

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|                      | Dr. Vinay Chop<br>MD (Pathology & Mid<br>Chairman & Consulta | crobiology)        |                    | (Pathology)                    |
|----------------------|--|--------------------|--------------------|--------------------------------|
| NAME                 | : Mr. MANI LAL   |                    |                    |                                |
| AGE/ GENDER          | : 63 YRS/MALE  |                    | PATIENT ID         | : 1634033                      |
| COLLECTED BY         |  |                    | REG. NO./LAB NO.   | : 012410040022                 |
| REFERRED BY          |  |                    | REGISTRATION DATE  | : 04/0ct/2024 09:35 AM         |
| BARCODE NO.          | :01518278  |                    | COLLECTION DATE    | : 04/Oct/2024 09:39AM          |
| CLIENT CODE.         | : KOS DIAGNOSTIC LAB   |                    | REPORTING DATE     | : 04/0ct/2024 09:54AM          |
|                      |  |                    |                    | . 04/ 001/ 2024 09.34AM        |
| CLIENT ADDRESS       | : 6349/1, NICHOLSON ROAD, AMI                                | BALA CANTI         |                    |                                |
| Test Name            |  | Value              | Unit               | Biological Reference interval  |
|                      | SWAS   | STHYA WE           | ELLNESS PANEL: 1.0 |                                |
|                      | COL  | MPLETE BL          | OOD COUNT (CBC)    |                                |
| RED BLOOD CELLS (RE  | BCS) COUNT AND INDICES                                       |                    |                    |                                |
| HAEMOGLOBIN (HB)     |  | 14.1               | gm/dL              | 12.0 - 17.0                    |
| by CALORIMETRIC      |  | 14.1               | grin de            | 12.0 - 17.0                    |
| RED BLOOD CELL (RBC  | ,  | 4.9                | Millions/c         | mm 3.50 - 5.00                 |
| -                    | CUSING, ELECTRICAL IMPEDENCE                                 | 40.0               | 0/                 |                                |
| PACKED CELL VOLUMI   | : (PUV)<br>ITOMATED HEMATOLOGY ANALYZER                      | 42.8               | %                  | 40.0 - 54.0                    |
| MEAN CORPUSCULAR     |  | 87.4               | fL                 | 80.0 - 100.0                   |
| by CALCULATED BY AU  | TOMATED HEMATOLOGY ANALYZER                                  |                    |                    |                                |
|                      | HAEMOGLOBIN (MCH)  | 28.7               | pg                 | 27.0 - 34.0                    |
|                      | TOMATED HEMATOLOGY ANALYZER<br>HEMOGLOBIN CONC. (MCHC)       | 32.9               | g/dL               | 32.0 - 36.0                    |
|                      | TOMATED HEMATOLOGY ANALYZER                                  | 32.7               | y/uL               | 32.0 - 30.0                    |
| RED CELL DISTRIBUTIO | ON WIDTH (RDW-CV)  | 13.7               | %                  | 11.00 - 16.00                  |
|                      | TOMATED HEMATOLOGY ANALYZER                                  | 15.0               | a                  |                                |
| RED CELL DISTRIBUTIO | JN WIDTH (RDW-SD)<br>TOMATED HEMATOLOGY ANALYZER             | 45.2               | fL                 | 35.0 - 56.0                    |
| MENTZERS INDEX       |  | 17.84              | RATIO              | BETA THALASSEMIA TRAIT: < 13.0 |
| by CALCULATED        |  |                    |                    | IRON DEFICIENCY ANEMIA: >13.0  |
| GREEN & KING INDEX   |  | 24.37              | RATIO              | BETA THALASSEMIA TRAIT:<= 65.0 |
| by CALCULATED        |  |                    |                    | IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CELLS    |  |                    |                    |                                |
| TOTAL LEUCOCYTE CO   |  | 13080 <sup>H</sup> | /cmm               | 4000 - 11000                   |
| NUCLEATED RED BLO    | BY SF CUBE & MICROSCOPY<br>OD CELLS (nRBCS)                  | NIL                |                    | 0.00 - 20.00                   |
|                      | THEMATOLOGY ANALYZER   |                    |                    | 0.00 20.00                     |
| NUCLEATED RED BLO    |  | NIL                | %                  | < 10 %                         |
| by CALCULATED BY AU  |  |                    |                    |                                |
|                      |  | E (                | 0/                 | F0 70                          |
| NEUTROPHILS          | BY SF CUBE & MICROSCOPY                                      | 56                 | %                  | 50 - 70                        |

