



|   | Dr. Vinay Chopr<br>MD (Pathology & Mic<br>Chairman & Consulta | robiology)        | M                        | am <b>Chopra</b><br>D (Pathology)<br>ant Pathologist |
|---|---|-------------------|--------------------------|--|
| NAME  | : Mr. MANPREET SINGH  |                   |                          |  |
| AGE/ GENDER   | : 26 YRS/MALE   |                   | PATIENT ID               | : 1555006  |
| COLLECTED BY  | :   |                   | REG. NO./LAB NO.         | : 012407200036                                       |
| <b>REFERRED BY</b>                                    | :   |                   | <b>REGISTRATION DATE</b> | : 20/Jul/2024 10:05 AM                               |
| BARCODE NO.   | :01513488   |                   | COLLECTION DATE          | : 20/Jul/2024 10:09AM                                |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB  |                   | <b>REPORTING DATE</b>    | : 20/Jul/2024 10:30AM                                |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, AME                                 | BALA CANTT        | 2                        |  |
| Test Name   |   | Value             | Unit                     | Biological Reference interval                        |
|   | SWAS  | THYA WE           | ELLNESS PANEL: 1.        | 5  |
|   | CON   | /IPLETE BL        | OOD COUNT (CBC)          |  |
| RED BLOOD CELLS (F                                    | RBCS) COUNT AND INDICES                                       |                   |                          |  |
| HAEMOGLOBIN (HB)                                      | )   | 15.4              | gm/dL                    | 12.0 - 17.0  |
| by CALORIMETRIC                                       |   |                   |                          |  |
| RED BLOOD CELL (RE                                    | SC) COUNT<br>FOCUSING, ELECTRICAL IMPEDENCE                   | 5.52 <sup>H</sup> | Million                  | s/cmm 3.50 - 5.00                                    |
| PACKED CELL VOLUN                                     | /IE (PCV)   | 47.1              | %                        | 40.0 - 54.0  |
| -   |   |                   | e e                      | 80.0 100.0   |
| MEAN CORPUSCULA<br>by CALCULATED BY A                 | K VOLUIVIE (IVICV)<br>AUTOMATED HEMATOLOGY ANALYZER           | 85.2              | fL                       | 80.0 - 100.0   |
|   | R HAEMOGLOBIN (MCH)   | 27.8              | pg                       | 27.0 - 34.0  |
|   | UTOMATED HEMATOLOGY ANALYZER                                  | 22.7              | a (di                    | 22.0.24.0  |
|   | R HEMOGLOBIN CONC. (MCHC)                                     | 32.7              | g/dL                     | 32.0 - 36.0  |
| RED CELL DISTRIBUT                                    | TON WIDTH (RDW-CV)  | 13.3              | %                        | 11.00 - 16.00  |
| -   | AUTOMATED HEMATOLOGY ANALYZER                                 | 10 /              |                          |  |
|   | TON WIDTH (RDW-SD)  | 42.6              | fL                       | 35.0 - 56.0  |
| MENTZERS INDEX  |   | 15.43             | RATIO                    | BETA THALASSEMIA TRAIT: < 13                         |
| by CALCULATED   |   |                   |                          | IRON DEFICIENCY ANEMIA: >13                          |
| GREEN & KING INDE                                     | X   | 20.46             | RATIO                    | BETA THALASSEMIA TRAIT: < =                          |
| by CALCULATED   |   |                   |                          | 65.0<br>IRON DEFICIENCY ANEMIA: > 65                 |
| WHITE BLOOD CELLS                                     | <u>S (WBCS)</u>   |                   |                          | inon benolenor AntivitA. 200                         |
| TOTAL LEUCOCYTE C                                     |   | 9310              | /cmm                     | 4000 - 11000   |
| by FLOW CYTOMETRY                                     | Y BY SF CUBE & MICROSCOPY                                     |                   |                          |  |
| NUCLEATED RED BLC<br>by CALCULATED BY A<br>MICROSCOPY | DOD CELLS (nRBCS)<br>AUTOMATED HEMATOLOGY ANALYZER &          | NIL               |                          | 0.00 - 20.00   |
| NUCLEATED RED BLO                                     | DOD CELLS (nRBCS) %<br>AUTOMATED HEMATOLOGY ANALYZER &        | NIL               | %                        | < 10 %   |



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



: Mr. MANPREET SINGH

NAME



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

CEO & Consultant Pathologist

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|                    |   |                          |                        |

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| Test Name  | Value             | Unit | Biological Reference interval |
|--|-------------------|------|-------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC)   |                   |      |                               |
| NEUTROPHILS<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 54                | %    | 50 - 70                       |
| LYMPHOCYTES<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 29                | %    | 20 - 40                       |
| EOSINOPHILS<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 12 <sup>H</sup>   | %    | 1-6                           |
| MONOCYTES<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 5                 | %    | 2 - 12                        |
| BASOPHILS<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY<br>ABSOLUTE LEUKOCYTES (WBC) COUNT  | 0                 | %    | 0 - 1                         |
| ABSOLUTE NEUTROPHIL COUNT<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 5027              | /cmm | 2000 - 7500                   |
| ABSOLUTE LYMPHOCYTE COUNT<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 2700              | /cmm | 800 - 4900                    |
| ABSOLUTE EOSINOPHIL COUNT<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 1117 <sup>H</sup> | /cmm | 40 - 440                      |
| ABSOLUTE MONOCYTE COUNT<br>by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 466               | /cmm | 80 - 880                      |
| ABSOLUTE BASOPHIL COUNT<br>by flow cytometry by sf cube & microscopy<br>PLATELETS AND OTHER PLATELET PREDICTIVE MARKE            | 0<br>E <b>RS.</b> | /cmm | 0 - 110                       |
| PLATELET COUNT (PLT)<br>by hydro dynamic focusing, electrical impedence  | 329000            | /cmm | 150000 - 450000               |
| PLATELETCRIT (PCT)<br>by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  | 0.31              | %    | 0.10 - 0.36                   |
| MEAN PLATELET VOLUME (MPV)<br>by hydro dynamic focusing, electrical impedence  | 10                | fL   | 6.50 - 12.0                   |
| PLATELET LARGE CELL COUNT (P-LCC)<br>by hydro dynamic focusing, electrical impedence   | 75000             | /cmm | 30000 - 90000                 |
| PLATELET LARGE CELL RATIO (P-LCR)<br>by hydro dynamic focusing, electrical impedence   | 22.8              | %    | 11.0 - 45.0                   |
| PLATELET DISTRIBUTION WIDTH (PDW)<br>by hydro dynamic focusing, electrical impedence<br>NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | 16.1              | %    | 15.0 - 17.0                   |



