

Name : Mr. VARANASI RAVINDRA  
PID No. : MED111393594  
SID No. : 79836938  
Age / Sex : 45 Year(s) / Male  
Type : OP  
Ref. Dr : MediWheel

Register On : 26/11/2022 7:56 AM  
Collection On : 26/11/2022 10:09 AM  
Report On : 26/11/2022 2:32 PM  
Printed On : 05/12/2022 5:40 PM



| <u>Investigation</u>  | <u>Observed Value</u> | <u>Unit</u> | <u>Biological Reference Interval</u> |
|---|-----------------------|-------------|--------------------------------------|
| BLOOD GROUPING AND Rh TYPING<br>(Blood/Agglutination)                     | 'O' 'Positive'        |             |                                      |
| <b><u>Complete Blood Count With - ESR</u></b>                             |                       |             |                                      |
| Haemoglobin<br>(Blood/Spectrophotometry)                                  | 14.1                  | g/dL        | 13.5 - 18.0                          |
| Packed Cell Volume(PCV)/Haematocrit<br>(Blood/Numeric Integration of MCV) | 42.1                  | %           | 42 - 52                              |
| RBC Count<br>(Blood/Electrical Impedance )                                | <b>4.53</b>           | mill/cu.mm  | 4.7 - 6.0                            |
| Mean Corpuscular Volume(MCV)<br>(Blood/Calculated)                        | 92.9                  | fL          | 78 - 100                             |
| Mean Corpuscular Haemoglobin(MCH)<br>(Blood/Calculated)                   | 31.2                  | pg          | 27 - 32                              |
| Mean Corpuscular Haemoglobin concentration(MCHC)<br>(Blood/Calculated)    | 33.6                  | g/dL        | 32 - 36                              |
| RDW-CV<br>(Calculated)  | 14.6                  | %           | 11.5 - 16.0                          |
| RDW-SD<br>(Calculated)  | 47.47                 | fL          | 39 - 46                              |
| Total Leukocyte Count (TC)<br>(Blood/Electrical Impedance )               | 7100                  | cells/cu.mm | 4000 - 11000                         |
| Neutrophils<br>(Blood/Impedance and absorbance)                           | 53.23                 | %           | 40 - 75                              |
| Lymphocytes<br>(Blood/Impedance and absorbance)                           | 27.75                 | %           | 20 - 45                              |
| Eosinophils<br>(Blood/Impedance and absorbance)                           | <b>9.71</b>           | %           | 01 - 06                              |
| Monocytes<br>(Blood/Impedance and absorbance)                             | 8.64                  | %           | 01 - 10                              |



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|   |      |   |         |
|---|------|---|---------|
| Basophils<br>(Blood/Impedance and absorbance) | 0.68 | % | 00 - 02 |
|---|------|---|---------|

**INTERPRETATION:** Tests done on Automated Five Part cell counter. All abnormal results are reviewed and confirmed microscopically.

|   |      |                           |           |
|---|------|---------------------------|-----------|
| Absolute Neutrophil count<br>(Blood/Impedance and absorbance) | 3.78 | 10 <sup>3</sup> / $\mu$ l | 1.5 - 6.6 |
|---|------|---------------------------|-----------|

|  |      |                           |           |
|--|------|---------------------------|-----------|
| Absolute Lymphocyte Count<br>(Blood/Impedance) | 1.97 | 10 <sup>3</sup> / $\mu$ l | 1.5 - 3.5 |
|--|------|---------------------------|-----------|

|  |             |                           |             |
|--|-------------|---------------------------|-------------|
| Absolute Eosinophil Count (AEC)<br>(Blood/Impedance) | <b>0.69</b> | 10 <sup>3</sup> / $\mu$ l | 0.04 - 0.44 |
|--|-------------|---------------------------|-------------|

|  |      |                           |       |
|--|------|---------------------------|-------|
| Absolute Monocyte Count<br>(Blood/Impedance) | 0.61 | 10 <sup>3</sup> / $\mu$ l | < 1.0 |
|--|------|---------------------------|-------|

|  |      |                           |       |
|--|------|---------------------------|-------|
| Absolute Basophil count<br>(Blood/Impedance) | 0.05 | 10 <sup>3</sup> / $\mu$ l | < 0.2 |
|--|------|---------------------------|-------|

|                                     |      |            |           |
|-------------------------------------|------|------------|-----------|
| Platelet Count<br>(Blood/Impedance) | 2.40 | lakh/cu.mm | 1.4 - 4.5 |
|-------------------------------------|------|------------|-----------|

