

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

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

| | | | |
|-----------------------|--|--------------------------|------------------------|
| NAME | : Mr. GOVINDERPAL SINGH | PATIENT ID | : 1822706 |
| AGE/ GENDER | : 66 YRS/MALE | REG. NO./LAB NO. | : 012504080069 |
| COLLECTED BY | : | REGISTRATION DATE | : 08/Apr/2025 02:12 PM |
| REFERRED BY | : | COLLECTION DATE | : 08/Apr/2025 02:13PM |
| BARCODE NO. | : 01528622 | REPORTING DATE | : 08/Apr/2025 02:43PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | | |

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

HAEMATOLOGY

HAEMOGLOBIN (HB)

| | | | |
|------------------|-------------------|-------|-------------|
| HAEMOGLOBIN (HB) | 10.8 ^L | gm/dL | 12.0 - 17.0 |
|------------------|-------------------|-------|-------------|

by CALORIMETRIC

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 erythropoietin (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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CLINICAL CHEMISTRY/BIOCHEMISTRY
CREATININE

| | | | |
|---|-------------------------|-------|-------------|
| CREATININE: SERUM <i>by ENZYMATIC, SPECTROPHOTOMETRY</i> | 2.03^H | mg/dL | 0.40 - 1.40 |
|---|-------------------------|-------|-------------|




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POTASSIUM

| | | | |
|--|------|--------|-------------|
| POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | 3.94 | mmol/L | 3.50 - 5.00 |
|--|------|--------|-------------|

INTERPRETATION:-

POTASSIUM:

Potassium is the major cation in the intracellular fluid. 90% of potassium is concentrated within the cells. When cells are damaged, potassium is released in the blood.


HYPOKALEMIA (LOW POTASSIUM LEVELS):-


- 1.Diarrhoea, vomiting & malabsorption.
2. Severe Burns.
- 3.Increased Secretions of Aldosterone

HYPERKALEMIA (INCREASED POTASSIUM LEVELS):-

- 1.Oliguria
- 2.Renal failure or Shock
- 3.Respiratory acidosis
- 4.Hemolysis of blood




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CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION

| | | | |
|--|-------------|----|---------------|
| QUANTITY RECIEVED | 10 | ml | |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| COLOUR | PALE YELLOW | | PALE YELLOW |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| TRANSPARANCY | HAZY | | CLEAR |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| SPECIFIC GRAVITY | 1.02 | | 1.002 - 1.030 |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |

CHEMICAL EXAMINATION

| | | | |
|---|----------------|-------|----------------|
| REACTION | ACIDIC | | |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| PROTEIN | 3+ | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| SUGAR | 1+ | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| pH | 6 | | 5.0 - 7.5 |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| BILIRUBIN | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| NITRITE | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. | | | |
| UROBILINOGEN | Normal | EU/dL | 0.2 - 1.0 |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| KETONE BODIES | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| BLOOD | TRACE | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |
| ASCORBIC ACID | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | | |

MICROSCOPIC EXAMINATION





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| RED BLOOD CELLS (RBCs) <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | 4-5 | /HPF | 0 - 3 |
| PUS CELLS <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | 1-3 | /HPF | 0 - 5 |
| EPITHELIAL CELLS <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | 0-2 | /HPF | ABSENT |
| CRYSTALS <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| CASTS <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| BACTERIA <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| OTHERS <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | NEGATIVE (-ve) | | NEGATIVE (-ve) |
| TRICHOMONAS VAGINALIS (PROTOZOA) <i>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT</i> | ABSENT | | ABSENT |

RECHECKED

*** End Of Report ***




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