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|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Patholog |                          | (Pathology)                   |
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|-----------------------------------|---|--------------------------|-----------------------------------|-------------------------------|
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| BARCODE NO.                       | : 01513488  | COLLECTI                 | ON DATE                           | : 20/Jul/2024 10:09AM         |
| CLIENT CODE.                      | : KOS DIAGNOSTIC LAB                              | REPORTIN                 | IG DATE                           | : 20/Jul/2024 02:39PM         |
| CLIENT ADDRESS                    | : 6349/1, NICHOLSON ROAD,                         | AMBALA CANTT             |                                   |                               |
| Test Name                         |   | Value                    | Unit                              | Biological Reference interval |
|                                   | G   | LYCOSYLATED HAEMOGLOE    | BIN (HBA1C)                       |                               |
| GLYCOSYLATED HAEM(<br>WHOLE BLOOD | OGLOBIN (HbA1c):                                  | 5.4                      | %                                 | 4.0 - 6.4                     |
| ESTIMATED AVERAGE F               | ,   | 108.28                   | mg/dL                             | 60.00 - 140.00                |
|                                   | AS PER AMERICAN DIA                               | BETES ASSOCIATION (ADA): |                                   |                               |
| RE                                | FERENCE GROUP                                     | GLYCOSYLATED HEMO        | GLOGIB (HBAIC) ii                 | n %                           |
| Non diab                          | etic Adults >= 18 years                           | <5.                      |                                   |                               |
| At F                              | Risk (Prediabetes)                                | 5.7 -                    |                                   |                               |
| Dia                               | gnosing Diabetes                                  | >= (                     |                                   |                               |
|                                   |   | Age > 19                 |                                   |                               |
| There is                          |   | Goals of Therapy:        | < 7.0                             | j                             |

#### COMMENTS:

1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of

Age < 19 Years

Actions Suggested:

Goal of therapy:

>8.0

<7.5

HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled. 3.Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be

significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4.High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





Therapeutic goals for glycemic control

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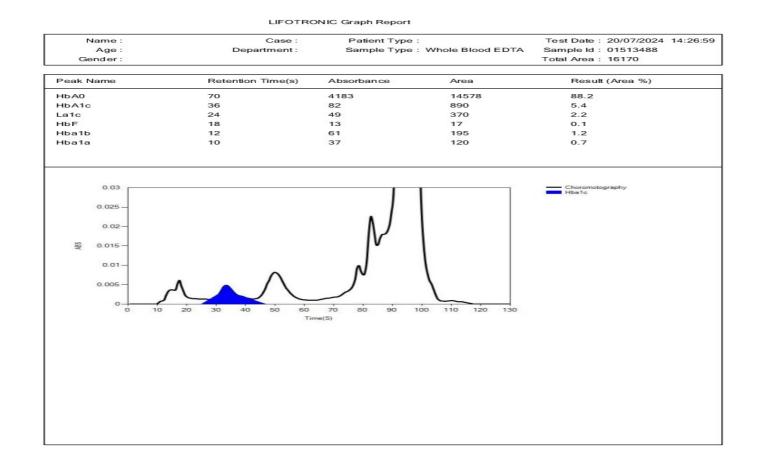


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| Test Name          |   | Value Unit               | Biological Reference interval |
|--------------------|---|--------------------------|-------------------------------|
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBA            | ILA CANT I               |                               |
| CLIENT ADDDECC     | 2040/1 NICHOLCON DOAD AMDA                | LA CANTT                 |                               |
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| NAME               | : Mr. MANPREET SINGH                      |                          |                               |
|                    | Chairman & Consultant                     | C, /                     |                               |
|                    | Dr. Vinay Chopra<br>MD (Pathology & Micro |                          | m Chopra<br>D (Pathology)     |





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| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AM   | MBALA CANTT  |   |   |
| Test Name  |  | Value  | Unit  | Biological Reference interval   |
|  | FRVTHR   | OCYTE SEDIMENT   | TION PATE (FSE  | 2   |
| by MODIFIED WESTER<br>NTERPRETATION:<br>. ESR is a non-specifi<br>mmune disease, but 4<br>2. An ESR can be affect<br>is C-reactive protein<br>3. This test may also b<br>ystemic lupus erythe<br>CONDITION WITH LOV<br>A low ESR can be seer<br>polycythaemia), sign<br>is sickle cells in sickle<br>NOTE:<br>. ESR and C - reactive<br>3. CRP is not affected<br>4. If the ESR is elevated<br>5. Women tend to hav<br>b. Drugs such as dextri | does not tell the health practitione<br>ted by other conditions besides in<br>the used to monitor disease activity<br>matosus<br><b>V ESR</b><br>n with conditions that inhibit the n<br>ificantly high white blood cell cour<br>e cell anaemia) also lower the ESR<br>e protein (C-RP) are both markers of<br>s not change as rapidly as does CRI<br>by as many other factors as is ESR,<br>d, it is typically a result of two typ<br>(e a higher ESR, and menstruation | er exactly where the ini<br>iflammation. For this re-<br>and response to thera<br>normal sedimentation of<br>the (leucocytosis), and<br>cont (leucocytosis), and | lammation is in the<br>eason, the ESR is typ<br>upy in both of the ak<br>of red blood cells, su<br>some protein abnor<br>inflammation or as<br><b>ker of inflammation</b><br>is or fibrinogen.<br>se temporary eleval | on associated with infection, cancer and auto-<br>body or what is causing it.<br>ically used in conjunction with other test such<br>bove diseases as well as some others, such as<br>uch as a high red blood cell count<br>malities. Some changes in red cell shape (such<br>it resolves. |
|  |  |  |   |   |





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|                    |   |              |                                     |                               |
| Test Name          |   | Value        | Unit                                | Biological Reference interval |
| Test Name          | CLIN  |              | Unit<br>FRY/BIOCHEMISTR             |                               |
| Test Name          | CLIN  |              |                                     |                               |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 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.
 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.