**INTERPRETATION:** Platelet count less than 1.5 lakhs will be confirmed microscopically.

|                                       |             |    |            |
|---------------------------------------|-------------|----|------------|
| MPV<br>(Blood/Derived from Impedance) | <b>7.71</b> | fL | 7.9 - 13.7 |
|---------------------------------------|-------------|----|------------|

|                     |      |   |             |
|---------------------|------|---|-------------|
| PCT<br>(Calculated) | 0.19 | % | 0.18 - 0.28 |
|---------------------|------|---|-------------|

|  |    |       |      |
|--|----|-------|------|
| ESR (Erythrocyte Sedimentation Rate)<br>(Blood/Automated ESR analyser) | 08 | mm/hr | < 15 |
|--|----|-------|------|

|                        |     |  |  |
|------------------------|-----|--|--|
| BUN / Creatinine Ratio | 7.2 |  |  |
|------------------------|-----|--|--|

|  |            |       |  |
|--|------------|-------|--|
| Glucose Fasting (FBS)<br>(Plasma - F/Glucose oxidase/Peroxidase) | <b>102</b> | mg/dL | Normal: < 100<br>Pre Diabetic: 100 - 125<br>Diabetic: $\geq$ 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)<br>(Urine - F) | Negative |  | Negative |
|---|----------|--|----------|

|  |     |       |          |
|--|-----|-------|----------|
| Glucose Postprandial (PPBS)<br>(Plasma - PP/GOD - POD) | 118 | mg/dL | 70 - 140 |
|--|-----|-------|----------|

**P.V. Pradeep**  
P. Venkata Pradeep  
Lab Manager

VERIFIED BY

**Tanusha**  
Dr. Tanusha  
Consultant Pathologist  
Reg No- 070707

APPROVED BY

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|----------------------|-----------------------|-------------|--------------------------------------|

**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.

|   |          |  |          |
|---|----------|--|----------|
| Urine Glucose(PP-2 hours)<br>(Urine - PP) | Negative |  | Negative |
|---|----------|--|----------|

|   |     |       |          |
|---|-----|-------|----------|
| Blood Urea Nitrogen (BUN)<br>(Serum/Calculated) | 7.0 | mg/dL | 7.0 - 21 |
|---|-----|-------|----------|

|  |   |       |           |
|--|---|-------|-----------|
| Creatinine<br>(Serum/Jaffe ~ Alkaline Picrate) | 1 | mg/dL | 0.9 - 1.3 |
|--|---|-------|-----------|

|   |     |       |           |
|---|-----|-------|-----------|
| Uric Acid<br>(Serum/Uricase/Peroxidase) | 5.2 | mg/dL | 3.5 - 7.2 |
|---|-----|-------|-----------|

**Liver Function Test**

|   |     |       |           |
|---|-----|-------|-----------|
| Bilirubin(Total)<br>(Serum/Diazotized Sulphanilic acid) | 1.1 | mg/dL | 0.1 - 1.2 |
|---|-----|-------|-----------|

|  |                        |       |           |
|--|------------------------|-------|-----------|
| Bilirubin(Direct)<br>(Serum/Diazotized Sulphanilic acid) | <b>0.5 (Rechecked)</b> | mg/dL | 0.0 - 0.3 |
|--|------------------------|-------|-----------|

|   |      |       |           |
|---|------|-------|-----------|
| Bilirubin(Indirect)<br>(Serum/Calculated) | 0.60 | mg/dL | 0.1 - 1.0 |
|---|------|-------|-----------|

|   |    |     |        |
|---|----|-----|--------|
| SGOT/AST (Aspartate Aminotransferase)<br>(Serum/IFCC without P-5-P) | 25 | U/L | 5 - 40 |
|---|----|-----|--------|

|   |    |     |        |
|---|----|-----|--------|
| SGPT/ALT (Alanine Aminotransferase)<br>(Serum/IFCC without P-5-P) | 18 | U/L | 5 - 41 |
|---|----|-----|--------|

|   |    |     |          |
|---|----|-----|----------|
| Alkaline Phosphatase (SAP)<br>(Serum/IFCC AMP Buffer) | 69 | U/L | 53 - 128 |
|---|----|-----|----------|

|                                 |     |       |           |
|---------------------------------|-----|-------|-----------|
| Total Protein<br>(Serum/Biuret) | 6.5 | gm/dl | 6.0 - 8.0 |
|---------------------------------|-----|-------|-----------|

|                                      |     |       |           |
|--------------------------------------|-----|-------|-----------|
| Albumin<br>(Serum/Bromocresol green) | 4.4 | gm/dl | 3.5 - 5.2 |
|--------------------------------------|-----|-------|-----------|

|                                |      |       |           |
|--------------------------------|------|-------|-----------|
| Globulin<br>(Serum/Calculated) | 2.10 | gm/dL | 2.3 - 3.6 |
|--------------------------------|------|-------|-----------|

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|----------------------|-----------------------|-------------|--------------------------------------|

|                                   |      |  |           |
|-----------------------------------|------|--|-----------|
| A : G RATIO<br>(Serum/Calculated) | 2.10 |  | 1.1 - 2.2 |
|-----------------------------------|------|--|-----------|

**INTERPRETATION:**Enclosure : Graph

|  |    |     |      |
|--|----|-----|------|
| GGT(Gamma Glutamyl Transpeptidase)<br>(Serum/IFCC / Kinetic) | 17 | U/L | < 55 |
|--|----|-----|------|

**Lipid Profile**

|   |     |       |  |
|---|-----|-------|--|
| Cholesterol Total<br>(Serum/Cholesterol oxidase/Peroxidase) | 159 | mg/dL | Optimal: < 200<br>Borderline: 200 - 239<br>High Risk: >= 240 |
|---|-----|-------|--|

|  |     |       |   |
|--|-----|-------|---|
| Triglycerides<br>(Serum/Glycerol-phosphate oxidase/Peroxidase) | 103 | mg/dL | Optimal: < 150<br>Borderline: 150 - 199<br>High: 200 - 499<br>Very High: >= 500 |
|--|-----|-------|---|

**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<br>(Serum/Immunoinhibition) | 61 | mg/dL | Optimal(Negative Risk Factor): >= 60<br>Borderline: 40 - 59<br>High Risk: < 40 |
|---|----|-------|--|

|                                       |      |       |   |
|---------------------------------------|------|-------|---|
| LDL Cholesterol<br>(Serum/Calculated) | 77.4 | mg/dL | Optimal: < 100<br>Above Optimal: 100 - 129<br>Borderline: 130 - 159<br>High: 160 - 189<br>Very High: >= 190 |
|---------------------------------------|------|-------|---|

|  |      |       |      |
|--|------|-------|------|
| VLDL Cholesterol<br>(Serum/Calculated) | 20.6 | mg/dL | < 30 |
|--|------|-------|------|

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**P.Venkata Pradeep**  
 Lab Manager

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|---|-----------------------|-------------|--|
| Non HDL Cholesterol<br>(Serum/Calculated) | 98.0                  | mg/dL       | Optimal: < 130<br>Above Optimal: 130 - 159<br>Borderline High: 160 - 189<br>High: 190 - 219<br>Very High: >= 220 |

**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<br>(Serum/Calculated) | 2.6 |  | Optimal: < 3.3<br>Low Risk: 3.4 - 4.4<br>Average Risk: 4.5 - 7.1<br>Moderate Risk: 7.2 - 11.0<br>High Risk: > 11.0 |
|---|-----|--|--|

|  |     |  |  |
|--|-----|--|--|
| Triglyceride/HDL Cholesterol Ratio<br>(TG/HDL)<br>(Serum/Calculated) | 1.7 |  | Optimal: < 2.5<br>Mild to moderate risk: 2.5 - 5.0<br>High Risk: > 5.0 |
|--|-----|--|--|

|   |     |  |   |
|---|-----|--|---|
| LDL/HDL Cholesterol Ratio<br>(Serum/Calculated) | 1.3 |  | Optimal: 0.5 - 3.0<br>Borderline: 3.1 - 6.0<br>High Risk: > 6.0 |
|---|-----|--|---|

### Glycosylated Haemoglobin (HbA1c)

|  |     |   |   |
|--|-----|---|---|
| HbA1C<br>(Whole Blood/HPLC-Ion exchange) | 5.4 | % | Normal: 4.5 - 5.6<br>Prediabetes: 5.7 - 6.4<br>Diabetic: >= 6.5 |
|--|-----|---|---|

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

|                                     |        |       |  |
|-------------------------------------|--------|-------|--|
| Mean Blood Glucose<br>(Whole Blood) | 108.28 | mg/dl |  |
|-------------------------------------|--------|-------|--|

### **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 glycemic 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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P. Venkata Pradeep  
Lab Manager

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|---|-----------------------|-------------|---|
| Prostate specific antigen - Total(PSA)<br>(Serum/Manometric method) | 0.479                 | ng/mL       | Normal: 0.0 - 4.0<br>Inflammatory & Non Malignant conditions of Prostate & genitourinary system: 4.01 - 10.0<br>Suspicious of Malignant disease of Prostate: > 10.0 |

**INTERPRETATION:** Analytical sensitivity: 0.008 - 100 ng/mL

PSA is a tumor marker for screening of prostate cancer. Increased levels of PSA are associated with prostate cancer and benign conditions like bacterial infection, inflammation of prostate gland and benign hypertrophy of prostate/ benign prostatic hyperplasia (BPH).

Transient elevation of PSA levels are seen following digital rectal examination, rigorous physical activity like bicycle riding, ejaculation within 24 hours.

PSA levels tend to increase in all men as they age.

Clinical Utility of PSA:

• In the early detection of Prostate cancer.

• As an aid in discriminating between Prostate cancer and Benign Prostatic disease.

• To detect cancer recurrence or disease progression.

**THYROID PROFILE / TFT**

|   |       |       |            |
|---|-------|-------|------------|
| T3 (Triiodothyronine) - Total<br>(Serum/Chemiluminescent Immunometric Assay (CLIA)) | 0.969 | ng/ml | 0.7 - 2.04 |
|---|-------|-------|------------|

**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 (Thyroxine) - Total<br>(Serum/Chemiluminescent Immunometric Assay (CLIA)) | 4.673 | 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)<br>(Serum/Chemiluminescence) | 2.166 | 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&amplt;0.03  $\mu$ IU/mL need to be clinically correlated due to presence of rare TSH variant in some individuals.

**Urine Analysis - Routine**

Others NIL  
(Urine/Microscopy)

**INTERPRETATION:**Note: Done with Automated Urine Analyser & microscopy

**Physical Examination(Urine Routine)**

Colour PALE YELLOW Yellow to Amber  
(Urine/Physical examination)

Appearance Clear Clear  
(Urine/Physical examination)

**Chemical Examination(Urine Routine)**

Protein Negative Negative  
(Urine/Dipstick-Error of indicator/  
Sulphosalicylic acid method )

Glucose Negative Negative  
(Urine/Dip Stick Method / Glucose Oxidase -  
Peroxidase / Benedict ʼs semi quantitative  
method.)

**Microscopic Examination(Urine Routine)**

Pus Cells 3-4 /hpf 0 - 5  
(Urine/Microscopy exam of urine sediment)

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| Epithelial Cells<br>(Urine/Microscopy exam of urine sediment) | 1-2                   | /hpf        | NIL                                  |
| RBCs<br>(Urine/Microscopy exam of urine sediment)             | NIL                   | /hpf        | 0 - 5                                |

**STOOL ANALYSIS - ROUTINE**

**PHYSICAL EXAMINATION**

|   |                  |             |
|---|------------------|-------------|
| Colour<br>(Stool/Physical examination)      | Brown            | Brown       |
| Consistency<br>(Stool/Physical examination) | <b>SEMI SOFT</b> | Well Formed |
| Mucus<br>(Stool)                            | Absent           | Absent      |
| Blood<br>(Stool)                            | Absent           | Absent      |

**CHEMICAL EXAMINATION**

|   |          |          |
|---|----------|----------|
| Reducing Substances<br>(Stool/Benedict's) | Negative | Negative |
| Reaction<br>(Stool)                       | Acidic   | Acidic   |

**MICROSCOPIC EXAMINATION**  
**(STOOL COMPLETE)**

|                         |     |      |
|-------------------------|-----|------|
| Ova<br>(Stool)          | NIL |      |
| Cysts<br>(Stool)        | NIL |      |
| Trophozoites<br>(Stool) | NIL |      |
| Pus Cells<br>(Stool)    | 0-2 | /hpf |



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|----------------------|-----------------------|-------------|--------------------------------------|
| RBCs<br>(Stool)      | NIL                   | /hpf        |                                      |
| Others<br>(Stool)    | NIL                   |             |                                      |

A stylized signature of P.V. Pradeep in blue and pink, with the text "P.V. Pradeep" above it and "P. Venkata Pradeep Lab Manager" below it.

**P.V. Pradeep**  
P. Venkata Pradeep  
Lab Manager

VERIFIED BY

A stylized signature of Dr. Tanusha in blue and pink, with the text "Dr. Tanusha" above it and "Consultant Pathologist Reg No- 070707" below it.

**Dr. Tanusha**  
Consultant Pathologist  
Reg No- 070707

APPROVED BY

-- End of Report --

|              |                   |            |                    |
|--------------|-------------------|------------|--------------------|
| Name         | VARANASI RAVINDRA | ID         | MED111393594       |
| Age & Gender | 45Y/M             | Visit Date | Nov 26 2022 7:44AM |
| Ref Doctor   | MediWheel         |            |                    |

### ULTRASOUND WHOLE ABDOMEN

- Liver : Normal in size (14.4 cm) with regular outlines and normal echopattern.  
There is no evidence of IHBR / EHBR dilatation seen.  
No focal space occupying lesions seen.  
CBD is normal. PV normal.
- Gall Bladder : Normal in volume and wall thickness.  
No e/o intraluminal calculi seen.
- Pancreas : Head, body and tail are identified with normal echopattern and smooth outlines.
- Spleen : Measured 7.4 cm, in size with normal echotexture.
- Right kidney : Measured 8.7 x 4.5 cm in size.
- Left kidney : Measured 9.0 x 4.6 cm in size.  
Both kidneys are normal in size, position, with well preserved cortico medullary differentiation and normal pelvicalyceal anatomy.  
No e/o calculi / space occupying lesion seen.  
No e/o suprarenal / retroperitoneal masses noted.
- Urinary bladder : Normal in volume and wall thickness.  
No e/o intraluminal calculi / masses seen.
- Prostate : Measured 3.0 x 2.9 x 3.1 cm in size (Vol : 14.8cc) with normal echotexture

No e/o ascites / pleural effusion seen.

No e/o detectable bowel pathology seen.

**Defect of size approximately 15 mm is noted in umbilical region with herniation of omental fat.**

### IMPRESSION :

|              |                   |            |                    |
|--------------|-------------------|------------|--------------------|
| Name         | VARANASI RAVINDRA | ID         | MED111393594       |
| Age & Gender | 45Y/M             | Visit Date | Nov 26 2022 7:44AM |
| Ref Doctor   | MediWheel         |            |                    |

- **Umbilical Omentocele.**

*- For clinical correlation.*



**Dr. Jahnavi Barla MD (RD), DGO.**  
Consultant Radiologist