research

Date:- 12/12/23  
Name:- Shubham Gupta

CID:  
Sex / Age: 29 / M

**EYE CHECK UP**

Chief complaints:

Systemic Diseases:

Past history:

Unaided Vision:

Aided Vision:

Refraction:

} n/a

N6 6/6  
N6 6/6

(Right Eye)

(Left Eye)

	Sph	Cyl	Axis	Vn	Sph	Cyl	Axis	Vn
Distance	—	—	—	—	—	—	—	—
Near	—	—	—	—	—	—	—	—

Colour Vision: Normal / Abnormal

Remark:

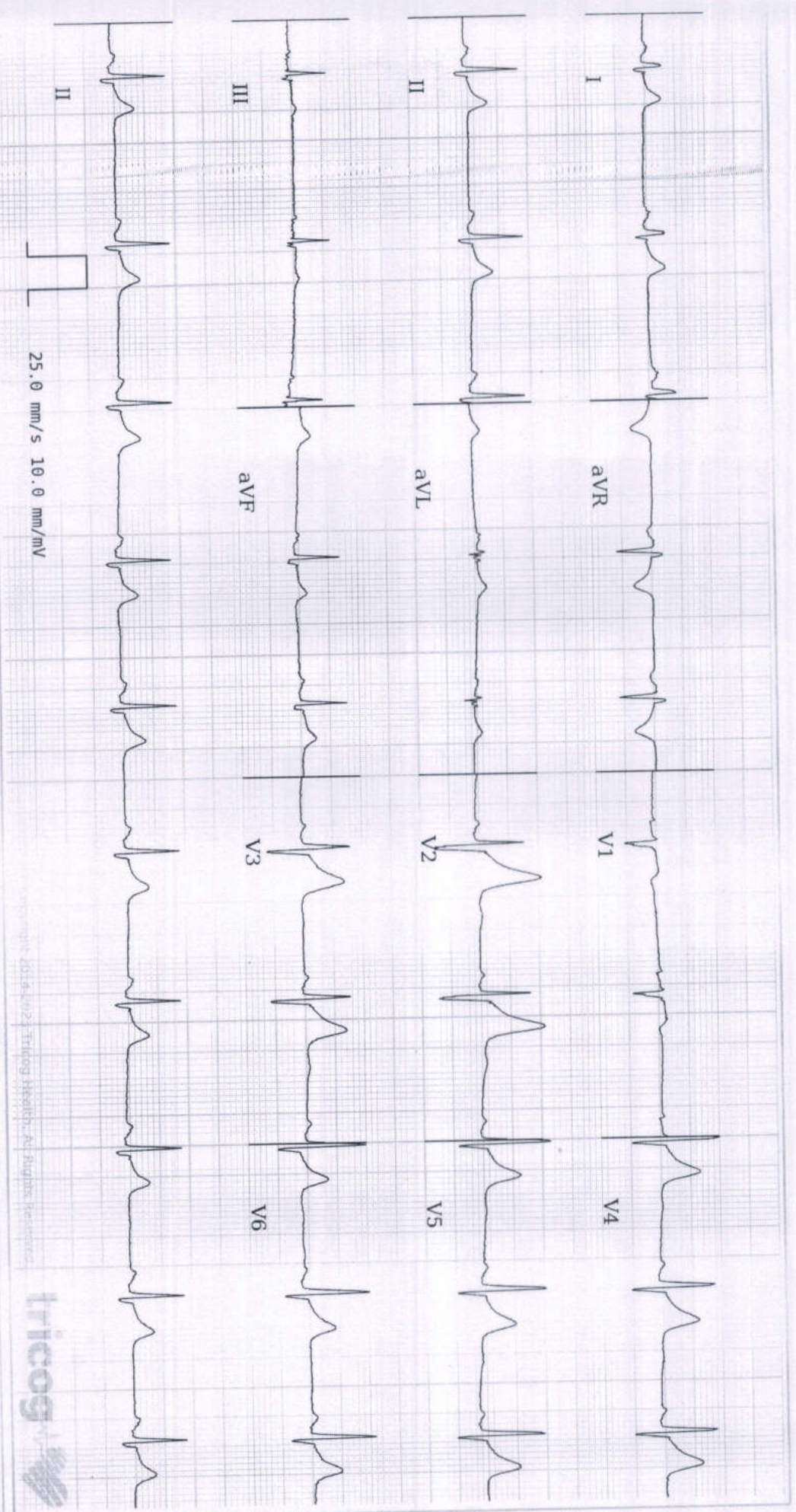
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Dr. H.P. Dixit  
M.B.B.S., M.D.(Medicine)  
Reg No: 44768



Patient Name: SHUBHAM GUPTA  
Patient ID: 2334604589

**SUBURBAN DIAGNOSTICS - TIMBLE SAUDAGAR, PUNE**  
Date and Time: 12th Dec 23 9:01 AM



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

Disclaimer: This report is based on ECG alone and should be used as an adjunct to clinical history, symptoms, and results of other diagnostic and non-invasive tests and must be interpreted by a qualified physician. Patient ID: 2334604589

Age: 2  
ye

Gender:

Heart Rate:

Patient:

BP:

Weight:

Height:

Pulse:

Spo2:

Resp:

Others:

Measurements:  
QRSD:  
QT:  
QTcB:  
PR:  
P-R-T:

REPORTED BY

*me*

Dr. H. P. DIXIT  
M.B.B.S MD(MEDICINE)  
44768





**CID** : 2334604589  
**Name** : Mr Shubham Gupta  
**Age / Sex** : 29 Years/Male

**Ref. Dr** :  
**Reg. Location** : Pimple Saudagar, Pune Main Centre  
**Reg. Date** : 12-Dec-2023  
**Reported** : 12-Dec-2023 / 10:01

**USG WHOLE ABDOMEN**

**LIVER:**

The liver is normal in size ( 13.2 cm), shape and smooth margins. It shows normal parenchymal echo pattern. The intra hepatic biliary and portal radical appear normal. No evidence of any intra hepatic cystic or solid lesion seen. The main portal vein and CBD appears normal.

**GALL BLADDER:**

The gall bladder is physiologically distended and appears normal. No evidence of gall stones or mass lesions seen

**PANCREAS:**

The pancreas is obscured by overlying bowel gas.

**KIDNEYS:**

Both the kidneys are normal in size shape and echotexture.  
No evidence of any calculus, hydronephrosis or mass lesion seen.  
Right kidney measures 11.0 x 4.7 cm. Left kidney measures 10.5 x 5.8 cm.

**SPLEEN:**

The spleen is normal in size ( 10.2 cm) and echotexture. No evidence of focal lesion is noted. There is no evidence of any lymphadenopathy or ascites.

**URINARY BLADDER:**

The urinary bladder is well distended and reveal no intraluminal abnormality.

**PROSTATE:**

The prostate is normal in size .

**IMPRESSION:**

- No significant abnormality is seen.

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





Authenticity Check



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Application To Scan the Code

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**Ref. Dr** :

**Reg. Location** : Pimple Saudagar, Pune Main Centre

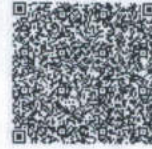
**Reg. Date** : 12-Dec-2023

**Reported** : 12-Dec-2023 / 10:01

*Padamwar*

Dr. Trupti Padamwar,  
MBBS, DMRE,  
Consultant Radiologist  
Reg.No.2006/03/1428

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Name : Mr Shubham Gupta  
Age / Sex : 29 Years/Male  
Ref. Dr :  
Reg. Date : 12-Dec-2023  
Reg. Location : Pimple Saudagar, Pune Main Centre  
Reported : 12-Dec-2023 / 10:03

**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:**

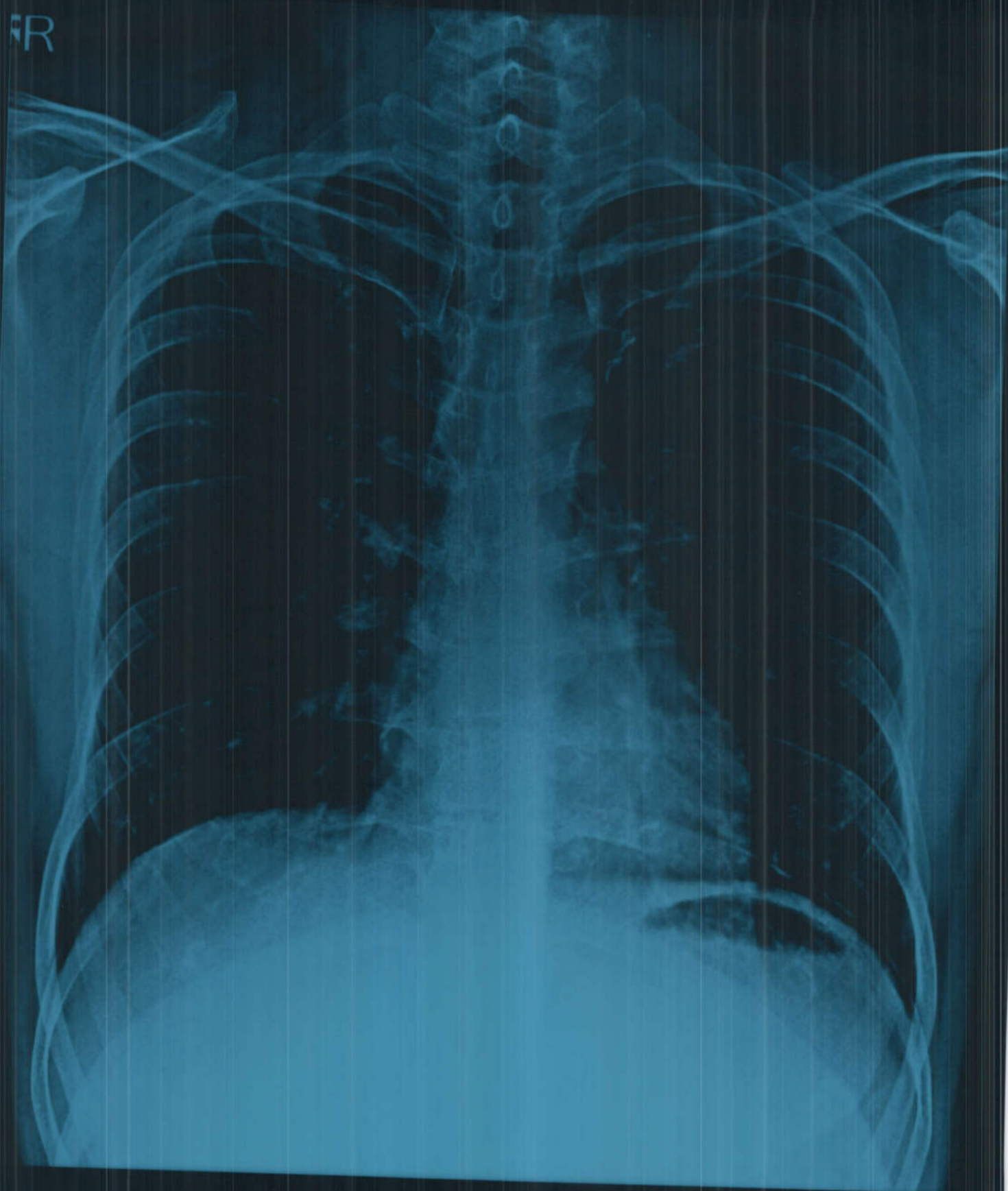
**NO SIGNIFICANT ABNORMALITY IS DETECTED.**

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

Dr. Trupti Padamwar,  
MBBS, DMRE,  
Consultant Radiologist  
Reg. No. 2006/03/1428



R



Mr Shubham Gupta M 029Y 2334604589 CHEST PA 12/12/2023  
SUBURBAN DIAGNOSTICS PIMPLE SAUDAGAR



CID : 2334604589  
Name : MR.SHUBHAM GUPTA  
Age / Gender : 29 Years / Male  
Consulting Dr. : -  
Reg. Location : Pimple Saudagar, Pune (Main Centre)

Collected : 12-Dec-2023 / 08:54  
Reported : 12-Dec-2023 / 14:46

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**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**

**CBC (Complete Blood Count), Blood**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
<b><u>RBC PARAMETERS</u></b>			
Haemoglobin	16.0	13.0-17.0 g/dL	Spectrophotometric
RBC	<b>5.68</b>	4.5-5.5 mil/cmm	Elect. Impedance
PCV	47.6	40-50 %	Calculated
MCV	84	80-100 fl	Calculated
MCH	28.1	27-32 pg	Calculated
MCHC	33.5	31.5-34.5 g/dL	Calculated
RDW	<b>15.2</b>	11.6-14.0 %	Calculated
<b><u>WBC PARAMETERS</u></b>			
WBC Total Count	6400	4000-10000 /cmm	Elect. Impedance
<b><u>WBC DIFFERENTIAL AND ABSOLUTE COUNTS</u></b>			
Lymphocytes	33.6	20-40 %	
Absolute Lymphocytes	2150.4	1000-3000 /cmm	Calculated
Monocytes	5.9	2-10 %	
Absolute Monocytes	377.6	200-1000 /cmm	Calculated
Neutrophils	57.4	40-80 %	
Absolute Neutrophils	3673.6	2000-7000 /cmm	Calculated
Eosinophils	2.7	1-6 %	
Absolute Eosinophils	172.8	20-500 /cmm	Calculated
Basophils	0.4	0.1-2 %	
Absolute Basophils	25.6	20-100 /cmm	Calculated
Immature Leukocytes	-		
WBC Differential Count by Absorbance & Impedance method/Microscopy.			
<b><u>PLATELET PARAMETERS</u></b>			
Platelet Count	230000	150000-400000 /cmm	Elect. Impedance
MPV	8.7	6-11 fl	Calculated
PDW	14.3	11-18 %	Calculated
<b><u>RBC MORPHOLOGY</u></b>			
Hypochromia	-		
Microcytosis	-		





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**Collected** : 12-Dec-2023 / 08:54  
**Reported** : 12-Dec-2023 / 13:31

Use a QR Code Scanner  
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Macrocytosis	-
Anisocytosis	Mild
Poikilocytosis	-
Polychromasia	-
Target Cells	-
Basophilic Stippling	-
Normoblasts	-
Others	-
WBC MORPHOLOGY	-
PLATELET MORPHOLOGY	-
COMMENT	-

Specimen: EDTA Whole Blood

ESR, EDTA WB-ESR                      13                                      2-15 mm at 1 hr.                                      Sedimentation

**Clinical Significance:** The erythrocyte sedimentation rate (ESR), also called a sedimentation rate is the rate red blood cells sediment in a period of time.

**Interpretation:**

Factors that increase ESR: Old age, Pregnancy, Anemia

Factors that decrease ESR: Extreme leukocytosis, Polycythemia, Red cell abnormalities- Sickle cell disease

**Limitations:**

- It is a non-specific measure of inflammation.
- The use of the ESR as a screening test in asymptomatic persons is limited by its low sensitivity and specificity.

**Reflex Test:** C-Reactive Protein (CRP) is the recommended test in acute inflammatory conditions.

**Reference:**

- Pack Insert
- Brigden ML. Clinical utility of the erythrocyte sedimentation rate. American family physician. 1999 Oct 1;60(5):1443-50.

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

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



**Dr.CHANDRAKANT PAWAR**  
**M.D.(PATH)**  
**Pathologist**



CID : 2334604589  
Name : MR.SHUBHAM GUPTA  
Age / Gender : 29 Years / Male  
Consulting Dr. : -  
Reg. Location : Pimple Saudagar, Pune (Main Centre)

Collected : 12-Dec-2023 / 08:54  
Reported : 12-Dec-2023 / 16:24

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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	99.0	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	68.8	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >= 200 mg/dl	Hexokinase
BILIRUBIN (TOTAL), Serum	0.51	0.1-1.2 mg/dl	Colorimetric
BILIRUBIN (DIRECT), Serum	0.16	0-0.3 mg/dl	Diazo
BILIRUBIN (INDIRECT), Serum	0.35	0.1-1.0 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.7	6.4-8.3 g/dL	Biuret
ALBUMIN, Serum	4.5	3.5-5.2 g/dL	BCG
GLOBULIN, Serum	3.2	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.4	1 - 2	Calculated
SGOT (AST), Serum	18.9	5-40 U/L	NADH (w/o P-5-P)
SGPT (ALT), Serum	20.9	5-45 U/L	NADH (w/o P-5-P)
GAMMA GT, Serum	21.9	3-60 U/L	Enzymatic
ALKALINE PHOSPHATASE, Serum	55.7	40-130 U/L	Colorimetric
BLOOD UREA, Serum	16.8	12.8-42.8 mg/dl	Kinetic
BUN, Serum	7.8	6-20 mg/dl	Calculated
CREATININE, Serum	0.85	0.67-1.17 mg/dl	Enzymatic





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Collected : 12-Dec-2023 / 12:59  
Reported : 12-Dec-2023 / 18:05

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eGFR, Serum	121	(ml/min/1.73sqm)	Calculated
		Normal or High: Above 90	
		Mild decrease: 60-89	
		Mild to moderate decrease: 45-59	
		Moderate to severe decrease: 30-44	
		Severe decrease: 15-29	
		Kidney failure: <15	

Note: eGFR estimation is calculated using 2021 CKD-EPI GFR equation w.e.f 16-08-2023

URIC ACID, Serum	5.2	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 Baner Balewadi Lab  
\*\*\* End Of Report \*\*\*

**Dr.CHANDRAKANT PAWAR**  
M.D.(PATH)  
Pathologist



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Age / Gender : 29 Years / Male  
Consulting Dr. : -  
Reg. Location : Pimple Saudagar, Pune (Main Centre)

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**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**  
**GLYCOSYLATED HEMOGLOBIN (HbA1c)**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
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.

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

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



*Signature*

**Dr.CHANDRAKANT PAWAR**  
**M.D.(PATH)**  
**Pathologist**





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**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**  
**URINE EXAMINATION REPORT**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
<b>PHYSICAL EXAMINATION</b>			
Color	Yellow	Pale Yellow	-
Reaction (pH)	Neutral (7.0)	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.005	1.001-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	30	-	-
<b>CHEMICAL EXAMINATION</b>			
Proteins	Absent	Absent	pH Indicator
Glucose	Absent	Absent	GOD-POD
Ketones	Absent	Absent	Legals Test
Blood	Absent	Absent	Peroxidase
Bilirubin	Absent	Absent	Diazonium Salt
Urobilinogen	Normal	Normal	Diazonium Salt
Nitrite	Absent	Absent	Griess Test
<b>MICROSCOPIC EXAMINATION</b>			
Leukocytes(Pus cells)/hpf	0-1	0-5/hpf	
Red Blood Cells / hpf	Absent	0-2/hpf	
Epithelial Cells / hpf	0-1		
Casts	Absent	Absent	
Crystals	Absent	Absent	
Amorphous debris	Absent	Absent	
Bacteria / hpf	2-3	Less than 20/hpf	

**Interpretation:** The concentration values of Chemical analytes corresponding to the grading given in the report are as follows:

- Protein ( 1+ = 25 mg/dl , 2+ =75 mg/dl , 3+ = 150 mg/dl , 4+ = 500 mg/dl )
- Glucose(1+ = 50 mg/dl , 2+ =100 mg/dl , 3+ =300 mg/dl ,4+ =1000 mg/dl )
- Ketone (1+ =5 mg/dl , 2+ = 15 mg/dl , 3+= 50 mg/dl , 4+ = 150 mg/dl )

Reference: Pack inert

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

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

<b><u>PARAMETER</u></b>	<b><u>RESULTS</u></b>
ABO GROUP	A
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.

**Refernces:**

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



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**AERFOCAMI HEALTHCARE BELOW 40 MALE/FEMALE**  
**LIPID PROFILE**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	197.9	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >/=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	146.3	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	40.2	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Homogeneous enzymatic colorimetric assay
NON HDL CHOLESTEROL, Serum	157.7	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >/=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	129.0	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	28.7	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.9	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	3.2	0-3.5 Ratio	Calculated

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Pune Baner Balewadi Lab  
\*\*\* End Of Report \*\*\*

**Dr.CHANDRAKANT PAWAR**  
M.D.(PATH)  
Pathologist



CID : 2334604589  
Name : MR.SHUBHAM GUPTA  
Age / Gender : 29 Years / Male  
Consulting Dr. : -  
Reg. Location : Pimple Saudagar, Pune (Main Centre)

Collected : 12-Dec-2023 / 08:54  
Reported : 12-Dec-2023 / 16:03

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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	5.9	3.10-6.80 pmol/L	ECLIA
Note: Kindly note change in reference range and method w.e.f 12-07-2023			
Free T4, Serum	18.2	12-22 pmol/L	ECLIA
Note: Kindly note change in reference range and method w.e.f 12-07-2023			
sensitiveTSH, Serum	4.78	0.270-4.20 mIU/ml	ECLIA

Note: Kindly note change in reference range and method w.e.f 12-07-2023 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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**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 becuaese 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)

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

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



*Dr. Chandrakant Pawar*

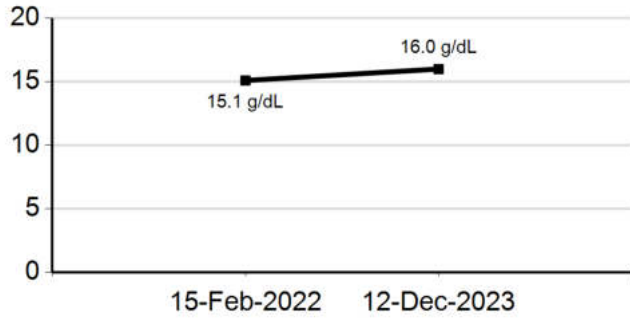
**Dr.CHANDRAKANT PAWAR**  
M.D.(PATH)  
Pathologist



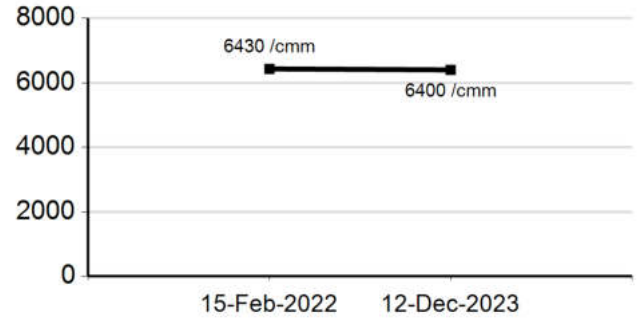
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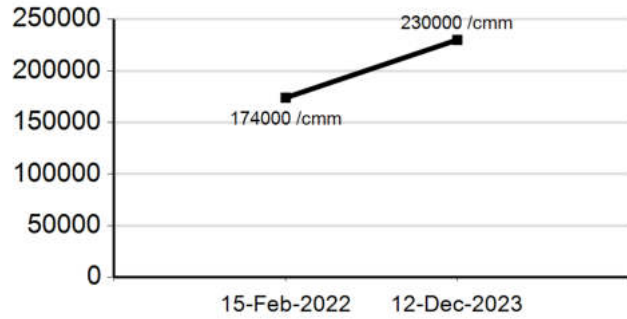
**Haemoglobin**



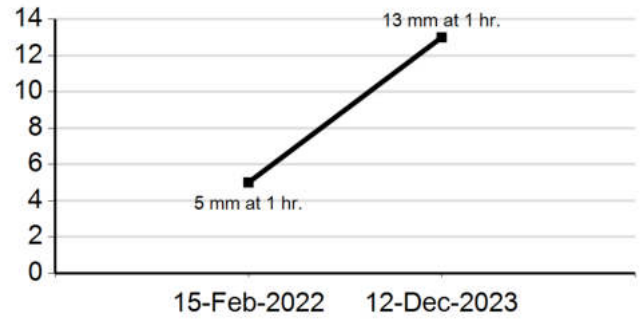
**WBC Total Count**



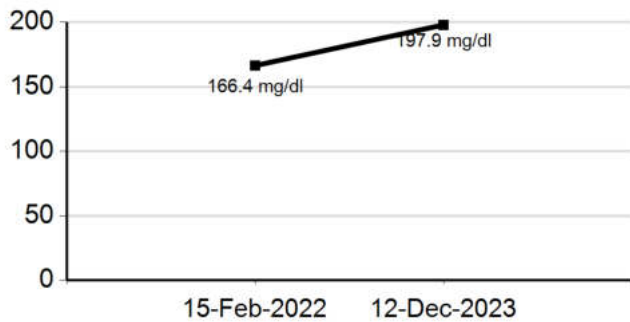
**Platelet Count**



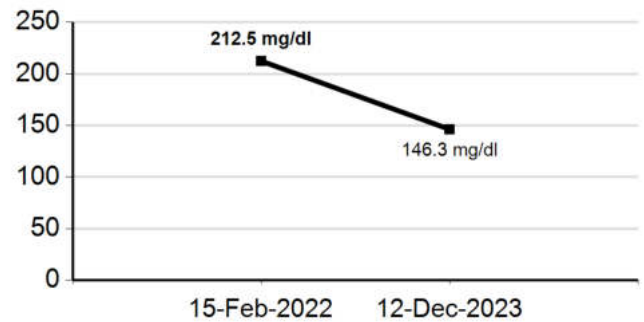
**ESR**



**CHOLESTEROL**



**TRIGLYCERIDES**



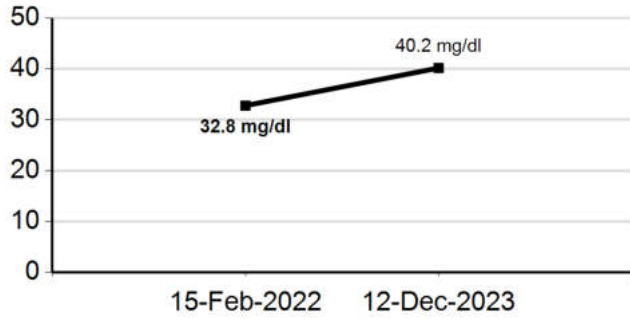




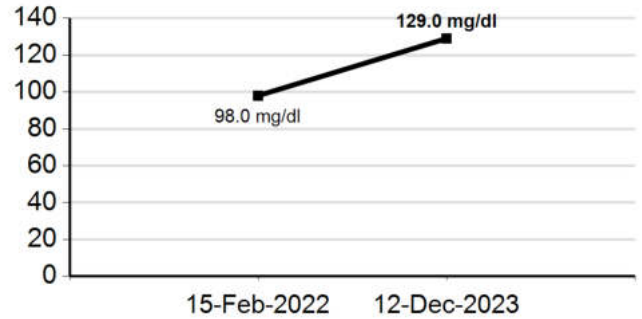
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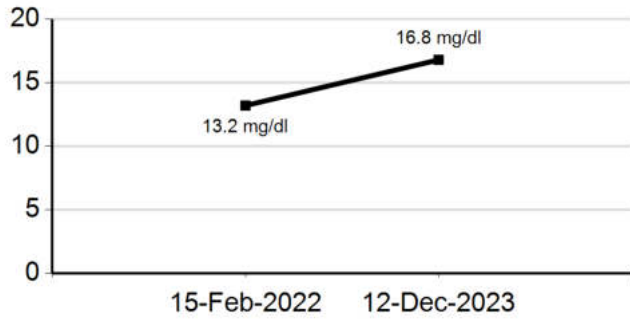
**HDL CHOLESTEROL**



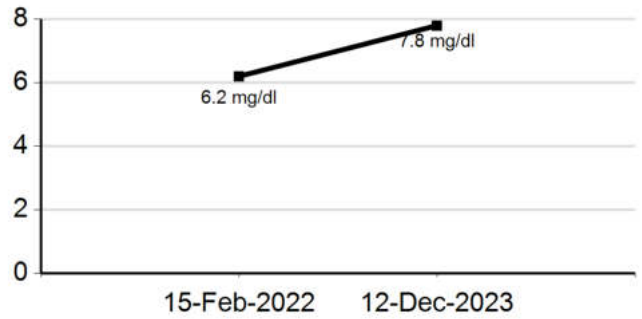
**LDL CHOLESTEROL**



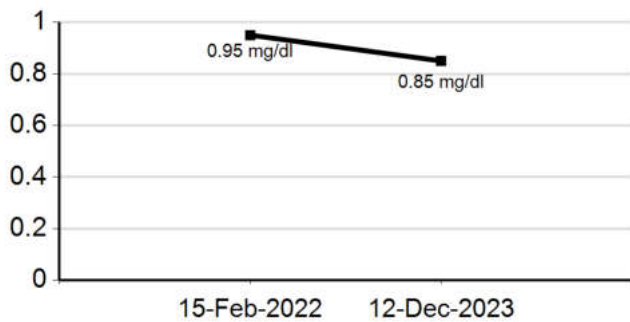
**BLOOD UREA**



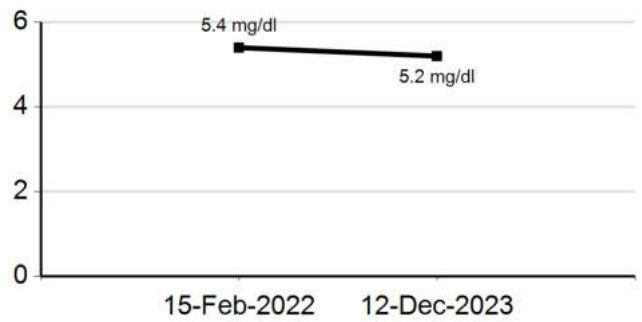
**BUN**



**CREATININE**



**URIC ACID**

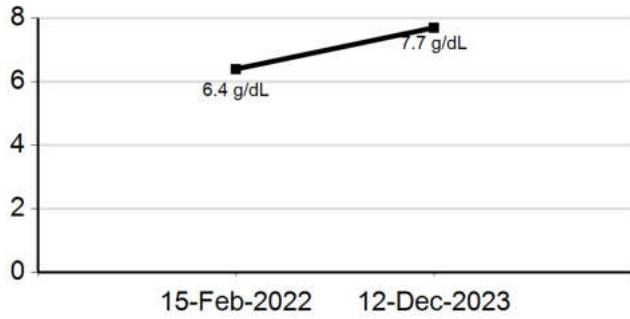




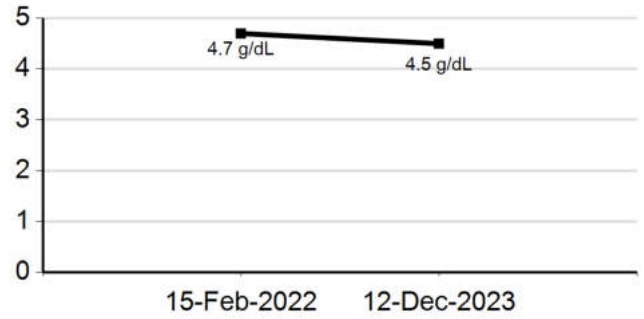
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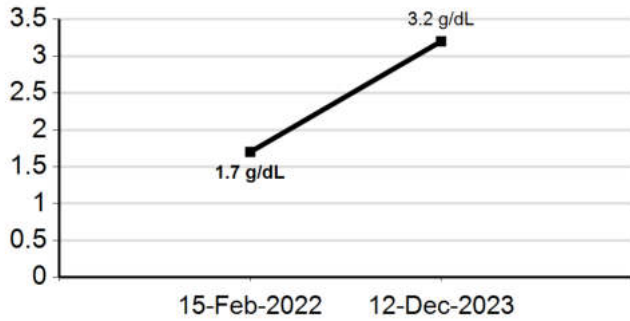
**TOTAL PROTEINS**



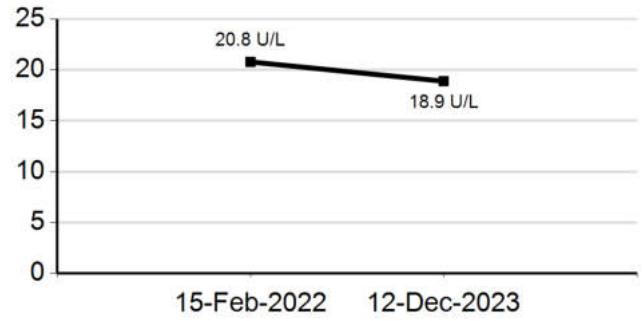
**ALBUMIN**



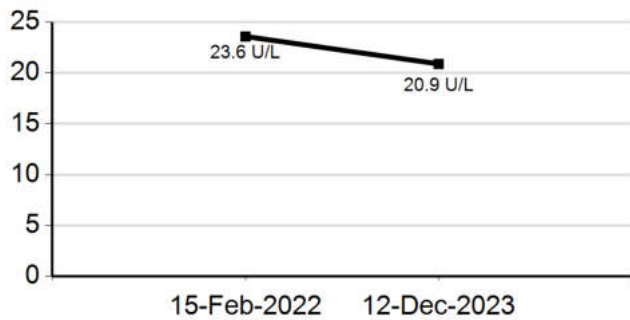
**GLOBULIN**



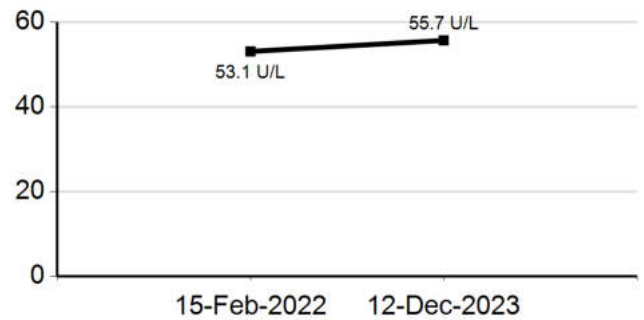
**SGOT (AST)**



**SGPT (ALT)**



**ALKALINE PHOSPHATASE**

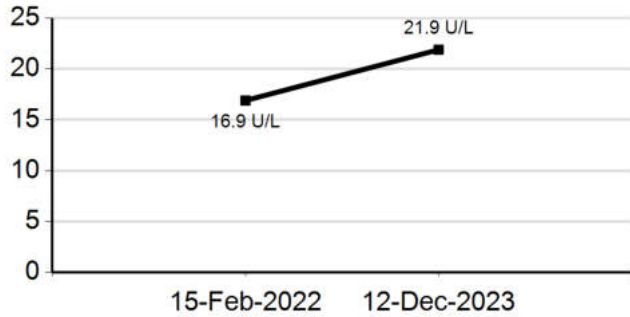




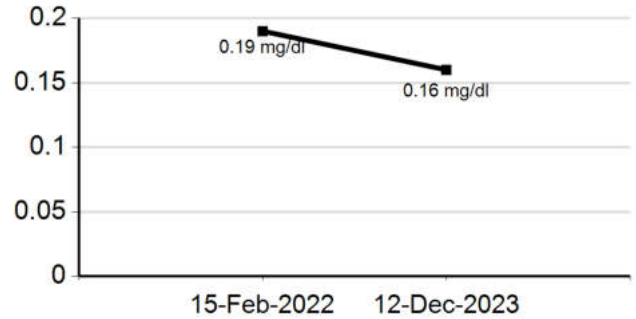
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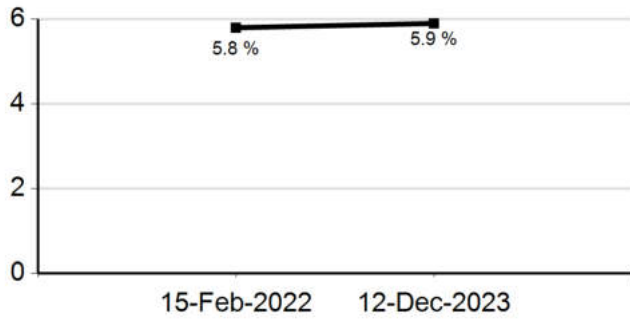
**GAMMA GT**



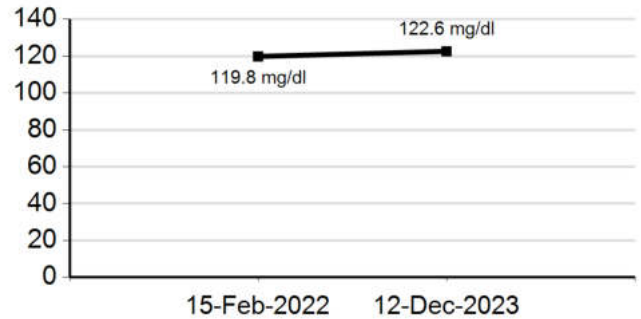
**BILIRUBIN (DIRECT)**



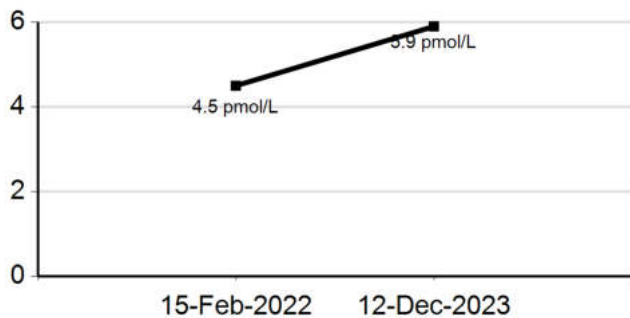
**Glycosylated Hemoglobin (HbA1c)**



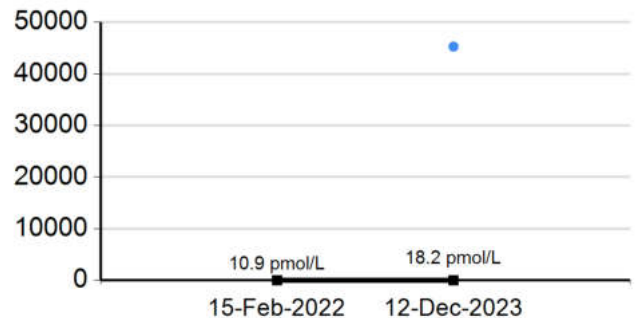
**Estimated Average Glucose (eAG)**



**Free T3**



**Free T4**







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