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| Test Name   |  | Value               | Unit                                | Biological Reference interval  |
|   |  | LIPID PROFILE :     | BASIC                               |  |
| CHOLESTEROL TOTAL   |  | 202.62 <sup>H</sup> | mg/dL                               | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0   |
| TRIGLYCERIDES: SERU   | JM<br>hate oxidase (enzymatic)                 | 61.96               | mg/dL                               | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| HDL CHOLESTEROL (E<br>by SELECTIVE INHIBITION                     |  | 62.25               | mg/dL                               | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0  |
| LDL CHOLESTEROL: S<br>by CALCULATED, SPEC                         |  | 127.98              | mg/dL                               | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTER<br>by CALCULATED, SPE                           |  | 140.37 <sup>H</sup> | mg/dL                               | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.0<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL:   |  | 12.39               | mg/dL                               | 0.00 - 45.00   |
| by CALCULATED, SPEC<br>TOTAL LIPIDS: SERUN<br>by CALCULATED, SPEC | Λ  | 467.2               | mg/dL                               | 350.00 - 700.00  |
| CHOLESTEROL/HDL R<br>by CALCULATED, SPEC                          | ATIO: SERUM                                    | 3.25                | RATIO                               | LOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0<br>MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0                                 |
| LDL/HDL RATIO: SERI   |  | 2.06                | RATIO                               | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0  |

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| CLIENT CODE.     | : KOS DIAGNOSTIC LAB     | REPO   | RTING DATE                          | : 20/Jul/2024 11:14AM         |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT   |                                     |                               |
| Test Name        |                          | Value  | Unit                                | Biological Reference interval |
| TRIGLYCERIDES/HD |                          | 1 <sup>L</sup>   | RATIO                               | 3.00 - 5.00                   |

### INTERPRETATION:

1. Measurements in the same patient can show physiological & analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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**EXCELLENCE IN HEALTHCARE & DIAGNOSTICS** 

Dr. Yugam Chopra

MD (Pathology)

| NAME                | : Mr. MANPREET SINGH     |                |                          |                               |
|---------------------|--------------------------|----------------|--------------------------|-------------------------------|
| AGE/ GENDER         | : 26 YRS/MALE            |                | PATIENT ID               | : 1555006                     |
| COLLECTED BY        | :                        |                | REG. NO./LAB NO.         | : 012407200036                |
| REFERRED BY         | :                        |                | <b>REGISTRATION DATE</b> | : 20/Jul/2024 10:05 AM        |
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| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD | ), AMBALA CANT | Т                        |                               |
| Test Name           |                          | Value          | Unit                     | Biological Reference interval |
|                     |                          | LIVER FUNCTIO  | ON TEST (COMPLETE)       |                               |
| BILIRUBIN TOTAL: S  |                          | 0.35           | mg/dL                    | INFANT: 0.20 - 8.00           |
| by DIAZOTIZATION SI | DECTRODHOTOMETRV         |                |                          |                               |

Dr. Vinay Chopra

MD (Pathology & Microbiology)

| BILIRUBIN TOTAL: SERUM<br>by diazotization, spectrophotometry                              | 0.35              | mg/dL | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
|--|-------------------|-------|---|
| BILIRUBIN DIRECT (CONJUGATED): SERUM<br>by DIAZO MODIFIED, SPECTROPHOTOMETRY               | 0.14              | mg/dL | 0.00 - 0.40                               |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM<br>by Calculated, spectrophotometry               | 0.21              | mg/dL | 0.10 - 1.00                               |
| SGOT/AST: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 22.41             | U/L   | 7.00 - 45.00                              |
| SGPT/ALT: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 24.46             | U/L   | 0.00 - 49.00                              |
| AST/ALT RATIO: SERUM<br>by Calculated, spectrophotometry                                   | 0.92              | RATIO | 0.00 - 46.00                              |
| ALKALINE PHOSPHATASE: SERUM<br>by Para nitrophenyl phosphatase by amino methyl<br>propanol | 73                | U/L   | 40.0 - 150.0                              |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM<br>by szasz, spectrophtometry                      | 19                | U/L   | 0.00 - 55.0                               |
| TOTAL PROTEINS: SERUM<br>by BIURET, SPECTROPHOTOMETRY                                      | 7.19              | gm/dL | 6.20 - 8.00                               |
| ALBUMIN: SERUM<br>by BROMOCRESOL GREEN   | 4.92              | gm/dL | 3.50 - 5.50                               |
| GLOBULIN: SERUM<br>by calculated, spectrophotometry  | 2.27 <sup>L</sup> | gm/dL | 2.30 - 3.50                               |
| A : G RATIO: SERUM<br>by calculated, spectrophotometry                                     | 2.17 <sup>H</sup> | RATIO | 1.00 - 2.00                               |

**INTERPRETATION** NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

**INCREASED:** 

| DRUG HEPATOTOXICITY                          | > 2                        |
|--|----------------------------|
| ALCOHOLIC HEPATITIS                          | > 2 (Highly Suggestive)    |
| CIRRHOSIS                                    | 1.4 - 2.0                  |
| INTRAHEPATIC CHOLESTATIS                     | > 1.5                      |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |
|  |                            |





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|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microb<br>Chairman & Consultant P | niology) MD              | n Chopra<br>D (Pathology)<br>It Pathologist |
|--------------------|--|--------------------------|---|
| NAME               | : Mr. MANPREET SINGH   |                          |   |
| AGE/ GENDER        | : 26 YRS/MALE  | PATIENT ID               | : 1555006                                   |
| COLLECTED BY       | :  | <b>REG. NO./LAB NO.</b>  | : 012407200036                              |
| <b>REFERRED BY</b> | :  | <b>REGISTRATION DATE</b> | : 20/Jul/2024 10:05 AM                      |
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| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBAL  | A CANTT                  |   |
|                    |  |                          |   |
| Test Name          | V  | alue Unit                | Biological Reference interval               |

#### DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

| PROGNOSTIC | SIGNIFICANCE: |
|------------|---------------|
|            |               |

| NORMAL               | < 0.65    |
|----------------------|-----------|
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |
|                      |           |