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MANI LAL AGE/ GENDER : 63 YRS/MALE **PATIENT ID** :1634033 **COLLECTED BY** :012410040022 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :04/0ct/2024 09:35 AM **BARCODE NO.** :01518278 **COLLECTION DATE** :04/0ct/2024 09:39AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :04/Oct/2024 09:54AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 38 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 7325 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 800 - 4900 /cmm 4970<sup>H</sup> by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 40 - 440 ABSOLUTE EOSINOPHIL COUNT 131 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 654 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 289000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.29 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 6.50 - 12.0 10 fl by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 75000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 25.8 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 15.0 - 17.0 16.2 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE



NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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|  |   | <b>Chopra</b><br>gy & Microbiology)<br>Consultant Pathologist   | Dr. Yugam<br>MD<br>CEO & Consultant   | (Pathology)  |
|--|---|---|---|--|
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| CLIENT CODE.   | : KOS DIAGNOSTIC LAB  | R   | EPORTING DATE   | :04/Oct/2024 10:16AM   |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROA   | AD, AMBALA CANTT  |   |  |
| Test Name  |   | Value   | Unit  | Biological Reference interval  |
|  | ER  | THROCYTE SEDIM  | ENTATION RATE (ES   | 8)   |
| ERYTHROCYTE SEDI   | MENTATION RATE (ESR)  | 3   | mm/1st h  |  |
| systemic lupus eryth   | ematosus  | ctivity and response to   | therapy in both of the al   | bove diseases as well as some others, such as  |
| systemic lupus eryth<br>CONDITION WITH LO<br>A low ESR can be see<br>(polycythaemia), sigi<br>as sickle cells in sick<br>NOTE:<br>1. ESR and C - reactiv<br>2. Generally, ESR do<br>3. CRP is not affected<br>4. If the ESR is elevat<br>5. Women tend to ha<br>6. Drugs such as dex | ematosus<br>W ESR<br>en with conditions that inhibit<br>hificantly high white blood ce<br>le cell anaemia) also lower th<br>re protein (C-RP) are both mar<br>es not change as rapidly as do<br>l by as many other factors as i<br>ed, it is typically a result of tw<br>we a higher ESR, and menstru | the normal sedimenta<br>Il count (leucocytosis)<br>ie ESR.<br>kers of inflammation.<br>es CRP, either at the st<br><b>s ESR, making it a bette</b><br>vo types of proteins, gl<br>ation and progenancy ca | ation of red blood cells, su<br>, and some protein abnor<br>eart of inflammation or as<br>er marker of inflammation<br>obulins or fibrinogen.<br>an cause temporary eleva | ich as a high red blood cell count<br>malities. Some changes in red cell shape (such<br>it resolves. |





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







|                    | Dr. Vinay Cl<br>MD (Pathology<br>Chairman & Co |                          | Dr. Yugan<br>MD<br>CEO & Consultant | (Pathology)                   |
|--------------------|--|--------------------------|-------------------------------------|-------------------------------|
| NAME               | : Mr. MANI LAL                                 |                          |                                     |                               |
| AGE/ GENDER        | : 63 YRS/MALE                                  | PAT                      | IENT ID                             | : 1634033                     |
| COLLECTED BY       | :  | REG                      | NO./LAB NO.                         | : 012410040022                |
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| CLIENT CODE.       | : KOS DIAGNOSTIC LAB                           | REP                      | ORTING DATE                         | : 04/Oct/2024 10:55AM         |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD                       | , AMBALA CANTT           |                                     |                               |
| CLIENT ADDRESS     |  |                          |                                     |                               |
| Test Name          |  | Value                    | Unit                                | Biological Reference interval |
| <b></b>            |  | Value<br>IICAL CHEMISTRY |                                     |                               |
| <b></b>            |  |                          | /BIOCHEMISTR                        |                               |

