

**Laboratory Investigation Report**

|              |                      |
|--------------|----------------------|
| Patient Name | Centre               |
| Age/Gender   | OP/IP No/UHID        |
| MaxID/Lab ID | Collection Date/Time |
| Ref Doctor   | Reporting Date/Time  |

**Clinical Biochemistry**
**Max Care Health Check 3**

**Fasting Blood Sugar (Glucose) , (FBS), Fluoride Plasma**

| Date              | 16/May/2025 | 13/Feb/25 | 25/Oct/24 | Unit  | Bio Ref Interval |
|-------------------|-------------|-----------|-----------|-------|------------------|
|                   | 07:10AM     | 09:34AM   | 08:01AM   |       |                  |
| Glucose (Fasting) | 79          | 82.0      | 84        | mg/dL | 74 - 99          |

**Interpretation** A fasting blood sugar level from 100 to 125 mg/dL is considered prediabetes Elevated blood glucose levels are seen in:

Diabetes mellitus, Cushing's disease, Acromegaly

Stress, such as from surgery or trauma. Certain medications, especially [corticosteroids](#)

Decreased blood glucose levels can be due to drug induced, [hypothyroidism](#), [addison](#) (adrenal insufficiency)

**HbA1c (Glycated/ Glycosylated Hemoglobin) Test, EDTA**

HPLC

| Date   | 16/May/2025 | 13/Feb/25 | 25/Oct/24 | Unit     | Bio Ref Interval |
|--|-------------|-----------|-----------|----------|------------------|
|  | 07:10AM     | 09:34AM   | 08:01AM   |          |                  |
| Glycosylated Haemoglobin(Hb A1c)                 | 5.50        | 5.42      | 5.50      | %        | < 5.7            |
| Glycosylated Haemoglobin(Hb A1c) IFCC            | 36.6        | 35.72     | 36.6      | mmol/mol | < 39.0           |
| Average Glucose Value For the Last 3 Months      | 111.15      | 108.85    | 111.15    | mg/dL    |                  |
| Average Glucose Value For the Last 3 Months IFCC | 6.16        | 6.03      | 6.16      | mmol/L   |                  |

**Interpretation** The following HbA1c ranges recommended by the American Diabetes Association(ADA) may be used as an aid in the diagnosis of diabetes mellitus.

| HbA1C(NGSP %) | HbA1C(IFCC mmol/mol) | Suggested Diagnosis |
|---------------|----------------------|---------------------|
| ≥ 6.5         | ≥ 48                 | Diabetic            |
| 5.7 - 6.4     | 39 - 47              | Pre- Diabetic       |
| < 5.7         | < 39                 | Non - Diabetic      |

HbA1C provides a useful index of average glycaemia over the preceding 6-8 weeks.

It is suggested that HbA1c is measured every 6 months in stable patients, every 3 months in patients with unstable metabolic control and every month in pregnancy. Increased Glycated hemoglobin is a reflection of Hyperglycemia.

Kindly correlate with clinical findings

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

  
**Dr. Mini Singhal M.D.**  
 Principal Consultant Pathology

  
**Dr. Shalini Shah M.D.**  
 Attending Consultant Pathology

Test Performed at : 1108 - Max Hospital Dehradun, Near Indian Oil Petrol Pump, Malsi, Mussoorie Diversion Road, Dehradun

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**Immunoassay**
**Max Care Health Check 3**

**Total-Thyroid Profile ( T3T4 & TSH)\***

| Date                     | 16/May/2025<br>07:10AM | Unit   | Bio Ref<br>Interval |
|--------------------------|------------------------|--------|---------------------|
| T3 (Total)<br>CLIA       | 1.31                   | ng/mL  | 0.87-1.78           |
| T4 (Total)<br>CLIA       | 8.77                   | µg/dL  | 5.93 - 13.29        |
| TSH<br>Chemiluminescence | 3.157                  | uIU/ml | 0.34-5.6            |

**Comment**

| Parameter | Unit   | Cord Blood | Adult       | 1st Trimester | 2nd Trimester | 3rd Trimester |
|-----------|--------|------------|-------------|---------------|---------------|---------------|
| TSH       | uIU/ml | 2.3 - 13.2 | 0.38 - 5.33 | 0.1 - 2.5     | 0.2 - 3.0     | 0.3 - 3.0     |

Increased in primary Hypothyroidism.  
Decreased in primary Hyperthyroidism

Total Thyroid Profile : (Thyroid Function Test, TFT)

T3 (Total), Triiodothyronine

Increase in Hyperthyroidism, and T3 toxicosis,

Decreased in hypothyroidism, states with decreased TBG, and acute and subacute non thyroidal illness

T4(Total) Thyroxine

Increased in Hyperthyroidism, states with increased TBG, Thyrotoxicosis

Decreased in Hyperthyroidism, states with decreased TBG and Strenuous exercise

TSH, Serum : Thyrotropin(Thyroid Stimulating Hormone)

Increased in primary Hypothyroidism.

