



IMMUNO-DIAGNOSTIC &amp; PATHOLOGY LABORATORY

Halar Road Cross Lane, Besides L.I.C. Bldg.  
Valsad-396 001. Ph.: (02632) 243280. Mo.: 99250 49280

**MUKESH D BHANDARI**  
**Male/53 Years**

Reg. Date : **29/12/2022**  
 Lab. No **124634-18**  
 Sample No  
 \*5073\*

Ref. Dr.

**Dr. (Mrs.) SHASHIKALA DERAJE M B B S. A.F.I.H**  
**VIBRANT HOSPITAL VAP1**

## H E M A T O L O G Y   R E P O R T

| Test                          | Result            | Unit                        | Ref. Range             |
|-------------------------------|-------------------|-----------------------------|------------------------|
| <b>Haemoglobin:</b>           | 14.4              | g/dL                        | 13.0 - 17.0 g/dL       |
| <b>Total Leucocyte Count:</b> | 6240              | X 10 <sup>3</sup> / $\mu$ L | 4000 - 10000 /uL       |
| <b>Differential Count</b>     |                   |                             |                        |
| Neutrophils:                  | 46                | %                           | 40-80                  |
| Eosinophils:                  | 02                | %                           | 1.0-6.0                |
| Basophils:                    | 00                | %                           | <1-2                   |
| Lymphocytes:;                 | <b>44</b>         | %                           | M: 20-40; F: 20-40     |
| Monocytes:                    | 08                | %                           | 2-10                   |
| Neutrophils Absolute Count:   | 2.86              | X 10 <sup>3</sup> / $\mu$ L | 2.0-7.0                |
| Eosinophils Absolute Count:   | 0.14              | X 10 <sup>3</sup> / $\mu$ L | 0.02-0.50              |
| Basophils Absolute Count:     | 0.06              | X 10 <sup>3</sup> / $\mu$ L | 0.02-0.10              |
| Lymphocytes Absolute Count:   | 2.75              | X 10 <sup>3</sup> / $\mu$ L | 1.0-3.0                |
| Monocytes Absolute Count:     | 0.43              | X 10 <sup>3</sup> / $\mu$ L | 0.2-1.0                |
| <b>Total RBC Count:</b>       | 4.86              | X 10 <sup>6</sup> / $\mu$ L | M: 4.5-5.5; F: 3.9-4.8 |
| <b>Hematocrit (HCT):</b>      | 42.3              | %                           | 42 - 52 %              |
| MCV:                          | 87.1              | fL                          | 83 - 101               |
| MCH:                          | 29.6              | pg                          | 27-32                  |
| MCHC:                         | 34.0              | g/dL                        | 31.5 - 34.5            |
| RDW-SD:                       | <b>44.2</b>       | fL                          | 39 - 46                |
| RDW-CV:                       | 12.4              | %                           | 11.6 - 14.0            |
| <b>Platelets Count:</b>       | 332000            | / $\mu$ L                   | 150000 - 400000        |
| Plateletcrit (PCT):           | 0.284             | %                           |                        |
| Mean Platelet Volume          | 8.5               | fL                          |                        |
| Malariaial Parasite           | M.P. are not seen |                             |                        |

**Method:** Fully automated bidirectional interfaced analyser (6 Part Differential **SYSMEX XN-1000**).

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 M.D.(Path & Bact)

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## **B L O O D   G R O U P**

| <b>Test</b>  | <b>Result</b>                 |
|--------------|-------------------------------|
| BLOOD GROUP: | <b>"B"Rh. <u>POSITIVE</u></b> |

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## ESR

| Test                                    | Result | Unit      | Ref. Range        |
|---|--------|-----------|-------------------|
| <b>Erythrocyte Sedimentation Rate:-</b> |        |           |                   |
| After one Hour:                         | 07     | mm in 1Hr | 2 - 13 mm in 1Hr. |

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## BLOOD GLUCOSE REPORT

| Test                       | Result | Unit  | Ref. Range     |
|----------------------------|--------|-------|----------------|
| Fasting Blood Sugar(FBS) : | 96     | mg/dl | 70 - 110 mg/dl |