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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| TRIGLYCERIDES: SERUM<br>by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)         205.38 <sup>H</sup> mg/dL         HIGH CHOLESTEROL: > OR = 240.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>VERY HIGH: > OR = 500.0           HDL CHOLESTEROL (DIRECT): SERUM<br>by SELECTIVE INHIBITION         58.45         mg/dL         LOW HOL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0           LDL CHOLESTEROL: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY         50.09         mg/dL         OPTIMAL: < 100.0 - 129.0<br>BORDERLINE HIGH HDL: > OR = 60.0           NON HDL CHOLESTEROL: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY         50.09         mg/dL         OPTIMAL: < 100.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 159.0<br>HIGH: 160.0 - 159.0<br>VERY HIGH: > OR = 190.0<br>VERY HIGH: > OR = 190.0<br>VERY HIGH: > OR = 20.0<br>VERY |   | <b>Dr. Vinay Ch</b><br>MD (Pathology &<br>Chairman & Cor |                     |  | (Pathology)   |
|---|---|--|---------------------|--|---|
| Test Name         Value         Unit         Biological Reference Interval           LIPID PROFILE : BASIC         LIPID PROFILE : BASIC         Bordeneu (Construction)         Bordeneu (Constructin)         Bordeneu (Constructin)         Borde  | AGE/ GENDER<br>COLLECTED BY<br>REFERRED BY<br>BARCODE NO. | : 63 YRS/MALE<br>:<br>: 01518278                         |                     | REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE | : 012410040022<br>: 04/Oct/2024 09:35 AM<br>: 04/Oct/2024 09:39AM                     |
| LIPID PROFILE : BASIC           CHOLESTEROL TOTAL: SERUM         149.62         mg/dL         OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: SERUM           by CHOLESTEROL OXIDASE PAP         205.38 <sup>H</sup> mg/dL         OPTIMAL: < 150.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: SERUM           by GLYGEROL PHOSPHATE OXIDASE (ENZYMATIC)         205.38 <sup>H</sup> mg/dL         OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>VERY HIGH: 200.0 - 499.0<br>VERY HIGH: 200.0 - 499.0<br>HIGH HIGL: 30.0 - 60.0<br>HIGH HIGL: 30.0 - 60.0<br>HIGH HIGL: 30.0 - 160.0<br>HIGH HIGL: 30.0 - 129.0<br>BORDERLINE HIGH HIGH: 100.0 - 129.0<br>BORDERLINE HIGH HIGH: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>VERY HIGH: > 0R = 60.0<br>VERY HIGH: > 0R = 190.0<br>VERY HIGH: > 0R = 220.0<br>VERY HIGH: > 0R = 220.0<br>HIGH HIGH: 160.0 - 1189.0<br>HIGH: HIGH: > 0R = 220.0<br>VERY HIGH: > 0R = 220.0<br>HIGH RISK: > 11.0<br>HIGH RISK: > 11.0<br>HIGH RISK: > 11.0<br>HIGH RISK: > 11.0<br>HIGH RISK: > 0.1 - 11.0<br>HIGH RISK: > 0.3 - 3.0  |   | : 6349/1, NICHOLSON ROAD,                                |                     | Unit   | Biological Reference interval   |
| CHOLESTEROL TOTAL: SERUM<br>by CHOLESTEROL OXIDASE PAP149.62mg/dLOPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: > OR = 500.0<br>HIGH: > OR = 500.0<br>HIGH HDL: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>HIGH: > OR = 190.0<br>VERY HIGH: > OR = 220.0<br>VERY HIGH: > OR = 20.0<br>VERY HIGH: > OR = 220.0<br>VERY HIGH: > OR = 220   | lest Name   |  | Value               | Onit   |   |