Decreased in primary Hyperthyroidism.

**Note :** TSH levels are subject to circadian variation, reaching peak levels between 2 – 4 am

and at a minimum between 6 – 10 pm. The variation is of the order of 50% - 206 %, hence

time of the day has influence on the measured serum TSH concentrations.

TSH assay is strandized to the 3rd generation for human TSH.

The Cyclical variations may be quite large; therefore the timing of specimen collection must be strictly controlled.

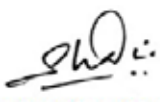
Advise : Kindly do Thyroid Profile/TSH in morning hours only.

**Comment: TSH - Ultrasensitive**

Kindly correlate with clinical findings

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**Clinical Biochemistry**
**Max Care Health Check 3**

**Lipid Profile, Serum**

| Date  | 16/May/2025<br>07:10AM | 13/Feb/25<br>09:34AM | 25/Oct/24<br>08:01AM | Unit  | Bio Ref Interval |
|---|------------------------|----------------------|----------------------|-------|------------------|
| Cholesterol<br>Cholesterol oxidase, esterase,<br>peroxidase | 204                    | 166                  | 220                  | mg/dl | < 200            |
| HDL Cholesterol<br>Homogeneous Assay                        | 58                     | 58                   | 66                   | mg/dl | > 40             |
| LDL Cholesterol<br>Homogeneous Assay                        | 128                    | 96                   | 140                  | mg/dl | < 100            |
| Triglyceride<br>Enzymatic, end point                        | 273.0                  | 64.0                 | 241.0                | mg/dl | < 150            |
| VLDL Cholesterol<br>Calculated                              | 54.6                   | 12.8                 | 48.2                 | mg/dl | < 30             |
| Total Cholesterol/HDL Ratio<br>Calculated                   | 3.5                    | 2.9                  | 3.3                  | ..    | 0.0-4.9          |
| Non-HDL Cholesterol<br>Calculated                           | 146.00                 | 108.00               | 154.00               | mg/dL | < 130            |
| HDL/LDL<br>Calculated                                       | 0.45                   | 0.60                 | 0.47                 | Ratio | 0.3 - 0.4        |

**Interpretation**

|                   |  |              |   |
|-------------------|--|--------------|---|
| Total Cholesterol | Desirable: < 200 mg/dL<br>Borderline High: 200-239 mg/dL<br>High ≥ 240 mg/dL | LDL-C        | Optimal: < 100 mg/dL<br>Near Optimal/ Above Optimal: 100-129 mg/dL<br>Borderline High: 130-159 mg/dL<br>High: 160-189 mg/dL<br>Very High: ≥ 190 mg/dL |
| HDL-C             | Low HDL: < 40 mg/dL<br>High HDL: ≥ 60 mg/dL                                  | Triglyceride | Normal: <150 mg/dL<br>Borderline High: 150-199 mg/dL<br>High: 200-499 mg/dL<br>Very High: ≥ 500 mg/dL   |

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MC-6680

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**Clinical Biochemistry**
**Max Care Health Check 3**

**Liver Function Test (LFT), Serum**

| Date  | 16/May/2025<br>07:10AM | 13/Feb/25<br>09:34AM | 25/Oct/24<br>08:01AM | 30/Mar/24<br>09:57AM | Unit  | Bio Ref Interval |
|---|------------------------|----------------------|----------------------|----------------------|-------|------------------|
| Total Protein<br>Biuret                                       | 6.99                   | 7.70                 | 6.51                 | 7.10                 | g/dl  | 6.5 - 8.1        |
| Albumin<br>BCP  | 4.6                    | 4.8                  | 4.2                  | 4.6                  | g/dl  | 3.5 - 5.0        |
| Globulin<br>Calculated  | 2.4                    | 2.9                  | 2.3                  | 2.5                  | g/dl  | 2.3 - 3.5        |
| A.G. ratio<br>Calculated                                      | 1.9                    | 1.7                  | 1.9                  | 1.8                  |       | 1.2 - 1.5        |
| Bilirubin (Total)<br>Diazo                                    | 0.42                   | 1.37                 | 0.75                 | 1.32                 | mg/dl | 0.3 - 1.2        |
| Bilirubin (Direct)<br>Diazo                                   | 0.09                   | 0.33                 | 0.13                 | 0.23                 | mg/dl | 0.1 - 0.5        |
| Bilirubin (Indirect)<br>Calculated                            | 0.33                   | 1.04                 | 0.62                 | 1.09                 | mg/dL | 0.1 - 1.0        |
| SGOT- Aspartate<br>Transaminase (AST)<br>UV without P5P       | 30                     | 41                   | 37                   | 32                   | U/L   | < 50             |
| SGPT- Alanine<br>Transaminase (ALT)<br>Kinetic Rate using LDH | 26                     | 39                   | 34                   | 31                   | U/L   | 17 - 63          |
| AST/ALT Ratio<br>Calculated                                   | 1.15                   | 1.05                 | 1.09                 | 1.03                 | Ratio |                  |
| Alkaline Phosphatase<br>PNP AMP Buffer                        | 79                     | 79                   | 72                   | 69                   | U/L   | 32 - 91          |
| GGTP (Gamma GT), Serum<br>Enzymatic Rate                      | 31.0                   | 113.0                | 59.0                 | 56.0                 | U/L   | 7 - 50           |

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MC-6680

## Laboratory Investigation Report

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### Clinical Biochemistry Max Care Health Check 3



#### Kidney Function Test (KFT) Profile

| Date   | 16/May/2025<br>07:10AM | Unit                          | Bio Ref<br>Interval |
|--|------------------------|-------------------------------|---------------------|
| Urea<br>Enzymatic Rate (Urease)                | 23.2                   | mg/dL                         | 17.12 - 55.64       |
| Blood Urea Nitrogen<br>Enzymatic Rate (Urease) | 10.84                  | mg/dl                         | 8 - 26              |
| Creatinine<br>Alkaline picrate kinetic         | 0.91                   | mg/dl                         | 0.61 - 1.24         |
| eGFR by MDRD<br>MDRD                           | 90.60                  | ml/min/1.73<br>m <sup>2</sup> |                     |
| eGFR by CKD EPI 2021                           | 105.98                 |                               |                     |
| Bun/Creatinine Ratio<br>Calculated             | 11.91                  | Ratio                         | 12:1 - 20:1         |
| Uric Acid<br>Uricase, Colorimetric             | 6.39                   | mg/dl                         | 3.5 - 7.2           |
| Calcium (Total)<br>Arsenazo III                | 9.02                   | mg/dl                         | 8.9 - 10.3          |
| Sodium<br>ISE Direct                           | 143.0                  | mmol/L                        | 136 - 144           |
| Potassium<br>ISE Direct                        | 3.7                    | mmol/L                        | 3.6 - 5.1           |
| Chloride<br>ISE Direct                         | 105                    | mmol/l                        | 101-111             |

#### Ref. Range

eGFR - Estimated Glomerular Filtration Rate is calculated by MDRD equation which is most accurate for GFRs  $\leq 60$  ml / min / 1.73 m<sup>2</sup>. MDRD equation is **used for adult population only**.

| Category | Ref Interval (ml / min / 1.73 m <sup>2</sup> ) | Condition                       |
|----------|--|---------------------------------|
| G1       | $\geq 90$                                      | Normal or High                  |
| G2       | 60 - 89  | Mildly Decreased                |
| G3a      | 45 - 59  | Mildly to Moderately Decreased  |
| G3b      | 30 - 44  | Moderately to Severly Decreased |
| G4       | 15 - 29  | Severly Decreased               |
| G5       | < 15   | Kidney failure                  |

Kindly correlate with clinical findings

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

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**Clinical Biochemistry****Max Care Health Check 3**

SIN No:b2b7567296

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Principal Consultant Pathology**Dr. Shalini Shah M.D.**  
Attending Consultant Pathology

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MC-6680

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**Hematology**
**Max Care Health Check 3**

