



|                                 | <b>Dr. Vinay Chop</b><br>MD (Pathology & Mi<br>Chairman & Consult | Microbiology) MD (Pathology) |                          |  |
|---------------------------------|---|------------------------------|--------------------------|--|
| NAME                            | : Mr. NARINDER KUMAR  |                              |                          |  |
| AGE/ GENDER                     | : 85 YRS/MALE   |                              | PATIENT ID               | : 1598937  |
| COLLECTED BY                    | : SURJESH   |                              | REG. NO./LAB NO.         | : 012409020026   |
| <b>REFERRED BY</b>              | :   |                              | <b>REGISTRATION DATE</b> | : 02/Sep/2024 10:11 AM   |
| BARCODE NO.                     | : 01516159  |                              | <b>COLLECTION DATE</b>   | : 02/Sep/2024 10:17AM  |
| CLIENT CODE.                    | : KOS DIAGNOSTIC LAB  |                              | REPORTING DATE           | : 02/Sep/2024 10:26AM  |
| CLIENT ADDRESS                  | : 6349/1, NICHOLSON ROAD, AM                                      | BALA CANTT                   |                          |  |
| Test Name                       |   | Value                        | Unit                     | Biological Reference interval                                    |
|                                 | SWA   | STHYA WI                     | ELLNESS PANEL: D         |  |
|                                 | CO  | MPLETE BLO                   | OOD COUNT (CBC)          |  |
| RED BLOOD CELLS (RB             | CS) COUNT AND INDICES   |                              |                          |  |
| HAEMOGLOBIN (HB)                |   | 11.5 <sup>L</sup>            | gm/dL                    | 12.0 - 17.0  |
| RED BLOOD CELL (RBC             | ) COUNT<br>CUSING, ELECTRICAL IMPEDENCE                           | 4.01                         | Millions/cr              | nm 3.50 - 5.00   |
| PACKED CELL VOLUME              |   | 36.5 <sup>L</sup>            | %                        | 40.0 - 54.0  |
| MEAN CORPUSCULAR                |   | 91.1                         | fL                       | 80.0 - 100.0   |
| MEAN CORPUSCULAR                | HAEMOGLOBIN (MCH)   | 28.7                         | pg                       | 27.0 - 34.0  |
| MEAN CORPUSCULAR                | TOMATED HEMATOLOGY ANALYZER<br>HEMOGLOBIN CONC. (MCHC)            | 31.5 <sup>L</sup>            | g/dL                     | 32.0 - 36.0  |
| <b>RED CELL DISTRIBUTIO</b>     |   | 13.8                         | %                        | 11.00 - 16.00  |
| RED CELL DISTRIBUTIO            |   | 46.8                         | fL                       | 35.0 - 56.0  |
| MENTZERS INDEX<br>by CALCULATED | TOMATED HEMATOLOGY ANALYZER                                       | 22.72                        | RATIO                    | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0  |
| GREEN & KING INDEX              |   | 31.37                        | RATIO                    | BETA THALASSEMIA TRAIT:<= 65.0<br>IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CELLS (             | WBCS)   |                              |                          | INON DELIGENCE ANEIVIA. > 03.0                                   |
| TOTAL LEUCOCYTE CO              |   | 5980                         | /cmm                     | 4000 - 11000   |
| NUCLEATED RED BLOC              |   | NIL                          |                          | 0.00 - 20.00   |
| NUCLEATED RED BLOC              | DD CELLS (nRBCS) %  | NIL                          | %                        | < 10 %   |
| •                               | TOMATED HEMATOLOGY ANALYZER                                       |                              |                          |  |
| DIFFERENTIAL LEUCOU             |   |                              |                          |  |

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





|  | <b>Dr. Vinay Chop</b><br>MD (Pathology & M<br>Chairman & Consult                       | icrobiology) | <b>Dr. Yugam</b><br>MD (I<br>CEO & Consultant F | Pathology)                    |
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|  |  |              |   |                               |
| Test Name                              |  | Value        | Unit  | Biological Reference interval |
|  | Y BY SF CUBE & MICROSCOPY  | 36           | %   | 20 - 40                       |
| EOSINOPHILS                            | Y BY SF CUBE & MICROSCOPY  | 4            | %   | 1 - 6                         |
| MONOCYTES                              |  | 7            | %   | 2 - 12                        |
| BASOPHILS                              | by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY<br>BASOPHILS                                 |              | %   | 0 - 1                         |
|  | Y BY SF CUBE & MICROSCOPY  | 0            |   |                               |
| ABSOLUTE LEUKOCY                       | YTES (WBC) COUNT   |              |   |                               |
| ABSOLUTE NEUTRO                        |  | 3169         | /cmm  | 2000 - 7500                   |
| ABSOLUTE LYMPHO                        | ey by sf cube & microscopy<br>ICYTE COUNT  | 2153         | /cmm  | 800 - 4900                    |
| by FLOW CYTOMETR                       | Y BY SF CUBE & MICROSCOPY  |              |   |                               |
|  | PHIL COUNT<br>BY BY SF CUBE & MICROSCOPY   | 239          | /cmm  | 40 - 440                      |
| ABSOLUTE MONOCY                        |  | 419          | /cmm  | 80 - 880                      |
| -                                      | Y BY SF CUBE & MICROSCOPY  |              |   |                               |
|  | IL COUNT<br>by by sf cube & microscopy   | 0            | /cmm  | 0 - 110                       |
| •                                      | HER PLATELET PREDICTIVE MARKE  | RS.          |   |                               |
| PLATELET COUNT (P                      | PLT)   | 242000       | /cmm  | 150000 - 450000               |
| by HYDRO DYNAMIC<br>PLATELETCRIT (PCT) | FOCUSING, ELECTRICAL IMPEDENCE   | 0.24         | %   | 0.10 - 0.36                   |
| • •                                    | FOCUSING, ELECTRICAL IMPEDENCE   | 0.24         | 70  | 0.10-0.30                     |
| MEAN PLATELET VO                       |  | 10           | fL  | 6.50 - 12.0                   |
| PLATELET LARGE CE                      | by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE<br>PLATELET LARGE CELL COUNT (P-LCC)   |              | /cmm  | 30000 - 90000                 |
| by HYDRO DYNAMIC<br>PLATELET LARGE CE  | FOCUSING, ELECTRICAL IMPEDENCE   | 23.9         | %   | 11.0 - 45.0                   |
|  | FOCUSING, ELECTRICAL IMPEDENCE   | 23.7         | 70  | 11.0 - 43.0                   |
| by HYDRO DYNAMIC                       | TION WIDTH (PDW)<br><i>focusing, electrical impedence</i><br>JCTED ON EDTA WHOLE BLOOD | 16.2         | %   | 15.0 - 17.0                   |
| noil. ilsi conde                       |  |              |   |                               |



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|------------------|---|------------------|---------------------|---------------------|-------------------|--|
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| BARCODE NO.      | :01516159   |                  | COLLECTION DATE     | : 02/Sep/2024 10:17 |                   |  |
| CLIENT CODE.     | : KOS DIAGNOSTIC LAB                                |                  | REPORTING DATE      | : 02/Sep/2024 02:06 |                   |  |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, A                         |                  |                     |                     |                   |  |
| Test Name        |   | Value            | Unit                | Biological R        | eference interval |  |
|                  | GLY   | COSYLATED HA     | EMOGLOBIN (HBA1C    |                     |                   |  |
|                  | MOGLOBIN (HbA1c):                                   | 6.3              | %                   | 4.0 - 6.4           |                   |  |
| ESTIMATED AVERAG | · · · · · · · · · · · · · · · · · · ·               | 134.11           | mg/dL               | 60.00 - 140.        | 00                |  |
|                  | AS PER AMERICAN                                     | DIABETES ASSOCIA | TION (ADA):         |                     |                   |  |
|                  | REFERENCE GROUP                                     |                  | COSYLATED HEMOGLOGI | B (HBAIC) in %      |                   |  |
| Non di           | abetic Adults >= 18 years                           | 1                | <5.7                |                     |                   |  |
|                  | t Risk (Prediabetes)                                |                  | 5.7 – 6.4           |                     |                   |  |
| D                | iagnosing Diabetes                                  |                  | >= 6.5              |                     |                   |  |
|                  |   |                  | Age > 19 Years      |                     |                   |  |
| <b>T</b> I       |   |                  | of Therapy:         | < 7.0               |                   |  |
| Therapeut        | ic goals for glycemic control                       | Actions          | Suggested:          | >8.0                |                   |  |
|                  |   |                  | Age < 19 Years      |                     |                   |  |
|                  |   | Goal c           | of therapy:         | <7.5                |                   |  |

### 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 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 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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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|---|--|--|--|-------------------------------|
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| LIENT CODE.   | : KOS DIAGNOSTIC LAB   |  | <b>REPORTING DATE</b>  | : 02/Sep/2024 10:34AM         |
| LIENT ADDRESS   | : 6349/1, NICHOLSON ROAD,  | AMBALA CANTT   |  |                               |
| Fest Name   |  | Value  | Unit   | Biological Reference interval |
|   | FRVTH  |  | MENTATION RATE (ESI  | 5)                            |
|   | MENTATION RATE (ESR)   | 16   | mm/1st h   |                               |
| as sickle cells in sick<br>NOTE:<br>1. ESR and C - reactiv<br>2. Generally, ESR dog<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 | le cell anaemia) also lower the E<br>re protein (C-RP) are both marker<br>es not change as rapidly as does (<br>I by as many other factors as is ES<br>ted, it is typically a result of two t<br>ave a higher ESR, and menstruatio | SR.<br>cRP, either at the<br>cRP, either at the<br>cR, making it a bet<br>types of proteins,<br>on and pregnancy | start of inflammation or as<br>ter marker of inflammation<br>globulins or fibrinogen.<br>can cause temporary eleva | ı.                            |
|   |  |  |  |                               |
|   |  | l  | Hobra  |                               |



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|--|---|----------------|--------------------------|-------------------------------|--|
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| CLIENT CODE.   | ENT CODE. : KOS DIAGNOSTIC LAB                    |                | REPORTING DATE           | : 02/Sep/2024 11:10AM         |  |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD                          | , AMBALA CANTT |                          |                               |  |
| Test Name  |   | Value          | Unit                     | Biological Reference interval |  |
|  | CLIN  | IICAL CHEMIS   | STRY/BIOCHEMISTR         | Y                             |  |
|  |   | GLUCOSI        | E FASTING (F)            |                               |  |
| GLUCOSE FASTING (F): PLASMA 81.02<br>by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) |   | 81.02          | mg/dL                    | NORMAL: < 100.0               |  |

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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|   |  | Chopra<br>gy & Microbiology)<br>Consultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)  |
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| Test Name                                 |  | Value  | Unit                                | Biological Reference interval  |
|   |  | LIPID PROFILE :  | BASIC                               |  |
| CHOLESTEROL TOTA<br>by CHOLESTEROL O      |  | 205.13 <sup>H</sup>                                    | mg/dL                               | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.<br>HIGH CHOLESTEROL: > OR = 240  |
| TRIGLYCERIDES: SEF<br>by GLYCEROL PHOSE   | RUM<br>PHATE OXIDASE (ENZYMATIC)             | 146.83   | mg/dL                               | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                |
| HDL CHOLESTEROL (<br>by SELECTIVE INHIBIT |  | 48.5   | mg/dL                               | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0  |
| LDL CHOLESTEROL: 5<br>by CALCULATED, SPE  |  | 127.26   | mg/dL                               | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTE<br>by CALCULATED, SPI    |  | 156.63 <sup>H</sup>                                    | mg/dL                               | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL<br>by CALCULATED, SPE    |  | 29.37  | mg/dL                               | 0.00 - 45.00   |
| TOTAL LIPIDS: SERU<br>by CALCULATED, SPE  | M  | 557.09   | mg/dL                               | 350.00 - 700.00  |
| CHOLESTEROL/HDL<br>by CALCULATED, SPE     |  | 4.23   | 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: SEF<br>by CALCULATED, SPE  |  | 2.62   | RATIO                               | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0  |

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| Test Name         |                         | Value   | Unit                                | Biological Reference interval |
| TRIGLYCERIDES/HDI |                         | 3.03  | 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 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. NARINDER KUMAR AGE/ GENDER : 85 YRS/MALE **PATIENT ID** :1598937 **COLLECTED BY** : SURJESH :012409020026 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :02/Sep/2024 10:11 AM **BARCODE NO.** :01516159 **COLLECTION DATE** :02/Sep/2024 10:17AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :02/Sep/2024 11:10AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.51 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.16 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.35 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 20.9 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 19.6 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 1.07 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 103.46 U/L 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL U/L GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 32.41 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY **TOTAL PROTEINS: SERUM** gm/dL 6.20 - 8.00 5.59<sup>L</sup> by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM gm/dL 3.50 - 5.50 3.31<sup>L</sup> by BROMOCRESOL GREEN GLOBULIN: SERUM 2.28<sup>L</sup> gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

## 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) |

1.45





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 care@koshealthcare.com

RATIO

1.00 - 2.00



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





|                    | Dr. Vinay Chopr<br>MD (Pathology & Micr<br>Chairman & Consultar | robiology) ME            | m Chopra<br>D (Pathology)<br>nt Pathologist |
|--------------------|---|--------------------------|---|
| NAME               | : Mr. NARINDER KUMAR  |                          |   |
| AGE/ GENDER        | : 85 YRS/MALE   | PATIENT ID               | : 1598937                                   |
| COLLECTED BY       | : SURJESH   | <b>REG. NO./LAB NO.</b>  | : 012409020026                              |
| <b>REFERRED BY</b> | :   | <b>REGISTRATION DATE</b> | : 02/Sep/2024 10:11 AM                      |
| BARCODE NO.        | :01516159   | COLLECTION DATE          | : 02/Sep/2024 10:17AM                       |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB  | <b>REPORTING DATE</b>    | : 02/Sep/2024 11:10AM                       |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMB                                   | ALA CANTT                |   |
|                    |   |                          | /   |
| Test Name          |   | Value Unit               | <b>Biological Reference interval</b>        |

#### 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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|   | Dr. Vinay Ch<br>MD (Pathology &<br>Chairman & Con |               | Dr. Yugam<br>MD (<br>CEO & Consultant | (Pathology)                   |
|---|---|---------------|---------------------------------------|-------------------------------|
| NAME  | : Mr. NARINDER KUMAR                              |               |                                       |                               |
| AGE/ GENDER   | : 85 YRS/MALE                                     | PA            | ATIENT ID                             | : 1598937                     |
| COLLECTED BY  | : SURJESH   | RI            | EG. NO./LAB NO.                       | : 012409020026                |
| <b>REFERRED BY</b>                                    | :   | RI            | EGISTRATION DATE                      | : 02/Sep/2024 10:11 AM        |
| BARCODE NO.   | : 01516159  | CC            | DLLECTION DATE                        | : 02/Sep/2024 10:17AM         |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB                              | RI            | EPORTING DATE                         | : 02/Sep/2024 11:52AM         |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD,                         | AMBALA CANTT  |                                       |                               |
|   |   |               |                                       |                               |
| Test Name   |   | Value         | Unit                                  | Biological Reference interval |
|   | кі  | ONEY FUNCTION | TEST (COMPLETE)                       |                               |
| UREA: SERUM   |   | 44.76         | mg/dL                                 | 10.00 - 50.00                 |
| -   | IATE DEHYDROGENASE (GLDH)                         |               |                                       |                               |
| CREATININE: SERUM<br>by ENZYMATIC, SPECTROPHOTOMETERY |   | 1.22          | mg/dL                                 | 0.40 - 1.40                   |
| BLOOD UREA NITROGEN (BUN): SERUM                      |   | 20.92         | mg/dL                                 | 7.0 - 25.0                    |
| by CALCULATED, SPECTROPHOTOMETRY                      |   |               |                                       |                               |
|   | OGEN (BUN)/CREATININE                             | 17.15         | RATIO                                 | 10.0 - 20.0                   |
| RATIO: SERUM<br>by CALCULATED, SPE                    | ECTROPHOTOMETRY                                   |               |                                       |                               |
| UREA/CREATININE F                                     |   | 36.69         | RATIO                                 |                               |
| by CALCULATED, SPE                                    | ECTROPHOTOMETRY                                   |               |                                       |                               |
| URIC ACID: SERUM<br>by URICASE - OXIDAS               |   | 5.77          | mg/dL                                 | 3.60 - 7.70                   |
| CALCIUM: SERUM  | SE FEROXIDASE                                     | 9.73          | mg/dL                                 | 8.50 - 10.60                  |
| by ARSENAZO III, SPE                                  |   |               |                                       |                               |
| PHOSPHOROUS: SER                                      | RUM<br>DATE, SPECTROPHOTOMETRY                    | 3.83          | mg/dL                                 | 2.30 - 4.70                   |
| ELECTROLYTES  | DATE, SPECIROPHOTOMETRY                           |               |                                       |                               |
| Sodium: Serum   |   | 138.5         | mmol/L                                | 135.0 - 150.0                 |
| by ISE (ION SELECTIV                                  | (E ELECTRODE)                                     | 100.0         | THING!/ E                             | 100.0 100.0                   |
| POTASSIUM: SERUM                                      |   | 4.32          | mmol/L                                | 3.50 - 5.00                   |
| by ISE (ION SELECTIVE ELECTRODE)<br>CHLORIDE: SERUM   |   | 103.88        | mmol/L                                | 90.0 - 110.0                  |
| CHLORIDE: SERUIVI<br>by ISE (ION SELECTIVE ELECTRODE) |   | 103.00        | THITION E                             | 70.0 - 110.0                  |
| ESTIMATED GLOME                                       | RULAR FILTERATION RATE                            |               |                                       |                               |
|   | RULAR FILTERATION RATE                            | 58.1          |                                       |                               |
| (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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





| 9001.2008 CENT   |   |  |   |  |  |                          |
|--|---|--|---|--|--|--------------------------|
|  | М   | <b>Pr. Vinay Chopra</b><br>D (Pathology & Microl<br>hairman & Consultant   |   |  | m <b>Chopra</b><br>D (Pathology)<br>nt Pathologist |                          |
| IAME   | : Mr. NARINDE   | R KUMAR  |   |  |  |                          |
| GE/ GENDER   | : 85 YRS/MALE   |  | РАТ   | IENT ID                                  | : 1598937  |                          |
| OLLECTED BY  | : SURJESH   |  | REG   | . NO./LAB NO.                            | :012409020026                                      |                          |
| EFERRED BY   | ·   |  |   | ISTRATION DATE                           | : 02/Sep/2024 10:1                                 | 1 ΔΜ                     |
| ARCODE NO.   | : 01516159  |  |   | LECTION DATE                             | : 02/Sep/2024 10:1                                 |                          |
| LIENT CODE.  | : KOS DIAGNOS   |  |   | ORTING DATE                              | : 02/Sep/2024 10:1                                 |                          |
|  |   |  |   | UKTING DATE                              | . 02/ Sep/ 2024 11.5                               | ZAW                      |
| CLIENT ADDRESS   | : 6349/1, NICH  | OLSON ROAD, AMBAI  | LA CAN I I  |  |  |                          |
| est Name   |   |  | /alue   | Unit                                     | Biological   | Reference interval       |
| <ol> <li>Inherited hyperam</li> <li>SIADH (syndrome of<br/>Beregnancy.</li> <li>Pregnancy.</li> <li>Phenacimide thera</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>Should produce an in</li> <li>Cephalosporin ther</li> <li>ESTIMATED GLOMERL</li> </ol> | nd starvation.<br>e.<br>ecreased urea synt<br>(urea rather than o<br>monemias (urea is<br>of inappropiate an<br><b>10:1) WITH INCREA</b><br>upy (accelerates co<br>eleases muscle cro<br>who develop rena<br>sis (acetoacetate<br>creased BUN/crea<br>rapy (interferes wi<br>JLAR FILTERATION | creatinine diffuses ou<br>s virtually absent in b<br>tidiuretic harmone) di<br>SED CREATININE:<br>nversion of creatine t<br>eatinine).<br>Il failure.<br>causes false increase<br>tinine ratio).<br>th creatinine measure<br>RATE: | lood).<br>ue to tubular se<br>to creatinine).<br>in creatinine w<br>ement). | ecretion of urea.<br>ith certain methodo |  | al ratio when dehydratio |
| CKD STAGE  |   | DESCRIPTION  | GFR ( mL/m  |  | SSOCIATED FINDINGS                                 | ]                        |
| G1   |   | al kidney function   | >9  |  | No proteinuria                                     | 4                        |
| G2   |   | ney damage with mal or high GFR  | >9  |  | Presence of Protein ,<br>bumin or cast in urine    |                          |
| G3a  |   | decrease in GFR  | 60  |  |  | 1                        |
| C2h  |   | ato docroaso in CEP  | 20  |  |  | 1                        |

| Severe decrease in |
|--------------------|
| Kidney failure     |

Moderate decrease in GFR

decrease in GFR

G3b

G4

G5

Г

30-59

15-29

<15

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|                | Dr. Vinay Chopra<br>MD (Pathology & Micro<br>Chairman & Consultant | biology) MD              | m Chopra<br>D (Pathology)<br>ht Pathologist |
|----------------|--|--------------------------|---|
| NAME           | : Mr. NARINDER KUMAR   |                          |   |
| AGE/ GENDER    | : 85 YRS/MALE  | PATIENT ID               | : 1598937                                   |
| COLLECTED BY   | : SURJESH  | <b>REG. NO./LAB NO.</b>  | : 012409020026                              |
| REFERRED BY    | :  | <b>REGISTRATION DATE</b> | : 02/Sep/2024 10:11 AM                      |
| BARCODE NO.    | : 01516159   | COLLECTION DATE          | :02/Sep/2024 10:17AM                        |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB   | <b>REPORTING DATE</b>    | : 02/Sep/2024 11:52AM                       |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBA                                     | LA CANTT                 |   |
|                |  |                          |   |
| Test Name      |  | Value Unit               | <b>Biological Reference interval</b>        |

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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|---|---|---|---|---|
| NAME  | : Mr. NARINDER KUMAR  |   |   |   |
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| COLLECTED BY  | : SURJESH   |   | NO./LAB NO.   | : 012409020026  |
|   | SURJESH   |   |   |   |
| REFERRED BY   | :   |   | STRATION DATE   | : 02/Sep/2024 10:11 AM  |
| BARCODE NO.   | : 01516159  | COL   | LECTION DATE  | : 02/Sep/2024 10:17AM   |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB  | REP   | ORTING DATE   | : 02/Sep/2024 12:08PM   |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD,   | AMBALA CANTT  |   |   |
| Test Name   |   | Value   | Unit  | Biological Reference interval   |
|   | VIT   | VITAMI<br>AMIN D/25 HYDRO   |   |   |
|   | OXY VITAMIN D3): SERUM<br>ESCENCE IMMUNOASSAY)  | 13.3 <sup>L</sup>   | ng/mL   | DEFICIENCY: < 20.0<br>INSUFFICIENCY: 20.0 - 30.0<br>SUFFICIENCY: 30.0 - 100.0<br>TOXICITY: > 100.0  |
| <u>DEFICI</u>   | ENT.  | < 20  | n   | g/mL  |
| INSUFFI   |   | 21 - 29   |   | g/mL  |
| PREFFERED   |   | 30 - 100  |   | g/mL  |
| conversion of 7- dihvd<br>2.25-OHVitamin D rep<br>tissue and tiahtly bour<br>3.Vitamin D plays a pri<br>phosphate reabsorptic<br>4.Severe deficiency ma<br><b>DECREASED:</b><br>1.Lack of sunshine exp<br>2.Inadequate intake, n<br>3.Depressed Hepatic V<br>4.Secondarv to advanc<br>5.Osteoporosis and Se<br>6.Enzyme Inducing dru<br><b>INCREASED:</b><br>1. Hypervitaminosis D<br>severe hypercalcemia a<br><b>CAUTION</b> : Replacemen<br>hypervitaminosis D | rocholecalciferol to Vitamin D3<br>presents the main body resevoi<br>nd by a transport protein while<br>imary role in the maintenance<br>on, skeletal calcium deposition,<br>ay lead to failure to mineralize<br>osure.<br>malabsorption (celiac disease)<br>'itamin D 25- hydroxylase activi<br>ced Liver disease<br>condary Hyperparathroidism (N<br>ugs: anti-epileptic drugs like phe<br>is Rare, and is seen only after p<br>and hyperphophatemia.<br>It therapy in deficient individua<br>advividuals as compare to whites, | a in the skin upon Ultra<br>r and transport form o<br>in circulation.<br>of calcium homeostati<br>calcium mobilization,<br>newly formed osteoid<br>ty<br>Mild to Moderate defic<br>enytoin, phenobarbital<br>rolonged exposure to<br>Is must be monitored b | violet exposure.<br>f Vitamin D and trans<br>s. It promotes calciun<br>mainly regulated by p<br>n bone, resulting in r<br>ency)<br>and carbamazepine,<br>extremely high doses<br>y periodic assessmen | lecalciferol (from animals, Vitamin D3), or by<br>port form of Vitamin D, being stored in adipose<br>in absorption, renal calcium absorption and<br>barathyroid 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> |
|   |   |   |   |   |