| CHOLESTEROL TOTAL: SERUM<br>by CHOLESTEROL OXIDASE PAP149.62mg/dLOPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0<br>BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: > OR = 500.0<br>HIGH: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>HIGH: > OR = 100.0<br>HIGH: > OR = 190.0<br>VERY HIGH: > OR = 220.0<br>VERY HIGH: > OR = 20.0<br>VERY HIGH: > OR = 220.0<br>VERY HIGH: > OR = 220.0  |   |  | LIPID PRO           | OFILE : BASIC  |   |
| by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)LOUGOBby GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)EUGOOHIGH: 200.0HDL CHOLESTEROL (DIRECT): SERUM58.45mg/dLLOW HIGH: 200.0by SELECTIVE INHIBITION58.45mg/dLLOW HDL: < 30.0  |   |  |                     |  | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.0<br>HIGH CHOLESTEROL: > OR = 240.0  |
| by SELECTIVE INHIBITIONBORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>HIGH HDL: > OR = 60.0<br>BORDERLINE HIGH: 100.0 - 129.0<br>  |   |  | 205.38 <sup>H</sup> | mg/dL  | BORDERLINE HIGH: 150.0 - 199.0<br>HIGH: 200.0 - 499.0                                 |
| LDL CHOLESTEROL: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY50.09mg/dLOPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>  |   |  | 58.45               | mg/dL  | BORDERLINE HIGH HDL: 30.0 -<br>60.0   |
| NON HDL CHOLESTEROL: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY91.17mg/dLOPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.0<br>  |   |  | 50.09               | mg/dL  | ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.0<br>HIGH: 160.0 - 189.0 |
| by CALCULATED, SPECTROPHOTOMETRY       504.62       mg/dL       350.00 - 700.00         by CALCULATED, SPECTROPHOTOMETRY       504.62       mg/dL       350.00 - 700.00         CHOLESTEROL/HDL RATIO: SERUM       2.56       RATIO       LOW RISK: 3.30 - 4.40         by CALCULATED, SPECTROPHOTOMETRY       2.56       RATIO       AVERAGE RISK: 4.50 - 7.0         LDL/HDL RATIO: SERUM       0.86       RATIO       LOW RISK: 0.50 - 3.0   |   |  | 91.17               | mg/dL  | ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.0<br>HIGH: 190.0 - 219.0 |
| TOTAL LIPIDS: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY504.62mg/dL350.00 - 700.00CHOLESTEROL/HDL RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY2.56RATIOLOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0<br>MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0LDL/HDL RATIO: SERUM0.86RATIOLOW RISK: 0.50 - 3.0   |   |  | 41.08               | mg/dL  | 0.00 - 45.00  |
| CHOLESTEROL/HDL RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY2.56RATIOLOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0<br>MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0LDL/HDL RATIO: SERUM0.86RATIOLOW RISK: 0.50 - 3.0  | TOTAL LIPIDS: SERUM                                       |  | 504.62              | mg/dL  | 350.00 - 700.00   |
| LDL/HDL RATIO: SERUM 0.86 RATIO LOW RISK: 0.50 - 3.0  | CHOLESTEROL/HDL R/  | ATIO: SERUM  | 2.56                | RATIO  | AVERAGE RISK: 4.50 - 7.0<br>MODERATE RISK: 7.10 - 11.0                                |
| HIGH RISK: > 6.0  |   |  | 0.86                | RATIO  | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0                                     |



