

**Dr. Vinay Chopra**  
 MD (Pathology & Microbiology)  
 Chairman & Consultant Pathologist

**Dr. Yugam Chopra**  
 MD (Pathology)  
 CEO & Consultant Pathologist

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mrs. RAJINDER KAUR                   | <b>PATIENT ID</b>        | : 1551709              |
| <b>AGE/ GENDER</b>    | : 78 YRS/FEMALE                        | <b>REG. NO./LAB NO.</b>  | : 012407170027         |
| <b>COLLECTED BY</b>   | : SURJESH                              | <b>REGISTRATION DATE</b> | : 17/Jul/2024 10:32 AM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 17/Jul/2024 10:45AM  |
| <b>BARCODE NO.</b>    | : 01513303                             | <b>REPORTING DATE</b>    | : 17/Jul/2024 11:09AM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

**HAEMATOLOGY**

**HAEMOGLOBIN (HB)**

|  |                  |       |             |
|--|------------------|-------|-------------|
| <b>HAEMOGLOBIN (HB)</b><br>by CALORIMETRIC | 8.6 <sup>L</sup> | gm/dL | 12.0 - 16.0 |
|--|------------------|-------|-------------|

**INTERPRETATION:-**

Hemoglobin is the protein molecule in red blood cells that carries oxygen from the lungs to the body's tissues and returns carbon dioxide from the tissues back to the lungs.

A low hemoglobin level is referred to as ANEMIA or low red blood count.

**ANEMIA ( DECREASED HAEMOGLOBIN):**


- 1) Loss of blood (traumatic injury, surgery, bleeding, colon cancer or stomach ulcer)
- 2) Nutritional deficiency (iron, vitamin B12, folate)
- 3) Bone marrow problems (replacement of bone marrow by cancer)
- 4) Suppression by red blood cell synthesis by chemotherapy drugs
- 5) Kidney failure
- 6) Abnormal hemoglobin structure (sickle cell anemia or thalassemia).


**POLYCYTHEMIA (INCREASED HAEMOGLOBIN):**

- 1) People in higher altitudes (Physiological)
- 2) Smoking (Secondary Polycythemia)
- 3) Dehydration produces a falsely rise in hemoglobin due to increased haemoconcentration
- 4) Advanced lung disease (for example, emphysema)
- 5) Certain tumors
- 6) A disorder of the bone marrow known as polycythemia rubra vera,
- 7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available to the body by chemically raising the production of red blood cells).

**NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD**



  
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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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| <b>BARCODE NO.</b>    | : 01513303                             | <b>REPORTING DATE</b>    | : 17/Jul/2024 11:56AM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
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**CLINICAL CHEMISTRY/BIOCHEMISTRY**

**GLUCOSE FASTING (F)**

|  |                           |              |  |
|--|---------------------------|--------------|--|
| <b>GLUCOSE FASTING (F): PLASMA</b><br><i>by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD)</i> | <b>168.38<sup>H</sup></b> | <b>mg/dL</b> | <b>NORMAL: &lt; 100.0</b><br><b>PREDIABETIC: 100.0 - 125.0</b><br><b>DIABETIC: &gt; OR = 126.0</b> |
|--|---------------------------|--------------|--|

**INTERPRETATION**

**IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:**

1. A fasting plasma glucose level below 100 mg/dl is considered normal.
2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.

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



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