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|---|---|-----------------|-------------------------------------|-------------------------------|
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| COLLECTED BY  | : SURJESH   | REG.            | NO./LAB NO.                         | : 012409020026                |
| <b>REFERRED BY</b>  |   | REGI            | STRATION DATE                       | : 02/Sep/2024 10:11 AM        |
| BARCODE NO.   | : 01516159  |                 | ECTION DATE                         | : 02/Sep/2024 10:17AM         |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB                                      |                 | DRTING DATE                         | : 02/Sep/2024 10:41AM         |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, A                               |                 |                                     |                               |
|   |   |                 |                                     |                               |
| Test Name   |   | Value           | Unit                                | Biological Reference interval |
|   |   | CLINICAL PAT    | HOLOGY                              |                               |
|   |   | OUTINE & MICROS |                                     | ION                           |
| PHYSICAL EXAMINA  |   |                 |                                     |                               |
|   |   | 10              |                                     |                               |
| QUANTITY RECIEVE  |   | 10              | ml                                  |                               |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY<br>COLOUR        |   | AMBER YELLOW    | I                                   | PALE YELLOW                   |
|   | TANCE SPECTROPHOTOMETRY                                   |                 |                                     |                               |
|   | TANCE SPECTROPHOTOMETRY                                   | CLEAR           |                                     | CLEAR                         |
| SPECIFIC GRAVITY  | TANGE SI LOTIOI HOTOMETICI                                | 1.01            |                                     | 1.002 - 1.030                 |
| by DIP STICK/REFLEC   | TANCE SPECTROPHOTOMETRY                                   |                 |                                     |                               |
| CHEMICAL EXAMINA  | ATION   |                 |                                     |                               |
| REACTION  |   | NEUTRAL         |                                     |                               |
| by DIP STICK/REFLEC<br>PROTEIN                              | TANCE SPECTROPHOTOMETRY                                   | Negative        |                                     | NEGATIVE (-ve)                |
|   | TANCE SPECTROPHOTOMETRY                                   | Negative        |                                     | NEGATIVE (-ve)                |
| SUGAR   |   | Negative        |                                     | NEGATIVE (-ve)                |
|   | TANCE SPECTROPHOTOMETRY                                   | 7               |                                     |                               |
| pH<br>by DIP STICK/REFLEC                                   | TANCE SPECTROPHOTOMETRY                                   | 7               |                                     | 5.0 - 7.5                     |
| BILIRUBIN   |   | Negative        |                                     | NEGATIVE (-ve)                |
| •   | TANCE SPECTROPHOTOMETRY                                   |                 |                                     |                               |
| NITRITE   | TANCE SPECTROPHOTOMETRY                                   | Negative        |                                     | NEGATIVE (-ve)                |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.<br>UROBILINOGEN |   | 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                                   |                 |                                     |                               |
| ASCORBIC ACID   |   | NEGATIVE (-ve)  |                                     | NEGATIVE (-ve)                |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY                  |   |                 |                                     |                               |

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

| NAME   | : Mr. NARINDER KUMAR                  |                                   |            |  |  |
|--|---------------------------------------|-----------------------------------|------------|--|--|
| AGE/ GENDER  | : 85 YRS/MALE                         | PATIENT                           | ID         | : 1598937                                      |  |
| COLLECTED BY   | : SURJESH                             | REG. NO./                         | 'LAB NO.   | : 012409020026                                 |  |
| <b>REFERRED BY</b>   | :                                     | REGISTR                           | ATION DATE | : 02/Sep/2024 10:11 AM                         |  |
| <b>BARCODE NO.</b> : 01516159 <b>CLIENT CODE.</b> : KOS DIAGNOSTIC LAB |                                       | COLLECTION DATE<br>REPORTING DATE |            | : 02/Sep/2024 10:17AM<br>: 02/Sep/2024 10:41AM |  |
|  |                                       |                                   |            |  |  |
|  |                                       |                                   |            |  |  |
| Test Name  |                                       | Value                             | Unit       | Biological Reference interval                  |  |
| RED BLOOD CELLS (I   | RBCs)<br>CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve)                    | /HPF       | 0 - 3  |  |
| PUS CELLS<br>by MICROSCOPY ON  | CENTRIFUGED URINARY SEDIMENT          | 3-4                               | /HPF       | 0 - 5  |  |
| EPITHELIAL CELLS<br>by MICROSCOPY ON                                   | CENTRIFUGED URINARY SEDIMENT          | 1-2                               | /HPF       | ABSENT   |  |
| CRYSTALS   |                                       | NEGATIVE (-ve)                    |            |  |  |
| BY MICROSCOPY ON   | CENTRIFUGED URINARY SEDIMENT          | NEGATIVE (-ve)                    |            | NEGATIVE (-ve)                                 |  |

NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT BACTERIA

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT



am

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

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



NEGATIVE (-ve)

NEGATIVE (-ve)

ABSENT





|  | М               | r. Vinay Chopra<br>D (Pathology & Microbiolog<br>nairman & Consultant Patho | y) ME                    | m Chopra<br>D (Pathology)<br>ht Pathologist |  |
|--|-----------------|---|--------------------------|---|--|
| NAME   | : Mr. NARINDE   | R KUMAR   |                          |   |  |
| AGE/ GENDER                                      | : 85 YRS/MALE   |   | PATIENT ID               | : 1598937                                   |  |
| COLLECTED BY                                     | : SURJESH       |   | <b>REG. NO./LAB NO.</b>  | : 012409020026                              |  |
| <b>REFERRED BY</b>                               | :               |   | <b>REGISTRATION DATE</b> | :02/Sep/2024 10:11 AM                       |  |
| BARCODE NO.                                      | :01516159       |   | COLLECTION DATE          | : 02/Sep/2024 10:17AM                       |  |
| CLIENT CODE.                                     | : KOS DIAGNOS   | FIC LAB   | <b>REPORTING DATE</b>    | : 02/Sep/2024 12:54PM                       |  |
| CLIENT ADDRESS                                   | : 6349/1, NICHO | DLSON ROAD, AMBALA CA   | NTT                      |   |  |
| Test Name  |                 | Value   | Unit                     | Biological Reference interval               |  |
|  |                 | MICROALBUMIN/CRE  | ATININE RATIO - RANDOI   | M URINE                                     |  |
| MICROALBUMIN: RANDOM URINE                       |                 | 15.99   | mg/L                     | 0 - 25                                      |  |
| CREATININE: RANDOM URINE<br>by SPECTROPHOTOMETRY |                 | 52.71   | mg/dL                    | 20 - 320                                    |  |
| MICROALBUMIN/CI<br>RANDOM URINE                  |                 | - 30.34   | H mg/g                   | 0 - 30                                      |  |
| by SPECTROPHOTOI                                 |                 |   | 0.00                     |   |  |
|  | NORMAL:         | mg/L  | 0 - 30                   |   |  |
| INTERPRETATION:-                                 |                 | mg/L<br>mg/L  | 30 - 30                  |   |  |

Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction. 2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure. 3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients. 4. Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.

5.Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension. 6.Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction. NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/d) OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.

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





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