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|                   | <b>Dr. Vinay Ch</b><br>MD (Pathology &<br>Chairman & Con |              | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                   |
|-------------------|--|--------------|-------------------------------------|-------------------------------|
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| <u> </u>          |  |              |                                     |                               |
| Test Name         |  | Value        | Unit                                | Biological Reference interval |
| TRIGLYCERIDES/HDI | RATIO: SERUM   | 3.51         | RATIO                               | 3.00 - 5.00                   |

by CALCULATED, SPECTROPHOTOMETRY

## **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 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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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. MANI LAL AGE/ GENDER : 63 YRS/MALE **PATIENT ID** :1634033 **COLLECTED BY** REG. NO./LAB NO. :012410040022 : **REFERRED BY REGISTRATION DATE** :04/0ct/2024 09:35 AM : **BARCODE NO.** :01518278 **COLLECTION DATE** :04/0ct/2024 09:39AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :04/Oct/2024 11:25AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 

| LIV  | YER FUNCTION TE | ST (COMPLETE) |   |
|--|-----------------|---------------|---|
| BILIRUBIN TOTAL: SERUM<br>by DIAZOTIZATION, SPECTROPHOTOMETRY                              | 1.02            | mg/dL         | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM<br>by DIAZO MODIFIED, SPECTROPHOTOMETRY               | 0.23            | mg/dL         | 0.00 - 0.40                               |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM<br>by Calculated, spectrophotometry               | 0.79            | mg/dL         | 0.10 - 1.00                               |
| SGOT/AST: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 16.9            | U/L           | 7.00 - 45.00                              |
| SGPT/ALT: SERUM<br>by IFCC, WITHOUT PYRIDOXAL PHOSPHATE                                    | 19.8            | U/L           | 0.00 - 49.00                              |
| AST/ALT RATIO: SERUM<br>by Calculated, spectrophotometry                                   | 0.85            | RATIO         | 0.00 - 46.00                              |
| ALKALINE PHOSPHATASE: SERUM<br>by Para nitrophenyl phosphatase by amino methyl<br>propanol | 73.11           | U/L           | 40.0 - 130.0                              |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM<br>by SZASZ, SPECTROPHTOMETRY                      | 26.78           | U/L           | 0.00 - 55.0                               |
| TOTAL PROTEINS: SERUM<br>by BIURET, SPECTROPHOTOMETRY                                      | 7.08            | gm/dL         | 6.20 - 8.00                               |
| ALBUMIN: SERUM<br>by BROMOCRESOL GREEN   | 3.95            | gm/dL         | 3.50 - 5.50                               |
| GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY   | 3.13            | gm/dL         | 2.30 - 3.50                               |
| A : G RATIO: SERUM<br>by calculated, spectrophotometry                                     | 1.26            | 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                   |





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|                    | <b>Dr. Vinay Chop</b><br>MD (Pathology & M<br>Chairman & Consul | icrobiology) |                          | (Pathology)                   |
|--------------------|---|--------------|--------------------------|-------------------------------|
| NAME               | : Mr. MANI LAL  |              |                          |                               |
| AGE/ GENDER        | : 63 YRS/MALE   |              | PATIENT ID               | : 1634033                     |
| COLLECTED BY       | :   |              | REG. NO./LAB NO.         | : 012410040022                |
| <b>REFERRED BY</b> | :   |              | <b>REGISTRATION DATE</b> | : 04/Oct/2024 09:35 AM        |
| BARCODE NO.        | : 01518278  |              | <b>COLLECTION DATE</b>   | :04/Oct/2024 09:39AM          |
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| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AM                                    | IBALA CANT   | Г                        |                               |
| Test Name          |   | Value        | Unit                     | Biological Reference interval |
| HEPATOCELLULAR C   | ARCINOMA & CHRONIC HEPATITIS                                    |              | > 1.3 (Slightly Inc      | reased)                       |

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).

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



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|   |                           | o <b>pra</b><br>Microbiology)<br>sultant Pathologist |                          | (Pathology)                   |
|---|---------------------------|--|--------------------------|-------------------------------|
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| CLIENT ADDRESS                          | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT   |                          |                               |
| Test Name                               |                           | Value  | Unit                     | Biological Reference interval |
|   | кі                        | DNEY FUNCTIO   | N TEST (COMPLETE)        |                               |
| UREA: SERUM                             |                           | 29.29  | mg/dL                    | 10.00 - 50.00                 |
| -                                       | ATE DEHYDROGENASE (GLDH)  |  | ů                        |                               |
| CREATININE: SERUN<br>by ENZYMATIC, SPEC |                           | 1.03   | mg/dL                    | 0.40 - 1.40                   |
| BLOOD UREA NITRC                        |                           | 13.69  | mg/dL                    | 7.0 - 25.0                    |
|   | ECTROPHOTOMETRY           | 10.07  | ing, de                  | 7.6 20.0                      |
|   | OGEN (BUN)/CREATININE     | 13.29  | RATIO                    | 10.0 - 20.0                   |
| RATIO: SERUM<br>by CALCULATED, SPE      | ECTROPHOTOMETRY           |  |                          |                               |
| UREA/CREATININE                         |                           | 28.44  | RATIO                    |                               |
| by CALCULATED, SPE                      | ECTROPHOTOMETRY           |  |                          |                               |
| URIC ACID: SERUM                        |                           | 6.79   | mg/dL                    | 3.60 - 7.70                   |
| CALCIUM: SERUM                          | DEFENUNIDASE              | 9.03   | mg/dL                    | 8.50 - 10.60                  |
| by ARSENAZO III, SPE                    | ECTROPHOTOMETRY           |  |                          |                               |
| PHOSPHOROUS: SEF                        |                           | 3.44   | mg/dL                    | 2.30 - 4.70                   |
| by PHOSPHOMOLYBL                        | DATE, SPECTROPHOTOMETRY   |  |                          |                               |