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Dr. Yugam Chopra

|   | Dr. Vinay Cho<br>MD (Pathology &<br>Chairman & Cons | Microbiology) | Dr. Tugam<br>MD<br>CEO & Consultant | (Pathology)                   |
|---|---|---------------|-------------------------------------|-------------------------------|
| NAME                                    | : Mr. MANPREET SINGH                                |               |                                     |                               |
| AGE/ GENDER                             | : 26 YRS/MALE                                       | PA            | TIENT ID                            | : 1555006                     |
| COLLECTED BY                            | :   | RE            | G. NO./LAB NO.                      | : 012407200036                |
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| CLIENT ADDRESS                          | : 6349/1, NICHOLSON ROAD, A                         | AMBALA CANTT  |                                     |                               |
| Test Name                               |   | Value         | Unit                                | Biological Reference interval |
|   | KID   | NEY FUNCTION  | TEST (COMPLETE)                     |                               |
| UREA: SERUM                             |   | 29.03         | mg/dL                               | 10.00 - 50.00                 |
|   | ATE DEHYDROGENASE (GLDH)                            |               |                                     |                               |
| CREATININE: SERUN<br>by ENZYMATIC, SPEC |   | 1.23          | mg/dL                               | 0.40 - 1.40                   |
| BLOOD UREA NITRO                        | GEN (BUN): SERUM                                    | 13.57         | mg/dL                               | 7.0 - 25.0                    |
| by CALCULATED, SPE                      |   | 11.00         | DATIO                               | 10.0. 20.0                    |
| RATIO: SERUM                            | GEN (BUN)/CREATININE                                | 11.03         | RATIO                               | 10.0 - 20.0                   |
| by CALCULATED, SPE                      | CTROPHOTOMETRY                                      |               |                                     |                               |
|   |   | 23.6          | RATIO                               |                               |
| by CALCULATED, SPE<br>URIC ACID: SERUM  | CIROPHOTOMETRY                                      | 6.4           | mg/dL                               | 3.60 - 7.70                   |
| by URICASE - OXIDAS                     | E PEROXIDASE  |               |                                     |                               |
| CALCIUM: SERUM<br>by ARSENAZO III, SPE  | CTROPHOTOMETRY                                      | 9.58          | mg/dL                               | 8.50 - 10.60                  |
| PHOSPHOROUS: SER                        |   | 3.86          | mg/dL                               | 2.30 - 4.70                   |
| -                                       | ATE, SPECTROPHOTOMETRY                              |               |                                     |                               |
| ELECTROLYTES                            |   |               |                                     |                               |
| SODIUM: SERUM<br>by ISE (ION SELECTIV   | E ELECTRODE)  | 142.1         | mmol/L                              | 135.0 - 150.0                 |
| POTASSIUM: SERUM                        |   | 4.11          | mmol/L                              | 3.50 - 5.00                   |
| by ISE (ION SELECTIV                    | E ELECTRODE)  | 10/ 57        |                                     | 00.0 110.0                    |
| CHLORIDE: SERUM<br>by ISE (ION SELECTIV | E ELECTRODE)  | 106.57        | mmol/L                              | 90.0 - 110.0                  |
|   | RULAR FILTERATION RATE                              |               |                                     |                               |
| ESTIMATED GLOME                         | RULAR FILTERATION RATE                              | 83            |                                     |                               |

Dr. Vinay Chopra

(eGFR): SERUM by CALCULATED

## INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

DR.YUGAM CHOPPA







| 5001.2500 0ENT   |  |  |                               |                    |  |                          |
|--|--|--|-------------------------------|--------------------|--|--------------------------|
|  |  | Dr. Vinay Chopra<br>MD (Pathology & Micro<br>Chairman & Consultant | obiology)                     |                    | m <b>Chopra</b><br>D (Pathology)<br>nt Pathologist |                          |
| IAME   | : Mr. MANP   | REET SINGH   |                               |                    |  |                          |
| AGE/ GENDER  | : 26 YRS/MA  | ALE.   | РАТ                           | IENT ID            | : 1555006  |                          |
|  |  |  |                               |                    |  |                          |
| COLLECTED BY   | :  |  |                               | NO./LAB NO.        | : 012407200036                                     |                          |
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| SARCODE NO.  | :01513488  |  | COL                           | LECTION DATE       | : 20/Jul/2024 10:09                                | AM                       |
| LIENT CODE.  | : KOS DIAGN  | JOSTIC LAB   | REP                           | ORTING DATE        | : 20/Jul/2024 11:14                                | AM                       |
| LIENT ADDRESS  | : 6349/1, N  | ICHOLSON ROAD, AMBA  | LA CANTT                      |                    |  |                          |
|  |  |  |                               |                    |  |                          |
| est Name   |  |  | Value                         | Unit               | Biological   | Reference interval       |
| . Prerenal azotemia<br>ECREASED RATIO (<<br>. Acute tubular necr<br>. Low protein diet al<br>. Severe liver diseas<br>. Other causes of de<br>. Repeated dialysis (<br>. Inherited hyperam | superimposed<br>10:1) WITH DEC<br>osis.<br>nd starvation.<br>e.<br>ecreased ureas<br>(urea rather th<br>monemias (ur | CREASED BUN :  | ut of extracellula<br>blood). | r fluid).          | aury).   |                          |
| . Phenacimide thera<br>. Rhabdomyolysis (r<br>. Muscular patients<br><b>VAPPROPIATE RATIO</b><br>. Diabetic ketoacido<br>hould produce an in   | apy (accelerate<br>eleases muscl<br>who develop i<br>c<br>sis (acetoacet<br>icreased BUN/                            | renal failure.<br>ate causes false increase                        | in creatinine wi              | th certain methodo | logies,resulting in norma                          | ıl ratio when dehydratio |
| STIMATED GLOMERU   |  | ON RATE:   |                               |                    |  | 1                        |
| CKD STAGE<br>G1  |  | DESCRIPTION<br>ormal kidney function                               | GFR ( mL/mi                   |                    | SSOCIATED FINDINGS<br>No proteinuria               | 4                        |
| G1<br>G2   |  | Kidney damage with   | >9                            |                    | Presence of Protein ,                              | 4                        |
| 02   |  | normal or high GFR   |                               |                    | bumin or cast in urine                             |                          |
| G3a  | 1  | Vild decrease in GFR   | 60 -                          |                    |  | 1                        |
| G3b  | Mo   | oderate decrease in GFR  | 30-                           |                    |  | ]                        |
| C1   | c  | overe decrease in CEP  | 15                            | 20                 |  | 1                        |

G4

G5

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Severe decrease in GFR

Kidney failure

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

15-29

<15

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|                    | Dr. Vinay Chopra<br>MD (Pathology & Micro<br>Chairman & Consultant | biology) MI              | m Chopra<br>D (Pathology)<br>ht Pathologist |
|--------------------|--|--------------------------|---|
| NAME               | : Mr. MANPREET SINGH   |                          |   |
| AGE/ GENDER        | : 26 YRS/MALE  | PATIENT ID               | : 1555006                                   |
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| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBAI                                    | LA CANTT                 |   |
| Test Name          |  | Value Unit               | Biological Reference interval               |

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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MBBS, MD (PATHOLOGY)

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|---------------------------------------|--|-------------------|---------------------------------------|-------------------------------|
| NAME                                  | : Mr. MANPREET SINGH                                   |                   |                                       |                               |
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| CLIENT ADDRESS                        | : 6349/1, NICHOLSON ROAD, A                            | MBALA CANTT       |                                       |                               |
| Test Name                             |  | Value             | Unit                                  | Biological Reference interval |
|                                       |  | IRON PROI         | FILE                                  |                               |
| IRON: SERUM                           |  | 62.2 <sup>L</sup> | μg/dL                                 | 65.0 - 175.0                  |
| •                                     | N BINDING CAPACITY (UIBC)                              | 249               | μg/dL                                 | 150.0 - 336.0                 |
| TOTAL IRON BINDIN<br>SERUM            | IG CAPACITY (TIBC)                                     | 311.2             | μg/dL                                 | 230 - 430                     |
| %TRANSFERRIN SAT                      | URATION: SERUM   | 19.99             | %                                     | 15.0 - 50.0                   |
| TRANSFERRIN: SERU<br>by SPECTROPHOTON | JM   | 220.95            | mg/dL                                 | 200.0 - 350.0                 |

#### **INTERPRETATION:-**

| VARIABLES                              | ANEMIA OF CHRONIC DISEASE | IRON DEFICIENCY ANEMIA | THALASSEMIA α/β TRAIT |
|--|---------------------------|------------------------|-----------------------|
| SERUM IRON:                            | Normal to Reduced         | Reduced                | Normal                |
| TOTAL IRON BINDING CAPACITY: Decreased |                           | Increased              | Normal                |
| % TRANSFERRIN SATURATION:              | Decreased                 | Decreased < 12-15 %    | Normal                |
| SERUM FERRITIN:                        | Normal to Increased       | Decreased              | Normal or Increased   |

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes. 2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for

iron deficiency anemia, is severely contra-indicated in Thalassemia. TOTAL IRON BINDING CAPACITY (TIBC):

1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

## % TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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|--|---|----------------|----------------------------------|---|
| IAME   | : Mr. MANPREET SINGH  |                |                                  |   |
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| CLIENT ADDRESS                                     | : 6349/1, NICHOLSON ROAD, AME                                 | SALA CANTI     | ſ                                |   |
| Test Name  |   | Value          | Unit                             | Biological Reference interval   |
|  |   | ENDO           | CRINOLOGY                        |   |
|  | THY   | ROID FUN       | CTION TEST: TOTAL                |   |
| TRIIODOTHYRONINI<br>by CMIA (CHEMILUMIN            | E (T3): SERUM<br>vescent microparticle immunoassay            | 0.768          | ng/mL                            | 0.35 - 1.93   |
| THYROXINE (T4): SE<br>by CMIA (CHEMILUMIN          | RUM<br>vescent microparticle immunoassay                      | 5.55<br>)      | μgm/dL                           | 4.87 - 12.60  |
|  | ING HORMONE (TSH): SERUM<br>NESCENT MICROPARTICLE IMMUNOASSAY | 2.141          | μlU/mL                           | 0.35 - 5.50   |
| 3rd GENERATION, ULT<br><u>INTERPRETATION</u> :     | RASENSITIVE   |                |                                  |   |
| day has influence on the trilodothyronine (T3).Fai |   | nulates the pr | oduction and secretion of the me | <i>m. The variation is of the order of 50%.Hence time of t</i><br>etabolically active hormones, thyroxine (T4)and<br>er underproduction (hypothyroidism) or |

overproduction(hyperthyroidism) of T4 and/or T3.

| CLINICAL CONDITION           | T3                    | T4                    | TSH                             |
|------------------------------|-----------------------|-----------------------|---------------------------------|
| Primary Hypothyroidism:      | Reduced               | Reduced               | Increased (Significantly)       |
| Subclinical Hypothyroidism:  | Normal or Low Normal  | Normal or Low Normal  | High                            |
| Primary Hyperthyroidism:     | Increased             | Increased             | Reduced (at times undetectable) |
| Subclinical Hyperthyroidism: | Normal or High Normal | Normal or High Normal | Reduced                         |

#### LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levies in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

| TRIIODOTH         | YRONINE (T3)                | THYROXINE (T4)    |                             | THYROID STIMU     | LATING HORMONE (TSH)         |
|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|------------------------------|
| Age               | Refferance<br>Range (ng/mL) | Age               | Refferance<br>Range (μg/dL) | Age               | Reference Range<br>( µIU/mL) |
| 0 - 7 Days        | 0.20 - 2.65                 | 0 - 7 Days        | 5.90 - 18.58                | 0 - 7 Days        | 2.43 - 24.3                  |
| 7 Days - 3 Months | 0.36 - 2.59                 | 7 Days - 3 Months | 6.39 - 17.66                | 7 Days - 3 Months | 0.58 - 11.00                 |
| 3 - 6 Months      | 0.51 - 2.52                 | 3 - 6 Months      | 6.75 - 17.04                | 3 Days – 6 Months | 0.70 - 8.40                  |





**DR.VINAY CHOPRA** CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)



Page 16 of 2





|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiolog<br>Chairman & Consultant Patho |                          | (Pathology)            |
|--------------------|---|--------------------------|------------------------|
| NAME               | : Mr. MANPREET SINGH  |                          |                        |
| AGE/ GENDER        | : 26 YRS/MALE   | PATIENT ID               | : 1555006              |
| COLLECTED BY       | :   | <b>REG. NO./LAB NO.</b>  | : 012407200036         |
| <b>REFERRED BY</b> | :   | <b>REGISTRATION DATE</b> | : 20/Jul/2024 10:05 AM |
| BARCODE NO.        | : 01513488  | <b>COLLECTION DATE</b>   | : 20/Jul/2024 10:09AM  |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB  | REPORTING DATE           | : 20/Jul/2024 11:19AM  |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBALA CA   | ANTT                     |                        |

| Test Name           |               |                       | Value            | Unit                | t           | Biological Reference interva |
|---------------------|---------------|-----------------------|------------------|---------------------|-------------|------------------------------|
| 6 - 12 Months       | 0.74 - 2.40   | 6 - 12 Months         | 7.10 - 16.16     | 6 - 12 Months       | 0.70 - 7.00 |                              |
| 1 - 10 Years        | 0.92 - 2.28   | 1 - 10 Years          | 6.00 - 13.80     | 1 – 10 Years        | 0.60 - 5.50 |                              |
| 11-19 Years         | 0.35 - 1.93   | 11 - 19 Years         | 4.87- 13.20      | 11 – 19 Years       | 0.50 - 5.50 |                              |
| > 20 years (Adults) | 0.35 - 1.93   | > 20 Years (Adults)   | 4.87 - 12.60     | > 20 Years (Adults) | 0.35-5.50   |                              |
|                     | RECO          | DMMENDATIONS OF TSH L | EVELS DURING PRE | GNANCY ( µIU/mL)    | -           |                              |
|                     | 1st Trimester |                       |                  | 0.10 - 2.50         |             |                              |
|                     | 2nd Trimester |                       |                  | 0.20 - 3.00         |             |                              |
|                     | 3rd Trimester |                       |                  | 0.30 - 4.10         |             |                              |

#### INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8. Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|  | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Patholog |   | (Pathology)  |  |
|--|--|---|--|--|
| NAME   | : Mr. MANPREET SINGH   |   |  |  |
| AGE/ GENDER  | : 26 YRS/MALE  | PATIENT ID                                | : 1555006  |  |
| <b>COLLECTED BY</b>  | :  | REG. NO./LAB NO.                          | : 012407200036   |  |
| <b>REFERRED BY</b>   | :  | <b>REGISTRATION DATE</b>                  | : 20/Jul/2024 10:05 AM   |  |
| BARCODE NO.  | : 01513488   | <b>COLLECTION DATE</b>                    | : 20/Jul/2024 10:09AM  |  |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB   | <b>REPORTING DATE</b>                     | : 20/Jul/2024 12:49PM  |  |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AMBALA CANT  | ГТ  |  |  |
| Test Name  | Value  | Unit                                      | Biological Reference interval  |  |
| ANTI   | IMMUNOPAT<br>HUMAN IMMUNODEFICIENCY VIRUS (  | HOLOGY/SEROLOGY<br>(HIV) DUO ULTRA WITH ( | (P-24 ANTIGEN DETECTION)   |  |
| HIV 1/2 AND P24 AN<br>by CMIA (CHEMILUMIN  | TIGEN: SERUM 0.06<br>ESCENT MICROPARTICLE IMMUNOASSAY)                                     | S/CO                                      | NEGATIVE: < 1.00<br>POSITIVE: > 1.00   |  |
| HIV 1/2 AND P24 AN<br>by CMIA (CHEMILUMIN<br>INTERPRETATION:-  | TIGEN RESULT NON - R<br>ESCENT MICROPARTICLE IMMUNOASSAY)                                  | REACTIVE                                  |  |  |
|  | T (INDEX)  | REMARKS                                   |  |  |
| < 1.   |  | NON - REACTIVE                            |  |  |
| Non-Reactive result in<br>exposed to HIV 1/2 i<br>antibodies. Hence a N<br><b>RECOMMENDATIONS</b><br>1. Results to be clinic |  | he "window phase" i.e. before             | s menas that patient has either not been the development of detectable levels of |  |





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|   | MD (Pat  | n <b>ay Chopra</b><br>hology & Microbiology)<br>n & Consultant Pathologist  |   | (Pathology)  |
|---|--|---|---|--|
| NAME  | : Mr. MANPREET SIN   | GH  |   |  |
| AGE/ GENDER   | : 26 YRS/MALE  |   | PATIENT ID  | : 1555006  |
| COLLECTED BY  | :  |   | REG. NO./LAB NO.  | : 012407200036   |
| EFERRED BY  | :  |   | <b>REGISTRATION DATE</b>  | : 20/Jul/2024 10:05 AM   |
| ARCODE NO.  | :01513488  |   | COLLECTION DATE   | : 20/Jul/2024 10:09AM  |
| LIENT CODE.   | : KOS DIAGNOSTIC LA  |   | <b>REPORTING DATE</b>   | : 20/Jul/2024 11:19AM  |
| LIENT ADDRESS   |  | ROAD, AMBALA CANTT  |   |  |
|   | 10010/1,11011022011  |   |   |  |
| est Name  |  | Value   | Unit  | Biological Reference interval  |
|   |  | VIT   | AMINS   |  |
|   |  | VITAMIN D/25 HY   | DROXY VITAMIN D3  |  |
|   | ROXY VITAMIN D3): SEF<br>VESCENCE IMMUNOASSAY  |   | ng/mL   | DEFICIENCY: < 20.0<br>INSUFFICIENCY: 20.0 - 30.0<br>SUFFICIENCY: 30.0 - 100.0<br>TOXICITY: > 100.0   |
| ITERPRETATION:  |  |   |   |  |
|   | CIENT:   | < 20  |   | g/mL   |
|   | FICIENT:   | <u>21 - 29</u><br>30 - 100  |   | g/mL   |
|   | CATION:  | > 100   |   | g/mLg/mL   |
| issue and tightly bou<br>. Vitamin D plays a p<br>shosphate reabsorpt<br>Severe deficiency n<br><b>DECREASED:</b><br>. Lack of sunshine ex<br>. Inadeguate intake,<br>. Depressed Hepatic<br>Secondary to advar<br>. Osteoporosis and S<br>Enzyme Inducing dr<br><b>NCREASED:</b><br>. Hypervitaminosis E<br>evere hypercalcemia<br><b>AUTION</b> : Replaceme<br>hypervitaminosis D | und by a transport prote<br>rimary role in the maint<br>ion, skeletal calcium dep<br>nay lead to failure to mir<br>posure.<br>malabsorption (celiac d<br>Vitamin D 25- hydroxyla<br>need Liver disease<br>econdary Hyperparathro<br>rugs: anti-epileptic drugs<br>D is Rare, and is seen onlia<br>and hyperphophatemia<br>nt therapy in deficient ir | in while in circulation.<br>enance of calcium homeo<br>osition, calcium mobiliza<br>heralize newly formed ostr<br>isease)<br>se activity<br>hidism (Mild to Moderate<br>like phenytoin, phenobar<br>y after prolonged exposur<br>dividuals must be monito | ostatis. It promotes calciun<br>tion, mainly regulated by p<br>eoid in bone, resulting in r<br>deficiency)<br>rbital and carbamazepine,<br>re to extremely high doses<br>ored by periodic assessmen | port form of Vitamin D, being stored in adipose<br>n absorption, renal calcium absorption and<br>parathyroid harmone (PTH).<br>ickets in children and osteomalacia in adults.<br>that increases Vitamin D metabolism.<br>of Vitamin D. When it occurs, it can result in<br>it of Vitamin D levels in order to prevent<br><i>iency due to excess of melanin pigment which</i> |
| nterefere with Vitami   | ιι υ αυνοιρτιοπ.   |   |   |  |





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Page 19 of 23





|  | Dr. Vinay Ch<br>MD (Pathology &<br>Chairman & Con |  |  | (Pathology)                   |
|--|---|--|--|-------------------------------|
| AME  | : Mr. MANPREET SINGH                              |  |  |                               |
| GE/ GENDER   | : 26 YRS/MALE                                     |  | PATIENT ID   | : 1555006                     |
| OLLECTED BY  | :   |  | REG. NO./LAB NO.   | : 012407200036                |
| EFERRED BY   |   |  | REGISTRATION DATE  | : 20/Jul/2024 10:05 AM        |
|  |   |  |  |                               |
| ARCODE NO.   | : 01513488  |  | COLLECTION DATE  | : 20/Jul/2024 10:09AM         |
| LIENT CODE.  | : KOS DIAGNOSTIC LAB                              |  | REPORTING DATE   | : 20/Jul/2024 11:34AM         |
| LIENT ADDRESS  | : 6349/1, NICHOLSON ROAD,                         | AMBALA CANTT   |  |                               |
| est Name   |   | Value  | Unit   | Biological Reference interval |
| <u>ITERPRETATION:-</u><br>INCREAS  | SED VITAMIN B12                                   |  | DECREASED VITAMIN  |                               |
|  | 1.0   | 1.5  |  | N B12                         |
| 1.Ingestion of Vitan   |   | 1.Pregna   | incy   |                               |
| 1.Ingestion of Vitan<br>2.Ingestion of Estro   | gen   | 2.DRUGS  | incy<br>S:Aspirin, Anti-convulsants  |                               |
| 1.Ingestion of Vitan<br>2.Ingestion of Estro<br>3.Ingestion of Vitan   | gen<br>hin A                                      | 2.DRUG<br>3.Ethance                                      | incy   |                               |
| 1.Ingestion of Vitan<br>2.Ingestion of Estro<br>3.Ingestion of Vitan<br>4.Hepatocellular in<br>5.Myeloproliferativ             | gen<br>hin A<br>jury                              | 2.DRUGS<br>3.Ethano<br>4. Contra<br>5.Haemo              | ncy<br>S:Aspirin, Anti-convulsants<br>Il Igestion<br>aceptive Harmones<br>odialysis                |                               |
| 1.Ingestion of Vitan<br>2.Ingestion of Estro<br>3.Ingestion of Vitan<br>4.Hepatocellular in<br>5.Myeloproliferativ<br>6.Uremia | gen<br>hin A<br>jury                              | 2.DRUGS<br>3.Ethano<br>4. Contra<br>5.Haemo<br>6. Multip | ncy<br>S:Aspirin, Anti-convulsants<br>ol Igestion<br>aceptive Harmones<br>odialysis<br>ole Myeloma |                               |





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







|                     | <b>Dr. Vinay Ch</b><br>MD (Pathology &<br>Chairman & Con | Microbiology)     | Dr. Yugan<br>MD<br>CEO & Consultant | (Pathology)                   |
|---------------------|--|-------------------|-------------------------------------|-------------------------------|
| NAME<br>AGE/ GENDER | : <b>Mr. MANPREET SINGH</b><br>: 26 YRS/MALE             | PATIEN            | TID                                 | : 1555006                     |
|                     | . 20 TRS/ WALL   |                   |                                     |                               |
| COLLECTED BY        | :  |                   | D./LAB NO.                          | : 012407200036                |
| <b>REFERRED BY</b>  | :  |                   | RATION DATE                         | : 20/Jul/2024 10:05 AM        |
| BARCODE NO.         | : 01513488   | COLLEC            | TION DATE                           | : 20/Jul/2024 10:09AM         |
| CLIENT CODE.        | : KOS DIAGNOSTIC LAB                                     | REPOR             | TING DATE                           | : 20/Jul/2024 10:46AM         |
| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, .                              | AMBALA CANTT      |                                     |                               |
| Test Name           |  | Value             | Unit                                | Biological Reference interval |
|                     |  | CLINICAL PATHO    | DLOGY                               |                               |
|                     |  | OUTINE & MICROSCO | PIC EXAMINAT                        | TION                          |
| PHYSICAL EXAMINA    | TION   |                   |                                     |                               |
| QUANTITY RECIEVE    | D  | 10                | ml                                  |                               |
|                     | by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY               |                   |                                     |                               |
| COLOUR              | CTANCE SPECTROPHOTOMETRY                                 | AMBER YELLOW      |                                     | PALE YELLOW                   |
| TRANSPARANCY        | TANCE SPECIROPHOTOMETRY                                  | CLEAR             |                                     | CLEAR                         |
|                     | TANCE SPECTROPHOTOMETRY                                  |                   |                                     | OLE IN                        |
| SPECIFIC GRAVITY    |  | 1.02              |                                     | 1.002 - 1.030                 |
|                     | CTANCE SPECTROPHOTOMETRY                                 |                   |                                     |                               |
| CHEMICAL EXAMINA    | ATION  |                   |                                     |                               |
| REACTION            | CTANCE SPECTROPHOTOMETRY                                 | ACIDIC            |                                     |                               |
| PROTEIN             | TANCE SPECTROFILOTOMETRY                                 | Negative          |                                     | NEGATIVE (-ve)                |
|                     | TANCE SPECTROPHOTOMETRY                                  | Negative          |                                     |                               |
| SUGAR               |  | Negative          |                                     | NEGATIVE (-ve)                |
| -                   | CTANCE SPECTROPHOTOMETRY                                 |                   |                                     |                               |
| pH                  | CTANCE SPECTROPHOTOMETRY                                 | 6                 |                                     | 5.0 - 7.5                     |
| BILIRUBIN           |  | Negative          |                                     | NEGATIVE (-ve)                |
|                     | CTANCE SPECTROPHOTOMETRY                                 | riogativo         |                                     |                               |
| NITRITE             |  | Negative          |                                     | NEGATIVE (-ve)                |
|                     | CTANCE SPECTROPHOTOMETRY.                                | Normal            |                                     | 0.2 1.0                       |
| UROBILINOGEN        | CTANCE SPECTROPHOTOMETRY                                 | Normal            | EU/dL                               | 0.2 - 1.0                     |
| KETONE BODIES       |  | Negative          |                                     | NEGATIVE (-ve)                |
|                     | TANCE SPECTROPHOTOMETRY                                  |                   |                                     |                               |
| BLOOD               |  | Negative          |                                     | NEGATIVE (-ve)                |
|                     | CTANCE SPECTROPHOTOMETRY                                 |                   |                                     |                               |
| ASCORBIC ACID       | CTANCE SPECTROPHOTOMETRY                                 | NEGATIVE (-ve)    |                                     | NEGATIVE (-ve)                |
|                     |  |                   |                                     |                               |

MICROSCOPIC EXAMINATION



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

| NAME               | : Mr. MANPREET SINGH                  |                |             |                               |
|--------------------|---------------------------------------|----------------|-------------|-------------------------------|
| AGE/ GENDER        | : 26 YRS/MALE                         | PATIEN         | T ID        | : 1555006                     |
| COLLECTED BY       | :                                     | REG. NO        | )./LAB NO.  | : 012407200036                |
| <b>REFERRED BY</b> | :                                     | REGIST         | RATION DATE | : 20/Jul/2024 10:05 AM        |
| BARCODE NO.        | :01513488                             | COLLEC         | TION DATE   | : 20/Jul/2024 10:09AM         |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB                  | REPOR          | FING DATE   | : 20/Jul/2024 10:46AM         |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AI          | MBALA CANTT    |             |                               |
| Test Name          |                                       | Value          | Unit        | Biological Reference interval |
| RED BLOOD CELLS (F | RBCs)<br>CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | /HPF        | 0 - 3                         |
| PUS CELLS          |                                       | 1-3            | /HPF        | 0 - 5                         |

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

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT



(an-

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 care@koshealthcare.com
 www.koshealthcare.com







|                | Dr. Vinay Ch<br>MD (Pathology &<br>Chairman & Cor | & Microbiology) | Yugam Chopra<br>MD (Pathology)<br>onsultant Pathologist |
|----------------|---|-----------------|---|
| NAME           | : Mr. MANPREET SINGH                              |                 |   |
| AGE/ GENDER    | : 26 YRS/MALE                                     | PATIENT ID      | : 1555006   |
| COLLECTED BY   | :   | REG. NO./LAB N  | 0. : 012407200036                                       |
| REFERRED BY    | :   | REGISTRATION    | DATE : 20/Jul/2024 10:05 AM                             |
| BARCODE NO.    | : 01513488  | COLLECTION DA   | <b>TE</b> : 20/Jul/2024 10:09AM                         |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB                              | REPORTING DAT   | <b>FE</b> : 24/Jul/2024 08:51AM                         |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD,                         | AMBALA CANTT    |   |
| Test Name      |   | Value U         | Init Biological Reference interval                      |

**KOS Diagnostic Lab** (A Unit of KOS Healthcare)

## CHLAMYDIA TRACHOMATIS DNA DETECTION

CHLAMYDIA TRACHOMATIS DNA DETECTION by PCR (POLYMERASE CHAIN REACTION)

**Target Not Detected** 

# INTERPRETATION: CLINICAL SIGNIFICANCE:

1. Chlamydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can manifest in various ways, including:

 Charnydia trachomatis is a common sexually transmitted infection (STI) caused by bacteria, which can halfnest in various ways, including: trachoma, lymphogranuloma venereum, nongonococcal urethritis, cervicitis, salpingitis, pelvic inflammatory disease.
 Chlamydia trachomatis affects both men and women and occurs in all age groups, though it's most prevalent among young women. Chlamydia isn't difficult to treat once you know you have it. If left untreated, however, it can lead to more-serious health problems.
 Early-stage Chlamydia trachomatis infections often cause few or no signs and symptoms. When signs or symptoms occur, they usually start one to two weeks after exposure to chlamydia. Even when signs and symptoms occur, they're often mild and passing, making them easy to overlook. d. It's also possible to acquire chlamydial eye infections (conjunctivitis) through contact with infected secretions. LIMITATIONS:

1. The results of this test are highly dependent on the sampling technique employed, sample type, cold-chain maintenance and clinical condition. 2. Please note that false-negative report may be generated in cases where there is possibility of presence of PCR inhibitors (cannot be traced by technologist) or viral load lesser than the assay lower limit of detection as well as presence of rare genetic mutation.

3. Please note that false-positive report may be generated in cases where there is possibility of background DNA contamination from pre analytical or in lab environment.

4. The assay performance characteristics for this test are determined by STMPL which is used for clinical diagnosis.
5. There is poor standardization between commercially available PCR tests, and results from different institutions should not be directly compared. Results are best monitored using a single institution.

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





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