



KOS Diagnostic Lab (A Unit of KOS Healthcare)

|                                           | Dr. Vinay Chopra<br>MD (Pathology & Micr<br>Chairman & Consultar | obiology)         |                          | (Pathology)                                                           |
|-------------------------------------------|------------------------------------------------------------------|-------------------|--------------------------|-----------------------------------------------------------------------|
| NAME                                      | : Mrs. URMIL DHAWAN                                              |                   |                          |                                                                       |
| AGE/ GENDER                               | : 74 YRS/FEMALE                                                  |                   | PATIENT ID               | : 1626739                                                             |
| COLLECTED BY                              | :                                                                |                   | REG. NO./LAB NO.         | :042411240002                                                         |
| REFERRED BY                               | :                                                                |                   | <b>REGISTRATION DATE</b> | : 24/Nov/2024 09:15 AM                                                |
| BARCODE NO.                               | : A1259951                                                       |                   | COLLECTION DATE          | : 24/Nov/2024 12:10PM                                                 |
| CLIENT CODE.<br>CLIENT ADDRESS            | : KOS DIAGNOSTIC SHAHBAD<br>: 6349/1, NICHOLSON ROAD, AMB/       | ALA CANTT         | REPORTING DATE           | : 24/Nov/2024 12:19PM                                                 |
| Test Name                                 |                                                                  | Value             | Unit                     | Biological Reference interval                                         |
|                                           | SWASTH                                                           | IYA WEI           | LINESS PANEL: 15.        | .0                                                                    |
|                                           | COMP                                                             | PLETE BL          | OOD COUNT (CBC)          |                                                                       |
| RED BLOOD CELLS                           | (RBCS) COUNT AND INDICES                                         |                   |                          |                                                                       |
| IAEMOGLOBIN (H)<br>by CALORIMETRIC        | 3)                                                               | 13                | gm/dL                    | 12.0 - 16.0                                                           |
| ED BLOOD CELL (                           | RBC) COUNT<br>OCUSING, ELECTRICAL IMPEDENCE                      | 4.59              | Millions                 | /cmm 3.50 - 5.00                                                      |
| ACKED CELL VOLU                           |                                                                  | 41.1              | %                        | 37.0 - 50.0                                                           |
| IEAN CORPUSCULA                           | AR VOLUME (MCV)<br>utomated hematology analyzer                  | 89.5              | fL                       | 80.0 - 100.0                                                          |
|                                           | AR HAEMOGLOBIN (MCH)<br>utomated hematology analyzer             | 28.3              | pg                       | 27.0 - 34.0                                                           |
| IEAN CORPUSCUL                            | AR HEMOGLOBIN CONC. (MCHC)<br>UTOMATED HEMATOLOGY ANALYZER       | 31.6 <sup>L</sup> | g/dL                     | 32.0 - 36.0                                                           |
|                                           | JTION WIDTH (RDW-CV)<br>utomated hematology analyzer             | 15.4              | %                        | 11.00 - 16.00                                                         |
|                                           | UTION WIDTH (RDW-SD)<br>utomated hematology analyzer             | 50.8              | fL                       | 35.0 - 56.0                                                           |
| MENTZERS INDEX<br>by CALCULATED           |                                                                  | 19.5              | RATIO                    | BETA THALASSEMIA TRAIT: <<br>13.0<br>IRON DEFICIENCY ANEMIA:<br>>13.0 |
| GREEN & KING IND                          |                                                                  | 30                | RATIO                    | BETA THALASSEMIA TRAIT:<<br>65.0<br>IRON DEFICIENCY ANEMIA: ><br>65.0 |
| <b>NHITE BLOOD CEI</b><br>TOTAL LEUCOCYTE |                                                                  | 8740              | /cmm                     | 4000 - 11000                                                          |
| by FLOW CYTOMETRY                         | BY SF CUBE & MICROSCOPY                                          |                   | / chilli                 |                                                                       |
|                                           | LOOD CELLS (nRBCS)<br>T HEMATOLOGY ANALYZER                      | NIL               |                          | 0.00 - 20.00                                                          |
|                                           | LOOD CELLS (nRBCS) %<br>utomated hematology analyzer             | NIL               | %                        | < 10 %                                                                |
| Sy ORLOOLATED DY A                        | GI GWATED HEIVIATOLOGT AIVALTZER                                 |                   |                          |                                                                       |