| ELECTROLYTES   |        |        |
|--|--------|--------|
| SODIUM: SERUM<br>by ISE (ION SELECTIVE ELECTRODE)    | 138.1  | mmol/L |
| POTASSIUM: SERUM<br>by ISE (ION SELECTIVE ELECTRODE) | 4.3    | mmol/L |
| CHLORIDE: SERUM<br>by ISE (ION SELECTIVE ELECTRODE)  | 103.57 | mmol/L |
| ESTIMATED GLOMERULAR FILTERATION RATE                |        |        |
| ESTIMATED GLOMERULAR FILTERATION RATE                | 81.6   |        |

(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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135.0 - 150.0

3.50 - 5.00

90.0 - 110.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





|   | MD (Patholog   | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Pathologist         |                           | n Chopra<br>(Pathology)<br>: Pathologist     |
|---|--|---|---------------------------|--|
| NAME  | : Mr. MANI LAL   |   |                           |  |
| AGE/ GENDER   | : 63 YRS/MALE  | P   | ATIENT ID                 | : 1634033                                    |
| COLLECTED BY  | :  | R   | EG. NO./LAB NO.           | : 012410040022                               |
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| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROA  |   |                           |  |
|   |  |   |                           |  |
| Test Name   |  | Value   | Unit                      | Biological Reference interval                |
| burns, surgery, cache<br>7. Urine reabsorption<br>8. Reduced muscle n<br>9. Certain drugs (e.g  | nction plus<br>ake or production or tissue br<br>exia, high fever).<br>n (e.g. ureter colostomy)<br>nass (subnormal creatinine pr<br>tetracycline, glucocorticoids)  | oduction)   | , GI bleeding, thyrotoxic | osis, Cushing's syndrome, high protein diet, |
| . Impaired renal fui<br>Excess protein inta<br>urns, surgery, cache<br>Urine reabsorption<br>Reduced muscle n<br>Certain drugs (e.g<br>VCREASED RATIO (><br>Postrenal azotemia<br>Perenal azotemia<br>DECREASED RATIO (<<br>Acute tubular nec<br>Low protein diet a<br>Severe liver diseas<br>Other causes of de<br>Repeated dialysis | nction plus<br>ake or production or tissue br<br>exia, high fever).<br>In (e.g. ureter colostomy)<br>hass (subnormal creatinine pr<br>tetracycline, glucocorticoids<br>20:1) WITH ELEVATED CREATIN<br>a (BUN rises disproportionate<br>superimposed on renal disea<br>10:1) WITH DECREASED BUN :<br>rosis.<br>nd starvation. | oduction)<br>)<br><b>JINE LEVELS:</b><br>ly more than creatinine<br>ase.<br>diffuses out of extracell | ) (e.g. obstructive uropa |  |

## **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement).

| CKD STAGE | DESCRIPTION              | GFR ( mL/min/1.73m2 ) | ASSOCIATED FINDINGS      |
|-----------|--------------------------|-----------------------|--------------------------|
| G1        | Normal kidney function   | >90                   | No proteinuria           |
| G2        | Kidney damage with       | >90                   | Presence of Protein ,    |
|           | normal or high GFR       |                       | Albumin or cast in urine |
| G3a       | Mild decrease in GFR     | 60 -89                |                          |
| G3b       | Moderate decrease in GFR | 30-59                 |                          |
| G4        | Severe decrease in GFR   | 15-29                 |                          |
| G5        | Kidney failure           | <15                   |                          |



