

Dr. Vinay Chopra
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 Chairman & Consultant Pathologist

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

| | | | |
|-----------------------|--|--------------------------|------------------------|
| NAME | : Mr. DEEP CHAND | PATIENT ID | : 1748850 |
| AGE/ GENDER | : 43 YRS/MALE | REG. NO./LAB NO. | : 012502070042 |
| COLLECTED BY | : | REGISTRATION DATE | : 07/Feb/2025 02:35 PM |
| REFERRED BY | : | COLLECTION DATE | : 07/Feb/2025 02:37PM |
| BARCODE NO. | : 01525105 | REPORTING DATE | : 07/Feb/2025 03:18PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | | |

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

HAEMATOTOLOGY

COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

| | | | |
|---|-------------------|--------------|--|
| HAEMOGLOBIN (HB) <i>by CALORIMETRIC</i> | 9.3 ^L | gm/dL | 12.0 - 17.0 |
| RED BLOOD CELL (RBC) COUNT <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 3.99 | Millions/cmm | 3.50 - 5.00 |
| PACKED CELL VOLUME (PCV) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 29.8 ^L | % | 40.0 - 54.0 |
| MEAN CORPUSCULAR VOLUME (MCV) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 74.6 ^L | fL | 80.0 - 100.0 |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 23.2 ^L | pg | 27.0 - 34.0 |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 31.1 ^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUTION WIDTH (RDW-CV) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 14.4 | % | 11.00 - 16.00 |
| RED CELL DISTRIBUTION WIDTH (RDW-SD) <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | 40 | fL | 35.0 - 56.0 |
| MENTZERS INDEX <i>by CALCULATED</i> | 18.7 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INDEX <i>by CALCULATED</i> | 26.8 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0 |

WHITE BLOOD CELLS (WBCS)

| | | | |
|--|------|------|--------------|
| TOTAL LEUCOCYTE COUNT (TLC) <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 9260 | /cmm | 4000 - 11000 |
| NUCLEATED RED BLOOD CELLS (nRBCS) <i>by AUTOMATED 6 PART HEMATOLOGY ANALYZER</i> | NIL | | 0.00 - 20.00 |
| NUCLEATED RED BLOOD CELLS (nRBCS) % <i>by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER</i> | NIL | % | < 10 % |




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| <u>DIFFERENTIAL LEUCOCYTE COUNT (DLC)</u> | | | |
| NEUTROPHILS <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 60 | % | 50 - 70 |
| LYMPHOCYTES <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 30 | % | 20 - 40 |
| EOSINOPHILS <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 4 | % | 1 - 6 |
| MONOCYTES <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 6 | % | 2 - 12 |
| BASOPHILS <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 0 | % | 0 - 1 |
| <u>ABSOLUTE LEUKOCYTES (WBC) COUNT</u> | | | |
| ABSOLUTE NEUTROPHIL COUNT <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 5556 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPHOCYTE COUNT <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 2778 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOPHIL COUNT <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 370 | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT <i>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY</i> | 556 | /cmm | 80 - 880 |
| <u>PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.</u> | | | |
| PLATELET COUNT (PLT) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 210000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 0.28 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 13 ^H | fL | 6.50 - 12.0 |
| PLATELET LARGE CELL COUNT (P-LCC) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 102000 ^H | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 48.6 ^H | % | 11.0 - 45.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) <i>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE</i> | 16.7 | % | 15.0 - 17.0 |
| NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | | | |




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CLINICAL CHEMISTRY/BIOCHEMISTRY
GLUCOSE RANDOM (R)

| | | | |
|---|--------|-------|--|
| GLUCOSE RANDOM (R): PLASMA by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) | 128.54 | mg/dL | NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0 DIABETIC: > OR = 200.0 |
|---|--------|-------|--|

INTERPRETATION

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A random plasma glucose level below 140 mg/dl is considered normal.
2. A random glucose level between 140 - 200 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 random glucose level of above 200 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.




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IMMUNOPATHOLOGY/SEROLOGY

HEPATITIS C VIRUS (HCV) ANTIBODY: TOTAL

| | | | |
|--|------|------|------------------|
| HEPATITIS C ANTIBODY (HCV) TOTAL: SERUM | 0.17 | S/CO | NEGATIVE: < 1.00 |
| by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) | | | POSITIVE: > 1.00 |

HEPATITIS C ANTIBODY (HCV) TOTAL
 RESULT NON - REACTIVE

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

INTERPRETATION:-

| RESULT (INDEX) | REMARKS |
|----------------|--|
| < 1.00 | NON - REACTIVE/NOT - DETECTED |
| > =1.00 | REACTIVE/ASYMPTOMATIC/INFECTIVE STATE/CARRIER STATE. |

Hepatitis C (HCV) is an RNA virus of Favivirus group transmitted via blood transfusions, transplantation, injection drug abusers, accidental needle punctures in healthcare workers, dialysis patients and rarely from mother to infant. 10 % of new cases show sexual transmission. As compared to HAV & HBV , chronic infection with HCV occurs in 85 % of infected individuals. In high risk population, the predictive value of Anti HCV for HCV infection is > 99% whereas in low risk populations it is only 25 %.