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

| Date                        | 16/May/2025 | 30/Mar/24 | Unit    | Bio Ref Interval |
|-----------------------------|-------------|-----------|---------|------------------|
|                             | 07:10AM     | 09:57AM   |         |                  |
| Haemoglobin                 | 17.5        | 16.6      | g/dl    | 13.0 - 17.0      |
| Modified cyanmethemoglobin  |             |           |         |                  |
| Packed Cell, Volume         | 55.7        | 49.6      | %       | 40-50            |
| Calculated                  |             |           |         |                  |
| Total Leucocyte Count (TLC) | 7.1         | 9.4       | 10~9/L  | 4.0-10.0         |
| Electrical Impedance        |             |           |         |                  |
| RBC Count                   | 5.65        | 5.45      | 10~12/L | 4.5-5.5          |
| Electrical Impedance        |             |           |         |                  |
| MCV                         | 98.6        | 91.0      | fL      | 83-101           |
| Electrical Impedance        |             |           |         |                  |
| MCH                         | 31.1        | 30.5      | pg      | 27-32            |
| Calculated                  |             |           |         |                  |
| MCHC                        | 31.5        | 33.5      | g/dl    | 31.5-34.5        |
| Calculated                  |             |           |         |                  |
| Platelet Count              | 200         | 190       | 10~9/L  | 150-410          |
| Electrical Impedance        |             |           |         |                  |
| MPV                         | 10.5        | 9.3       | fl      | 7.8-11.2         |
| Calculated                  |             |           |         |                  |
| RDW                         | 15.2        | 13.9      | %       | 11.5-14.5        |
| Calculated                  |             |           |         |                  |

**Differential Cell Count**

VCS / Light Microscopy

|             |      |      |   |       |
|-------------|------|------|---|-------|
| Neutrophils | 43.8 | 80.5 | % | 40-80 |
| Lymphocytes | 44.0 | 10.3 | % | 20-40 |
| Monocytes   | 7.0  | 6.6  | % | 2-10  |
| Eosinophils | 4.3  | 2.3  | % | 1-6   |
| Basophils   | 0.9  | 0.3  | % | 0-2   |

**Absolute Leukocyte Count**

Calculated from TLC &amp; DLC

|                           |       |       |        |          |
|---------------------------|-------|-------|--------|----------|
| Absolute Neutrophil Count | 3.11  | 7.57  | 10~9/L | 2.0-7.0  |
| Absolute Lymphocyte Count | 3.1   | 1.0   | 10~9/L | 1.0-3.0  |
| Absolute Monocyte Count   | 0.5   | 0.62  | 10~9/L | 0.2-1.0  |
| Absolute Eosinophil Count | 0.31  | 0.22  | 10~9/L | 0.02-0.5 |
| Absolute Basophil Count   | 0.060 | 0.030 | 10~9/L | 0.02-0.1 |

Kindly correlate with clinical findings

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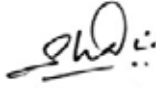
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**Hematology****Max Care Health Check 3**

SIN No:b2b7567296



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|              |                      |
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| Patient Name | Centre               |
| Age/Gender   | OP/IP No/UHID        |
| MaxID/Lab ID | Collection Date/Time |
| Ref Doctor   | Reporting Date/Time  |

**Clinical Biochemistry**
**Max Care Health Check 3**

**Inorganic Phosphorus, Serum**

| Date              | 16/May/2025 | 13/Feb/25 | 25/Oct/24 | Unit  | Bio Ref Interval |
|-------------------|-------------|-----------|-----------|-------|------------------|
|                   | 07:10AM     | 09:34AM   | 08:01AM   |       |                  |
| Phosphorus(inorg) | 4.00        | 3.6       | 7.1       | mg/dl | 2.4 - 4.7        |
| Phospho-Molybdate |             |           |           |       |                  |

**Interpretation**

Increased in Osteolytic metastatic bone tumors, myelogenous leukemia, sarcoidosis, milk-alkali syndrome, vitamin D intoxication, healing fractures, renal failure, hyperparathyroidism, PTH resistance (Pseudohypoparathyroidism) and diabetes mellitus with ketosis.

Decreased in Osteomalacia, steatorrhea, renal tubular acidosis, growth hormone deficiency, acute alcoholism, gram-negative bacterial septicemia, hypokalemia, familial hypophosphatemic rickets, Vitamin D deficiency, severe malnutrition, malabsorption, secondary diarrhea, vomiting, nasogastric suction, primary hyperthyroidism and PTH producing tumors.

**Laboratory Investigation Report**


|              |                      |
|--------------|----------------------|
| Patient Name | Centre               |
| Age/Gender   | OP/IP No/UHID        |
| MaxID/Lab ID | Collection Date/Time |
| Ref Doctor   | Reporting Date/Time  |

**Clinical Biochemistry**
**Max Care Health Check 3**


| Test Name                  | Result | Unit  | Bio Ref Interval |
|----------------------------|--------|-------|------------------|
| <b>Iron, Serum*, Serum</b> |        |       |                  |
| Iron                       | 91.7   | µg/dL | 45 - 182         |

Kindly correlate with clinical findings

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



**Dr. Mini Singhal M.D.**  
Principal Consultant Pathology



**Dr. Shalini Shah M.D.**  
Attending Consultant Pathology

**Laboratory Investigation Report**

|              |                      |
|--------------|----------------------|
| Patient Name | Centre               |
| Age/Gender   | OP/IP No/UHID        |
| MaxID/Lab ID | Collection Date/Time |
| Ref Doctor   | Reporting Date/Time  |

**Immunoassay**
**Max Care Health Check 3**

**Vitamin B12 (Vit- B12) (Cyanocobalamin)\***

| Date                | 16/May/2025<br>07:10AM | Unit  | Bio Ref Interval |
|---------------------|------------------------|-------|------------------|
| Vitamin B12<br>CLIA | 354                    | pg/mL | 222 - 1439       |

**Comment Note:- Vitamin B12 (Cobalamin)**

Vitamin B12 is tested for patients with GIT disease, Neurological disease, psychiatric disturbances, malnutrition, alcohol abuse.

Increased in chronic renal failure, severe CHF.

Decreased in megaloblastic anemia.

**Advise:** CBC, peripheral smear, serum folate levels, intrinsic factor antibodies (IFA), bone marrow examination, if Vit B12 deficient.

**Vitamin D 25 - Hydroxy Test (Vit. D3)\***

| Date                          | 16/May/2025<br>07:10AM | Unit  | Bio Ref Interval |
|-------------------------------|------------------------|-------|------------------|
| 25 Hydroxy, Vitamin D<br>CLIA | 39.68                  | ng/mL | 30-100           |

**Ref Range**

| Vitamin D Status   | 25 (OH) Vitamin D Concentration Range (ng/ml) |
|--------------------|---|
| Sufficiency        | 30-100  |
| Insufficiency      | 20-29   |
| Deficiency         | <20   |
| Potential Toxicity | >100  |

**Interpretation**

Vitamin D toxicity can be due to

1. Use of high doses of vitamin D for prophylaxis or treatment
2. Taking vitamin D supplements with existing health problems such as kidney disease, liver disease, tuberculosis and hyperparathyroidism

Vitamin D deficiency can be due to:

1. Inadequate exposure to sunlight,
2. Diet deficient in vitamin D
3. Malabsorption

**Advise:** Serum calcium, phosphorus and PTH

Kindly correlate with clinical findings

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

  
**Dr. Mini Singhal M.D.**  
 Principal Consultant Pathology

  
**Dr. Shalini Shah M.D.**  
 Attending Consultant Pathology

Test Performed at : 1108 - Max Hospital Dehradun, Near Indian Oil Petrol Pump, Malsi, Mussoorie Diversion Road, Dehradun

Booking Centre : 3438 - Max Lab Dehradun Road Rishikesh, 56, Dehradun Road, Rishikesh, 9027259696

Max Super Speciality Hospital, Saket (West Block), 6, Press Enclave Road, Saket, New Delhi - 110017, Phone: +91-11-6611 5050

The authenticity of the report can be verified by scanning the Q R Code on top of the page

Helpline No. 7982 100 200 | [www.maxlab.co.in](http://www.maxlab.co.in) | [feedback@maxlab.co.in](mailto:feedback@maxlab.co.in)

**Conditions of Reporting:** 1. The tests are carried out in the lab with the presumption that the specimen belongs to the patient name as identified in the bill/test request form. 2. The test results relate specifically to the sample received in the lab and are presumed to have been generated and transported per specific instructions given by the physicians/laboratory. 3. The reported results are for the information and interpretation by the referring doctor only. 4. Some tests are referred to other laboratories to provide a wider test menu to the customer. 5. Max Healthcare shall in no event be liable for accidental damages loss, or destruction of specimen which is not attributable to any direct and mala fide act or omission of Max Healthcare or its employees. Liability of Max Healthcare for deficiency of services, or other errors and omissions shall be limited to fee paid by the patient for the relevant laboratory services.