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|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microb<br>Chairman & Consultant F | iology) MD               | m Chopra<br>D (Pathology)<br>at Pathologist |
|--------------------|--|--------------------------|---|
| NAME               | : Mr. MANI LAL   |                          |   |
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|                    |  |                          |   |
| Test Name          | V  | alue 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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|                               |                          |                   |               | (Pathology)                  |  |
|-------------------------------|--------------------------|-------------------|---------------|------------------------------|--|
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| CLIENT ADDRESS                | : 6349/1, NICHOLSON ROAI | D, AMBALA CANTT   |               |                              |  |
| Test Name                     |                          | Value             | Unit          | Biological Reference interva |  |
|                               |                          | CLINICAL PATH     | IOLOGY        |                              |  |
|                               | URINE                    | ROUTINE & MICROSC | OPIC EXAMINAT | TION                         |  |
| PHYSICAL EXAMINA              | <u>FION</u>              |                   |               |                              |  |
| QUANTITY RECIEVED             | )                        | 10                | ml            |                              |  |
| •                             | TANCE SPECTROPHOTOMETRY  |                   |               |                              |  |
| COLOUR<br>by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY  | PALE YELLOW       |               | PALE YELLOW                  |  |
| TRANSPARANCY                  |                          | HAZY              |               | CLEAR                        |  |
| -                             | TANCE SPECTROPHOTOMETRY  | 1.00              |               | 1 000 1 000                  |  |
| SPECIFIC GRAVITY              | TANCE SPECTROPHOTOMETRY  | 1.02              |               | 1.002 - 1.030                |  |
| CHEMICAL EXAMINA              |                          |                   |               |                              |  |
| REACTION                      |                          | ACIDIC            |               |                              |  |
| -                             | TANCE SPECTROPHOTOMETRY  |                   |               |                              |  |
| PROTEIN                       | TANCE SPECTROPHOTOMETRY  | Negative          |               | NEGATIVE (-ve)               |  |
| SUGAR                         |                          | Negative          |               | NEGATIVE (-ve)               |  |
|                               | TANCE SPECTROPHOTOMETRY  |                   |               |                              |  |
| DH                            | TANCE SPECTROPHOTOMETRY  | 5.5               |               | 5.0 - 7.5                    |  |
| BILIRUBIN                     |                          | Negative          |               | NEGATIVE (-ve)               |  |
| -                             | TANCE SPECTROPHOTOMETRY  |                   |               |                              |  |
| NITRITE                       | TANCE SPECTROPHOTOMETRY. | Negative          |               | NEGATIVE (-ve)               |  |
| JROBILINOGEN                  |                          | Normal            | EU/dL         | 0.2 - 1.0                    |  |
| by DIP STICK/REFLEC           | TANCE SPECTROPHOTOMETRY  |                   |               |                              |  |
| KETONE BODIES                 | TANCE SPECTROPHOTOMETRY  | Negative          |               | NEGATIVE (-ve)               |  |
| BLOOD                         |                          | Negative          |               | NEGATIVE (-ve)               |  |
| by DIP STICK/REFLEC           | TANCE SPECTROPHOTOMETRY  | NEGATIVE (-ve)    |               |                              |  |
| ASCORBIC ACID                 |                          |                   |               | NEGATIVE (-ve)               |  |

MICROSCOPIC EXAMINATION



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









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

|  | : Mr. MANI LAL   |                         |              |                               |
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|  |  |                         |              |                               |
|  |  |                         |              |                               |
| Test Name  |  | Value                   | Unit         | Biological Reference interval |
| RED BLOOD CELLS (  | RBCs)<br>CENTRIFUGED URINARY SEDIMENT                        | Value<br>NEGATIVE (-ve) | Unit<br>/HPF | Biological Reference interval |
| RED BLOOD CELLS (<br>by MICROSCOPY ON<br>PUS CELLS   |  |                         |              | -                             |
| RED BLOOD CELLS (<br>by MICROSCOPY ON<br>PUS CELLS<br>by MICROSCOPY ON<br>EPITHELIAL CELLS                                 | CENTRIFUGED URINARY SEDIMENT                                 | NEGATIVE (-ve)          | /HPF         | 0 - 3                         |
| RED BLOOD CELLS (<br>by MICROSCOPY ON<br>PUS CELLS<br>by MICROSCOPY ON<br>EPITHELIAL CELLS<br>by MICROSCOPY ON<br>CRYSTALS | CENTRIFUGED URINARY SEDIMENT<br>CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve)<br>5-6   | /HPF<br>/HPF | 0 - 3<br>0 - 5                |

| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |  |
|---|--|
| CASTS   |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |  |
| BACTERIA                                      |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |  |

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





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NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT