

# SUBURBAN DIAGNOSTICS - BORIVALI WEST

Patient Name: DILIP PIMPALE

Date and Time: 8th Apr 23 9:35 AM

Patient ID: 2309821437

Age **60** **5** **12**  
years months days

Gender **Male**

Heart Rate **56bpm**

### Patient Vitals

BP: 120/80 mmHg

Weight: 54 kg

Height: 180 cm

Pulse: 90 bpm

Spo2: NA

Resp: NA

Others: \_\_\_\_\_

### Measurements

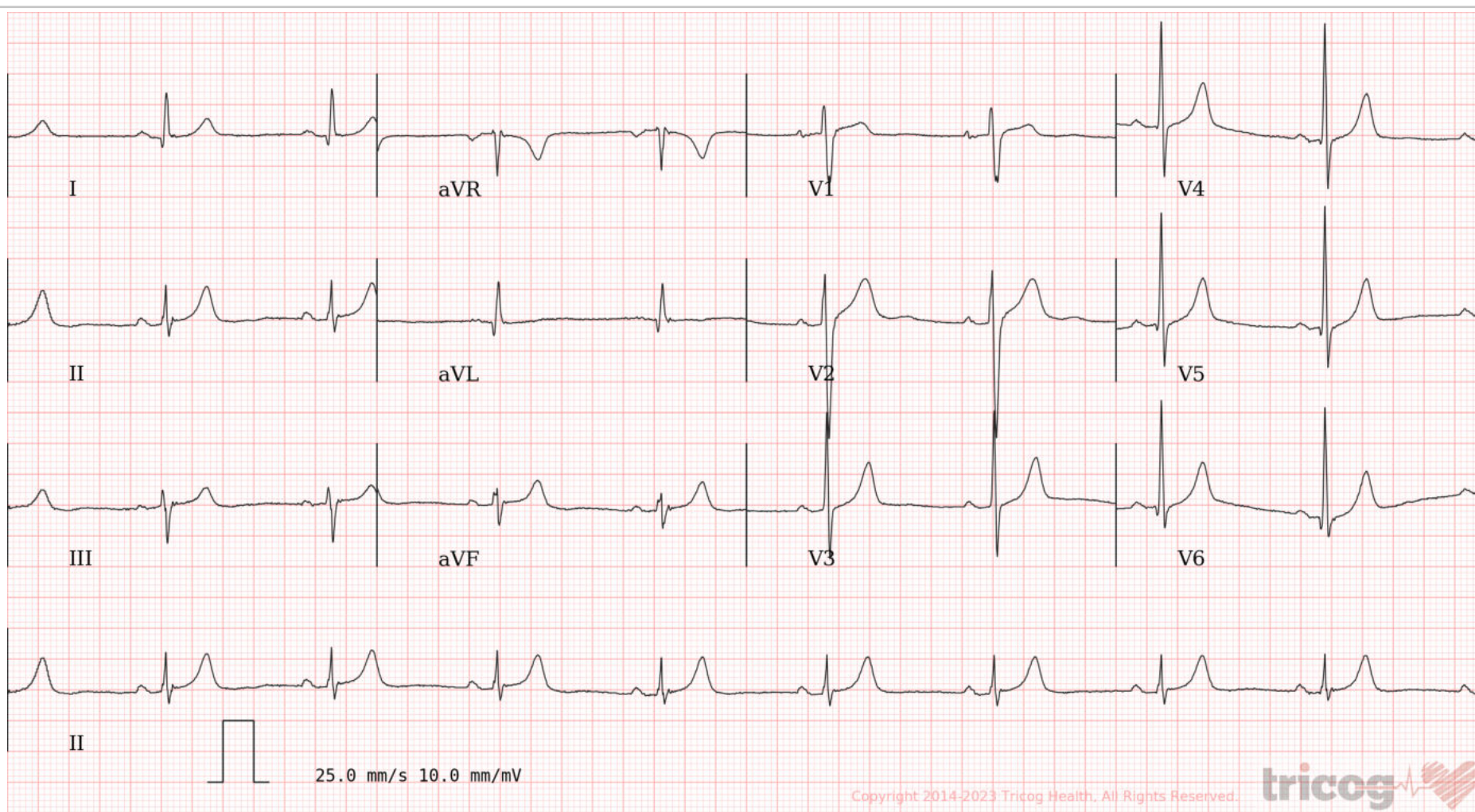
QRSD: 94ms

QT: 402ms

QTcB: 387ms

PR: 160ms

P-R-T: 48° 4° 58°



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

REPORTED BY

Dr Nitin Sonavane  
M.B.B.S.AFLH, D.DIAB,D.CARD  
Consultant Cardiologist  
87714

भारत सरकार  
GOVERNMENT OF INDIA

डिलीप कमलाकर पिंपळे  
Dilip Kamalakar Pimpale

जन्म वर्ष / Year of Birth : 1962  
पुरुष / Male



9749 7020 0163

आधार - सामान्य माणसाचा अधिकार

*[Handwritten signature]*

**Suburban Diagnostics (I) Pvt. Ltd.**  
301& 302, 3rd Floor, Vini Elegance,  
Above Tanisq Jeweller, L. T. Road,  
Borivali (West), Mumbai - 400 092.

Name ;DILIP PIMPLE CID:- 2309821437

History and Complaints:

NIL KICLO scleroderma. :- 1st fl

EXAMINATION FINDINGS:

Height (cms):180cm

Temp (0c): Afebrile

Blood Pressure (mm/hg): 140/90 mmhg

Pulse: 74/min

Weight (kg):75 kg

Skin: Normal

Nails: Normal

Lymph Node: Not palpable

Systems:

Cardiovascular:- S1S2 audible

Respiratory:- AEBE

Genitourinary:- NAD

GI System:- Liver & Spleen Not Palpable

CNS:- NAD

IMPRESSION:

Normal

ADVICE:

CHIEF COMPLAINTS:

- 1) Hypertension-No
- 2) IHD:- No
- 3) Arrhythmia:- No
- 4) Diabetes Mellitus:-NO
- 5) Tuberculosis:- NO
- 6) Asthama:- No

- 7) Pulmonary Disease:- No
- 8) Thyroid/ Endocrine disorders:-NO
- 9) Nervous disorders:- No
- 10) GI system:- No
- 11) Genital urinary disorder:- No
- 12) Rheumatic joint diseases or symptoms:- No
- 13) Blood disease or disorder:- No
- 14) Cancer/lump growth/cyst:- No
- 15) Congenital disease:- No
- 16) Surgeries:- No
- 17) Musculoskeletal System:- No

**PERSONAL HISTORY:**

- 1) Alcohol:- No
- 2) Smoking:- NO
- 3) Diet:-MIX
- 4) Medication:-NO



Dr. Nitin Sonavane

PHYSICIAN

**DR. NITIN SONAVANE**  
M.B.B.S.AFLH, D.DIAB, D.CARD.  
CONSULTANT-CARDIOLOGIST  
REGD. NO. : 87714

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Date:- 08/04/2023  
Name:- Dilip Aimpale

CID: 2309821437  
Sex / Age: M / 60

**EYE CHECK UP**

Chief complaints: | Nil

Systemic Diseases: | Nil

Past history: | Nil

Unaided Vision:

Aided Vision:

Refraction:

R/E  
6/18  
NB

L/E  
6/18  
NB

	(Right Eye)				(Left Eye)			
	Sph	Cyl	Axis	Vn	Sph	Cyl	Axis	Vn
Distance								
Near								

Colour Vision: Normal / Abnormal

Remark: R-G

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<b>CID NO: 2309821437</b>	
<b>PATIENT'S NAME: MR.DILIP PIMPALE</b>	<b>AGE/SEX: 60 Y/M</b>
<b>REF BY: -----</b>	<b>DATE: 08/04/2023</b>

**2-D ECHOCARDIOGRAPHY**

1. RA, LA RV is Normal Size.
2. No LV Hypertrophy.
3. Normal LV systolic function. LVEF 60 % by bi-plane
4. No RWMA at rest.
5. Aortic, Mitral, Tricuspid valves normal. Trivial PR.
6. Great arteries: Aorta: Normal
  - a. No mitral valve prolaps.
7. Inter-ventricular septum is intact and normal.
8. Intra Atrial Septum intact.
9. Pulmonary vein, IVC, hepatic are normal.
- 10.No LV clot.
- 11.No Pericardial Effusion
- 12.No Diastolic dysfunction. No Doppler evidence of raised LVEDP.

PATIENT'S NAME: MR.DILIP PIMPALE		AGE/SEX: 60 Y/M
REF BY: -----		DATE: 08/04/2023

1. AO root diameter	3.0 cm
2. IVSd	1.3 cm
3. LVIDd	4.2 m
4. LVIDs	2.2 cm
5. LVPWd	1.3 cm
6. LA dimension	3.5 cm
7. RA dimension	3.5 cm
8. RV dimension	3.0 cm
9. Pulmonary flow vel:	0.9 m/s
10. Pulmonary Gradient	3.4 m/s
11. Tricuspid flow vel	1.5 m/s
12. Tricuspid Gradient	9 m/s
13. PASP by TR Jet	19 mm Hg
14. TAPSE	3.0 cm
15. Aortic flow vel	1.1 m/s
16. Aortic Gradient	5.0 m/s
17. MV:E	0.8 m/s
18. A vel	0.7 m/s
19. IVC	16 mm
20. E/E'	8


**Impression:**

Normal 2d echo study.

**Disclaimer**

Echo may have inter/intra observer variations in measurements as the study is observer dependent and changes with Pt's hemodynamics. Please co-relate findings with patients clinical status.

\*\*\*End of Report\*\*\*

  
**DR. S. NITIN**  
Consultant Cardiologist  
Reg. No. 87714

CID : 2309821437  
Name : Mr DILIP PIMPALE  
Age / Sex : 60 Years/Male  
Ref. Dr :  
Reg. Location : Borivali West

Reg. Date : 08-Apr-2023  
Reported : 08-Apr-2023 / 12:27

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**X-RAY CHEST PA VIEW**

Increased bronchovascular markings are seen bilaterally.

Rest of the 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.

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



DR.SUDHANSHU SAXENA  
Consultant Radiologist  
M.B.B.S DMRE (RadioDiagnosis)  
RegNo .MMC 2016061376.

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CID : 2309821437  
Name : MR.DILIP PIMPALE  
Age / Gender : 60 Years / Male  
Consulting Dr. : -  
Reg. Location : Borivali West (Main Centre)

Collected : 08-Apr-2023 / 09:05  
Reported : 08-Apr-2023 / 13:47

**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
<b>CBC (Complete Blood Count), Blood</b>			
<b>RBC PARAMETERS</b>			
Haemoglobin	12.1	13.0-17.0 g/dL	Spectrophotometric
RBC	4.44	4.5-5.5 mil/cmm	Elect. Impedance
PCV	35.9	40-50 %	Measured
MCV	81	80-100 fl	Calculated
MCH	27.2	27-32 pg	Calculated
MCHC	33.7	31.5-34.5 g/dL	Calculated
RDW	13.9	11.6-14.0 %	Calculated
<b>WBC PARAMETERS</b>			
WBC Total Count	5000	4000-10000 /cmm	Elect. Impedance
<b>WBC DIFFERENTIAL AND ABSOLUTE COUNTS</b>			
Lymphocytes	40.6	20-40 %	Calculated
Absolute Lymphocytes	2030.0	1000-3000 /cmm	Calculated
Monocytes	5.7	2-10 %	Calculated
Absolute Monocytes	285.0	200-1000 /cmm	Calculated
Neutrophils	47.2	40-80 %	Calculated
Absolute Neutrophils	2360.0	2000-7000 /cmm	Calculated
Eosinophils	6.5	1-6 %	Calculated
Absolute Eosinophils	325.0	20-500 /cmm	Calculated
Basophils	0.0	0.1-2 %	Calculated
Absolute Basophils	0.0	20-100 /cmm	Calculated
Immature Leukocytes	-		
WBC Differential Count by Absorbance & Impedance method/Microscopy.			
<b>PLATELET PARAMETERS</b>			
Platelet Count	214000	150000-400000 /cmm	Elect. Impedance
MPV	9.0	6-11 fl	Calculated
PDW	12.8	11-18 %	Calculated
<b>RBC MORPHOLOGY</b>			



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: 08-Apr-2023 / 11:48

Hypochromia -  
Microcytosis -  
Macrocytosis -  
Anisocytosis -  
Poikilocytosis -  
Polychromasia -  
Target Cells -  
Basophilic Stippling -  
Normoblasts -  
Others - Normocytic, Normochromic  
WBC MORPHOLOGY -  
PLATELET MORPHOLOGY -  
COMMENT -

Specimen: EDTA Whole Blood

ESR, EDTA WB-ESR

29

2-20 mm at 1 hr.

Sedimentation

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West  
\*\*\* End Of Report \*\*\*



*Bmhasakar*  
Dr.KETAKI MHASKAR  
M.D. (PATH)  
Pathologist



CID : 2309821437  
Name : MR.DILIP PIMPALE  
Age / Gender : 60 Years / Male  
Consulting Dr. : -  
Reg. Location : Borivali West (Main Centre)

Collected : 08-Apr-2023 / 09:05  
Reported : 08-Apr-2023 / 17:01

**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
GLUCOSE (SUGAR) FASTING, Fluoride Plasma	97.7	Non-Diabetic: < 100 mg/dl Impaired Fasting Glucose: 100-125 mg/dl Diabetic: >/= 126 mg/dl	Hexokinase
GLUCOSE (SUGAR) PP, Fluoride Plasma PP/R	93.0	Non-Diabetic: < 140 mg/dl Impaired Glucose Tolerance: 140-199 mg/dl Diabetic: >/= 200 mg/dl	Hexokinase
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 Borivali Lab, Borivali West  
\*\*\* End Of Report \*\*\*



*Bmhasakar*

**Dr.KETAKI MHASKAR**  
M.D. (PATH)  
Pathologist



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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**KIDNEY FUNCTION TESTS**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
BLOOD UREA, Serum	27.2	19.29-49.28 mg/dl	Calculated
BUN, Serum	12.7	9.0-23.0 mg/dl	Urease with GLDH
CREATININE, Serum	0.79	0.60-1.10 mg/dl	Enzymatic
eGFR, Serum	106	>60 ml/min/1.73sqm	Calculated
Note: eGFR estimation is calculated using MDRD (Modification of diet in renal disease study group) equation			
TOTAL PROTEINS, Serum	7.6	5.7-8.2 g/dL	Biuret
ALBUMIN, Serum	4.4	3.2-4.8 g/dL	BCG
GLOBULIN, Serum	3.2	2.3-3.5 g/dL	Calculated
A/G RATIO, Serum	1.4	1 - 2	Calculated
URIC ACID, Serum	4.6	3.7-9.2 mg/dl	Uricase/ Peroxidase
PHOSPHORUS, Serum	3.2	2.4-5.1 mg/dl	Phosphomolybdate
CALCIUM, Serum	9.7	8.7-10.4 mg/dl	Arsenazo
SODIUM, Serum	141	136-145 mmol/l	IMT
POTASSIUM, Serum	4.6	3.5-5.1 mmol/l	IMT
CHLORIDE, Serum	104	98-107 mmol/l	IMT

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab  
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*Anupa*

**Dr. ANUPA DIXIT**  
M.D.(PATH)  
Consultant Pathologist & Lab Dir



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Reg. Location : Borivali West (Main Centre)

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Reported : 08-Apr-2023 / 16:33

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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**GLYCOSYLATED HEMOGLOBIN (HbA1c)**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
Glycosylated Hemoglobin (HbA1c), EDTA WB - CC	4.7	Non-Diabetic Level: < 5.7 % Prediabetic Level: 5.7-6.4 % Diabetic Level: >/= 6.5 %	HPLC
Estimated Average Glucose (eAG), EDTA WB - CC	88.2	mg/dl	Calculated

Note: Variant window (40.5%) detected. Advice: Hb electrophoresis for confirmation of abnormal hemoglo

**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.



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



*Anupa*  
**Dr. ANUPA DIXIT**  
M.D.(PATH)  
Consultant Pathologist & Lab Director



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Age / Gender : 60 Years / Male  
Consulting Dr. : -  
Reg. Location : Borivali West (Main Centre)

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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO  
PROSTATE SPECIFIC ANTIGEN (PSA)**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
TOTAL PSA, Serum	0.627	<4.0 ng/ml	CLIA

**Clinical Significance:**

- PSA is detected in the serum of males with normal, benign hyper-plastic, and malignant prostate tissue.
- Monitoring patients with a history of prostate cancer as an early indicator of recurrence and response to treatment.
- Prostate cancer screening 4. The percentage of Free PSA (FPSA) in serum is described as being significantly higher in patients with BPH than in patients with prostate cancer. 5. Calculation of % free PSA (ie. FPSA/TPSA x 100 ), has been suggested as way of improving the differentiation of BPH and Prostate cancer.

**Interpretation:**

Increased In- Prostate diseases, Cancer, Prostatitis, Benign prostatic hyperplasia, Prostatic ischemia, Acute urinary retention, Manipulations like Prostatic massage, Cystoscopy, Needle biopsy, Transurethral resection, Digital rectal examination, Radiation therapy, Indwelling catheter, Vigorous bicycle exercise, Drugs (e.g., testosterone), Physiologic fluctuations. Also found in small amounts in other cancers (sweat and salivary glands, breast, colon, lung, ovary) and in Skene glands of female urethra and in term placenta, Acute renal failure, Acute myocardial infarction, Decreased In- Ejaculation within 24-48 hours, Castration, Antiandrogen drugs (e.g., finasteride), Radiation therapy, Prostatectomy, PSA falls 17% in 3 days after lying in hospital, Artfactual (e.g., improper specimen collection; very high PSA levels). Finasteride (5- $\alpha$ ;-reductase inhibitor) reduces PSA by 50% after 6 months in men without cancer.

Reflex Tests: % FREE PSA , USG Prostate

**Limitations:**

- tPSA values determined on patient samples by different testing procedures cannot be directly compared with one another and could be the cause of erroneous medical interpretations. If there is a change in the tPSA assay procedure used while monitoring therapy, then the tPSA values obtained upon changing over to the new procedure must be confirmed by parallel measurements with both methods. Immediate PSA testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization, ultrasonography and needle biopsy of prostate is not recommended as they falsely elevate levels.
- Patients who have been regularly exposed to animals or have received immunotherapy or diagnostic procedures utilizing immunoglobulins or immunoglobulin fragments may produce antibodies, e.g. HAMA, that interferes with immunoassays.
- PSA results should be interpreted in light of the total clinical presentation of the patient, including: symptoms, clinical history, data from additional tests, and other appropriate information.
- Serum PSA concentrations should not be interpreted as absolute evidence for the presence or absence of prostate cancer.

**Reference:**

- Wallach's Interpretation of diagnostic tests
- Total PSA Pack insert



*Anupa*

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Consultant Pathologist & Lab Director



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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**URINE EXAMINATION REPORT**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
<b>PHYSICAL EXAMINATION</b>			
Color	Pale yellow	Pale Yellow	-
Reaction (pH)	5.0	4.5 - 8.0	Chemical Indicator
Specific Gravity	1.015	1.001-1.030	Chemical Indicator
Transparency	Clear	Clear	-
Volume (ml)	40	-	-
<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	1-2	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	3-4	Less than 20/hpf	-
Others	-	-	-

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 insert

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD Borivali Lab, Borivali West



*Bmhasakar*

**Dr.KETAKI MHASKAR**  
M.D. (PATH)  
Pathologist



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Reg. Location : Borivali West (Main Centre)

Collected :  
Reported :

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



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Reg. Location : Borivali West (Main Centre)

Collected : 08-Apr-2023 / 09:05  
Reported : 08-Apr-2023 / 15:18

**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**BLOOD GROUPING & Rh TYPING**

PARAMETER	RESULTS
ABO GROUP	A
Rh TYPING	Positive

NOTE: Test performed by automated Erythrocytes magnetized technology (EMT) which is more sensitive than conventional methods.

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.

**References:**

1. Denise M Harmening, Modern Blood Banking and Transfusion Practices- 6th Edition 2012. F.A. Davis company. Philadelphia
2. AABB technical manual

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab  
\*\*\* End Of Report \*\*\*



*Dr. Leena Salunkhe*  
**Dr.LEENA SALUNKHE**  
**M.B.B.S, DPB (PATH)**  
**Pathologist**



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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**LIPID PROFILE**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
CHOLESTEROL, Serum	145.2	Desirable: <200 mg/dl Borderline High: 200-239mg/dl High: >=240 mg/dl	CHOD-POD
TRIGLYCERIDES, Serum	64.9	Normal: <150 mg/dl Borderline-high: 150 - 199 mg/dl High: 200 - 499 mg/dl Very high:>=500 mg/dl	Enzymatic colorimetric
HDL CHOLESTEROL, Serum	35.0	Desirable: >60 mg/dl Borderline: 40 - 60 mg/dl Low (High risk): <40 mg/dl	Elimination/ Catalase
NON HDL CHOLESTEROL, Serum	110.2	Desirable: <130 mg/dl Borderline-high:130 - 159 mg/dl High:160 - 189 mg/dl Very high: >=190 mg/dl	Calculated
LDL CHOLESTEROL, Serum	97.3	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	12.9	< /= 30 mg/dl	Calculated
CHOL / HDL CHOL RATIO, Serum	4.1	0-4.5 Ratio	Calculated
LDL CHOL / HDL CHOL RATIO, Serum	2.8	0-3.5 Ratio	Calculated

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



*Anupa*

**Dr. ANUPA DIXIT**  
**M.D.(PATH)**  
Consultant Pathologist & Lab D



CID : 2309821437  
Name : MR.DILIP PIMPALE  
Age / Gender : 60 Years / Male  
Consulting Dr. : -  
Reg. Location : Borivali West (Main Centre)

Collected : 08-Apr-2023 / 09:05  
Reported : 08-Apr-2023 / 16:14

**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**THYROID FUNCTION TESTS**

<u>PARAMETER</u>	<u>RESULTS</u>	<u>BIOLOGICAL REF RANGE</u>	<u>METHOD</u>
Free T3, Serum	5.2	3.5-6.5 pmol/L	CLIA
Free T4, Serum	10.7	11.5-22.7 pmol/L	CLIA
sensitiveTSH, Serum	3.939	0.55-4.78 microlU/ml	CLIA



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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 upto 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 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:**

- 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.
- 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:**

- O.koulouri et al. / Best Practice and Research clinical Endocrinology and Metabolism 27(2013)
- Interpretation of the thyroid function tests, Dayan et al. THE LANCET. Vol 357
- Tietz, Text Book of Clinical Chemistry and Molecular Biology -5th Edition
- Biological Variation: From principles to Practice-Callum G Fraser (AACC Press)

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab  
\*\*\* End Of Report \*\*\*



*Namrata Raul*  
**Dr.NAMRATA RAUL**  
M.D (Biochem)  
Biochemist



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**MEDIWHEEL FULL BODY HEALTH CHECKUP MALE ABOVE 40/2D ECHO**  
**LIVER FUNCTION TESTS**

PARAMETER	RESULTS	BIOLOGICAL REF RANGE	METHOD
BILIRUBIN (TOTAL), Serum	0.42	0.2-1.1 mg/dl	Vanadate oxidation
BILIRUBIN (DIRECT), Serum	0.15	0-0.3 mg/dl	Vanadate oxidation
BILIRUBIN (INDIRECT), Serum	0.27	<1.2 mg/dl	Calculated
TOTAL PROTEINS, Serum	7.6	5.7-8.2 g/dL	Biuret
ALBUMIN, Serum	4.4	3.2-4.9 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	23.8	<34 U/L	Modified IFCC
SGPT (ALT), Serum	13.8	10-49 U/L	Modified IFCC
GAMMA GT, Serum	13.1	<73 U/L	Modified IFCC
ALKALINE PHOSPHATASE, Serum	60.2	46-116 U/L	Modified IFCC

\*Sample processed at SUBURBAN DIAGNOSTICS (INDIA) PVT. LTD SDRL, Vidyavihar Lab  
\*\*\* End Of Report \*\*\*



*Anupa*

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Authenticity Check



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Ref. Dr :  
Reg. Location : Borivali West

Reg. Date : 08-Apr-2023  
Reported : 08-Apr-2023 / 11:11

## USG WHOLE ABDOMEN

**LIVER:** Liver is normal in size, shape and echotexture. There is no intra-hepatic biliary radical dilatation. No evidence of any obvious focal lesion.

**GALL BLADDER:** Gall bladder is distended and appears normal. No obvious wall thickening is noted. There is no evidence of any calculus.

**PORTAL VEIN:** Portal vein is normal. **CBD:** CBD is normal.

**PANCREAS:** Pancreas appears normal in echotexture. There is no evidence of any focal lesion or calcification.

**KIDNEYS:** Right kidney measures 9.2 x 4.2 cm. Left kidney measures 11 x 5.3 cm. Both kidneys are normal in shape and echotexture. Corticomedullary differentiation is maintained. There is no evidence of any hydronephrosis, hydroureter or calculus.

**SPLEEN:** Spleen is normal in size, shape and echotexture. No focal lesion is seen.

**URINARY BLADDER:** Urinary bladder is distended and normal. Wall thickness is within normal limits.

**PROSTATE:** Prostate is normal in size and echotexture. Prostate measures 2.9 x 3.0 x 2.9 cm and prostatic weight is 14 gm. No evidence of any obvious focal lesion.

No free fluid or size significant lymphadenopathy is seen.

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**Opinion:**

- No significant abnormality is detected.

*For clinical correlation and follow up.*

Investigations have their limitations. They only help in diagnosing the disease in correlation to clinical symptoms and other related tests. Please interpret accordingly.

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

DR.SUDHANSHU SAXENA  
Consultant Radiologist  
M.B.B.S DMRE (RadioDiagnosis)  
RegNo .MMC 2016061376.

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