USES:

- Indicator of past or present infection, but does not differentiate between Acute/ Chronic/Resolved Infection.
- Routine screening of low and high prevalence population including blood donors.

NOTE:

- False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.
- False negative results are seen in early Acute infection, Immunosuppression and Immuno— incompetence.
- HCV-RNA PCR recommended in all reactive results to differentiate between past and present infection.




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

ANTI HUMAN IMMUNODEFICIENCY VIRUS (HIV) DUO ULTRA WITH (P-24 ANTIGEN DETECTION)

| | | | |
|--|----------------|------|--------------------------------------|
| HIV 1/2 AND P24 ANTIGEN: SERUM | 0.11 | S/CO | NEGATIVE: < 1.00 POSITIVE: > 1.00 |
| by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) | | | |
| HIV 1/2 AND P24 ANTIGEN RESULT | NON - REACTIVE | | |
| by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) | | | |

INTERPRETATION:-

| RESULT (INDEX) | REMARKS |
|----------------|------------------------|
| < 1.00 | NON - REACTIVE |
| > = 1.00 | PROVISIONALLY REACTIVE |

Non-Reactive result implies that antibodies to HIV 1/ 2 have not been detected in the sample . This means that patient has either not been exposed to HIV 1/ 2 infection or the sample has been tested during the "window phase" i.e. before the development of detectable levels of antibodies. Hence a Non Reactive result does not exclude the possibility of exposure or infection with HIV 1/ 2.

RECOMMENDATIONS:

1. Results to be clinically correlated
2. Rarely falsenegativity/positivity may occur.




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HEPATITIS B SURFACE ANTIGEN (HBsAg) ULTRA

| | | | |
|--------------------------------------|------|------|-----------------|
| HEPATITIS B SURFACE ANTIGEN (HBsAg): | 0.26 | S/CO | NEGATIVE: < 1.0 |
| SERUM | | | POSITIVE: > 1.0 |

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

| | |
|-------------------------------------|--------------|
| HEPATITIS B SURFACE ANTIGEN (HBsAg) | NON REACTIVE |
| RESULT | |

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)

INTERPRETATION:

| RESULT IN INDEX VALUE | REMARKS |
|-----------------------|----------------|
| < 1.30 | NEGATIVE (-ve) |
| >=1.30 | POSITIVE (+ve) |

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symptoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.





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

VDRL

| | | |
|---------------------------------|--------------|--------------|
| VDRL by IMMUNOCHROMATOGRAPHY | NON REACTIVE | NON REACTIVE |
|---------------------------------|--------------|--------------|

INTERPRETATION:

- Does not become positive until 7 - 10 days after appearance of chancre.
- High titer (>1:16) - active disease.**
- Low titer (<1:8) - biological falsepositive test in 90% cases or due to late or late latent syphilis.**
- Treatment of primary syphilis causes progressive decline tonegative VDRL within 2 years.
- Rising titer (4X) indicates relapse, reinfection, or treatment failure and need for retreatment.
- May benonreactive in early primary, late latent, and late syphilis (approx. 25% ofcases).
- Reactive and weakly reactive tests should always be confirmedwith FTA-ABS (fluorescent treponemal antibody absorptiontest).**

SHORTTERM FALSE POSITIVE TEST RESULTS (<6 MONTHS DURATION) MAY OCCURIN:

- Acute viral illnesses (e.g., hepatitis, measles, infectious mononucleosis)
- M. pneumoniae; Chlamydia; Malaria infection.
- Some immunizations
- Pregnancy (rare)

LONGTERM FALSE POSITIVE TEST RESULTS (>6 MONTHS DURATION) MAY OCCUR IN:

- Serious underlying disease e.g., collagen vascular diseases, leprosy ,malignancy.
- Intravenous drug users.
- Rheumatoid arthritis, thyroiditis, AIDS, Sjogren's syndrome.
- <10 % of patients older thanage 70 years.
- Patients taking some anti-hypertensive drugs.

*** End Of Report ***




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