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## L I P I D   P R O F I L E

| Test                               | Result                | Unit  | Ref. Range  |
|------------------------------------|-----------------------|-------|---|
| S. Cholesterol:                    | <b><u>220.48</u></b>  | mg/dL | DESIRABLE < 200<br>BORDERLINE HIGH 200 - 239<br>HIGH RISK > 240                             |
| S. Triglyceride:                   | 170.83                | mg/dL | 25 - 175 mg/dL  |
| S. HDL Cholesterol (HDL - C):      | 44.41                 | mg/dL | LOW RISK > 60<br>MODERATE RISK 35 - 60<br>HIGH RISK <35                                     |
| S. LDL Cholesterol (LDL - C)       | <b><u>141.904</u></b> | mg/dL | OPTIMAL <100<br>NEAR/ABOVE OPTIMAL 100 - 129<br>BORDERLINE HIGH 130 -159<br>HIGH RISK > 160 |
| S. VLDL Cholesterol (VLDL - C)     | 34.17                 | mg/dL | 7.0 - 35 mg/dl  |
| Cholesterol/HDL Cholesterol Ratio: | 4.96                  |       | 0 - 4.9   |
| S. LDL/HDL Cholesterol Ratio:      | 3.2                   |       | up to 3.5   |

### INTERPRETATION AND DECISION LEVELS

- 1) Do Not Use Age Or Sex Specific Cholesterol Value As Decision Levels.
- 2) Before Starting Therapy Base **Ldl Levels by Direct Measurements** Should Be Done As The Treatment Goals Are Monitored By Measuring Ldl.
- 3) Average Of 2 To 3 Lipid Profiles Done 1 To 8 Weeks Apart Before Starting Therapy.
- 4) Ranges Give Are The Desirable Levels I.e 75th Percentile Value.
- 5) Always Rule Out Secondary And Familial Hyper Lipidaemias.
- 6) Apo A -1 And Apo B Levels Are Better Discriminators Of CHD Then Cholesterol Level.
- 7) Low Plasma Apo A-1 And Apo A -1 To B Ratio Is The Best Predictor.
- 8) Low Plasma **B-12 And Folate Levels** Are Each Independent Risk Factors For CAD.
- 9) Higher Atherogenic Index Is A Risk Factor.
- 10) Hyperhomocysteinemia Increases The Risk.

### DECISION LEVELS

|                     | LDL       | HDL   | CHOL    | LDL/HDL RATIO | TRIGLYCERIDES |
|---------------------|-----------|-------|---------|---------------|---------------|
| DESIRABLE/LOW RISK  | <100      | >60   | <200    | 0.5 - 3.0     | <200          |
| BORDERLINE/MODERATE | 130 - 159 | 35-60 | 200-239 | 3.0 - 6.0     | 200 - 400     |
| ELEVATED/HIGH RISK  | >160      | <35   | >240    | >6.0          | 400 - 1000    |

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## BIOCHEMISTRY REPORT

| Test                  | Result      | Unit  | Ref. Range        |
|-----------------------|-------------|-------|-------------------|
| SERUM BILIRUBIN       |             |       |                   |
| Total:                | <b>1.60</b> | mg/dL | 1.0               |
| Direct:               | 0.22        | mg/dL | 0.0 - 0.4         |
| Indirect:             | <b>1.38</b> | mg/dL | 0.0 - 0.6 mg/dL   |
| S.G.O.T. (AST):       | 27.57       | IU/L  | 10 - 40 U/L       |
| S.G.P.T. (ALT):       | 27.30       | IU/L  | 10 - 40 IU/L      |
| Alkaline Phosphatase: | 64.3        | U/L   | 30 - 115 U/L      |
| S.Creatinine:         | 1.22        | mg/dL | 0.60 - 1.30 mg/dL |
| S.Urea:               | 24.68       | mg/dL | 15 - 40 mg/dL     |
| S. URIC ACID:         | 6.08        | mg/dL | 2.5 - 8.0 mg/dL   |

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## SERUM TOTAL PROTEINS

| Test                    | Result | Unit  | Ref. Range       |
|-------------------------|--------|-------|------------------|
| <b>S.Protein :</b>      |        |       |                  |
| Total Protein:          | 7.17   | gm/dl | 5.5 - 8.0 g/dL   |
| Albumin:                | 4.43   | gm/dl | 3.2 - 5.2 g/dL   |
| Globulin:               | 2.74   | gm/dl | 2.0 - 3.5 gms/dl |
| Albumin Globulin Ratio: | 1.62   |       |                  |

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## S E R U M P H O S P H O R U S

| Test            | Result | Unit  | Ref. Range      |
|-----------------|--------|-------|-----------------|
| S. Phosphorus : | 3.34   | mg/dL | 3.0 - 5.0 mg/dl |

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## URINE REPORT

| Test                                  | Result      | Unit  | Ref. Range        |
|---------------------------------------|-------------|-------|-------------------|
| <b><u>PHYSICAL EXAMINATION</u></b>    |             |       |                   |
| QUANTITY                              | 20          | mL    | 500 - 2000/24 HRS |
| COLOUR                                | PALE YELLOW |       |                   |
| APPEARANCE                            | Clear       | Clear |                   |
| REACTION(PH)                          | 6.0         |       | 4.6 - 8.0         |
| SPECIFIC GRAVITY                      | 1.025       |       | 1.005 - 1.030     |
| <b><u>CHEMICAL EXAMINATION</u></b>    |             |       |                   |
| URINE ALBUMIN                         | Nil         |       | Absent            |
| URINE SUGAR(Qualitative)              | Nil         |       | Absent            |
| KETONES                               | Absent      |       | Absent            |
| BILE SALTS                            | Absent      |       | Absent            |
| BILE PIGMENTS                         | Absent      |       | Absent            |
| UROBILOGEN                            | Normal      |       | Normal            |
| BLOOD                                 | Absent      |       | Absent            |
| <b><u>MICROSCOPIC EXAMINATION</u></b> |             |       |                   |
| PUS CELLS/HPF                         | 2 - 3 / HPF | /HPF  | 1 - 5             |
| RED BLOOD CELLS/HPF                   | Absent      | /HPF  | 0 - 2/hpf         |
| EPITHELIAL CELLS/HPF                  | 2 - 3 / HPF | /HPF  |                   |
| CASTS/LPF                             | Absent      |       |                   |
| CRYSTALS                              | Absent      |       |                   |
| BACTERIA                              | ABSENT      |       |                   |
| YEAST                                 | Absent      |       |                   |
| NOTE                                  |             |       |                   |
| REMARK                                |             |       |                   |

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## THYROID FUNCTION TEST

| Test                                     | Result | Unit   | Ref. Range       |
|--|--------|--------|------------------|
| <b>TSH (Thyroid Stimulating Hormone)</b> | 4.26   | uIU/mL | 0.3 - 5.0 uIU/mL |

### THYROID FUNCTION TESTS BY ELECTROCHEMILUMINESCENCE (ECLIA) ON ELECSYS 2010.

T3 And T4 Are The Hormones Synthesised & Secreted By Throid Gland,Plays Important Role In Body's metabolism.TSH Is Synthesised & Secreted By Anterior Pitutary Gland In Response To Thyrotropin Releasing Hormone (trh) Secreted By Hypothalamus.The Secretion Of T3 & T4 Is Regulated By Negative Feedback Mechanism Involving Thyroid Gland,Pitutary gland & Hypothalamus.

In The Circulation 99.7% Of T3 & 99.95% Of T4 Is Reversibly Bound To Transport Proteins Primarily, Thyroxine Binding Globulin (TBG) & Thyroxine Binding Prelalbumin (TBPA),are Metabolically Inactive. Free T3 & Free T4 Are Metabolically Active Hormones Responsible For The Actions Hence Reflects The Thyroid Metabolic Status Better Then Total T3 & T4.

TBG Concentration Remains Relative Constant In Healthy Individuals.however Pregnancy,excess estrogens, androgens,anabolic Steroids & Gluco Corticodis Are Known To Alter TBG Levels & May Cause False Values For Thyroid Function TestS,T3 And T4 Levels May Not Accurately Reflect Thyroid Status.

Primary Malfuction Of The Thyroid Gland May Result In Excessive (hyper) Or Below Normal (hypo) Release of T3 & T4.In Addition TSH Directly Effects Thyroid Function.Malfuction Of The Pitutary Or The Hypothalamus Influences The Thyroid Gland Acitvity.

Disease In Any Portion Of The Thyroid - Pitutary - Hypothalamic System May Influence The Levels Of T3 & T4 In The Blood.The TSH Level Is Important In Evaluating Thyroid Function Especially For The Differential Diagnosis Of Primary (thyoid) From Secondary (pitutary) And Tertiary (hypothalamus) Hypo Thyroidism.

In Primary Hypothyroidism TSH Levels Are Significatly Elevated, While In Secondary & Tertiary Hypothyroidism TSH Levels Are Low.In Addition In The Euthyroid Sick Syndrome Multiple Alterations In Thyroid Function Tests Findings Have Been Recognised In Patiens With A Wide Variely Of Non Thyroidal Illnesses Withouth Evidence Of Pre-existing Thyroid Or Hypothalamic Pitutary Disease.

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## SERUM CALCIUM

| Test         | Result | Unit  | Ref. Range       |
|--------------|--------|-------|------------------|
| S. Calcium : | 9.86   | mg/dL | 9.0 - 10.5 mg/dl |

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