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. URMIL DHAWAN **AGE/ GENDER** : 74 YRS/FEMALE **PATIENT ID** :1626739 **COLLECTED BY** :042411240002 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 24/Nov/2024 09:15 AM **BARCODE NO.** :A1259951 **COLLECTION DATE** :24/Nov/2024 12:10PM CLIENT CODE. : KOS DIAGNOSTIC SHAHBAD **REPORTING DATE** : 24/Nov/2024 12:19PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 56 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 28 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 7H EOSINOPHILS % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 9 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4894 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2447 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 612<sup>H</sup> /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 787 /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) 150000 - 450000 496000<sup>H</sup> /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.5<sup>H</sup> PLATELETCRIT (PCT) % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 137000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 27.711.0 - 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>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiolog<br>Chairman & Consultant Patho |                          | (Pathology)                          |
|---------------------|---------------------------------------------------------------------------------------|--------------------------|--------------------------------------|
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| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, AMBALA CA                                                   | ANTT                     |                                      |
| Test Name           | Value                                                                                 | e Unit                   | <b>Biological Reference interval</b> |





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|                  |                                            | logy & Microbiology)<br>& Consultant Pathologist | MD (F<br>CEO & Consultant F | Pathology)<br>Pathologist                     |
|------------------|--------------------------------------------|--------------------------------------------------|-----------------------------|-----------------------------------------------|
| NAME             | : Mrs. URMIL DHAWAN                        | Ι                                                |                             |                                               |
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| REFERRED BY      | :                                          | REG                                              | ISTRATION DATE              | : 24/Nov/2024 09:15 AM                        |
| BARCODE NO.      | : A1259949                                 | COL                                              | LECTION DATE                | : 24/Nov/2024 12:11PM                         |
| CLIENT CODE.     | : KOS DIAGNOSTIC SHAH                      | HBAD <b>REP</b>                                  | ORTING DATE                 | : 24/Nov/2024 01:15PM                         |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON R                      | OAD, AMBALA CANTT                                |                             |                                               |
| Test Name        |                                            | Value                                            | Unit                        | <b>Biological Reference interval</b>          |
|                  | CL                                         | INICAL CHEMISTRY                                 | Y/BIOCHEMISTI               | RY                                            |
|                  |                                            | GLUCOSE FAS                                      | STING (F)                   |                                               |
| CI LICOSE EASTIN | G (F): PLASMA<br>SE - PEROXIDASE (GOD-POD) | 106.9 <sup>H</sup>                               | mg/dL                       | NORMAL: < 100.0<br>PREDIABETIC: 100.0 - 125.0 |

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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.

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. 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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|                                         | Dr. Vinay Cho<br>MD (Pathology &<br>Chairman & Cons | Microbiology)       | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                                                                                          |
|-----------------------------------------|-----------------------------------------------------|---------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|
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| BARCODE NO.                             | : A1259950                                          | (                   | COLLECTION DATE                     | : 24/Nov/2024 12:11PM                                                                                |
| CLIENT CODE.                            | : KOS DIAGNOSTIC SHAHBAD                            | I                   | REPORTING DATE                      | : 24/Nov/2024 01:15PM                                                                                |
| CLIENT ADDRESS                          | : 6349/1, NICHOLSON ROAD, A                         | MBALA CANTT         |                                     |                                                                                                      |
| Test Name                               |                                                     | Value               | Unit                                | Biological Reference interval                                                                        |
|                                         |                                                     |                     | FILE : BASIC                        |                                                                                                      |
| CHOLESTEROL TO                          | TAL CEDIM                                           |                     |                                     | OPTIMAL: < 200.0                                                                                     |
| by CHOLESTEROL 10                       |                                                     | 228.82 <sup>H</sup> | mg/dL                               | BORDERLINE HIGH: 200.0 -<br>239.0<br>HIGH CHOLESTEROL: > OR =                                        |
|                                         |                                                     |                     |                                     | 240.0                                                                                                |
| TRIGLYCERIDES: S                        |                                                     | 186.39 <sup>H</sup> | mg/dL                               | OPTIMAL: < 150.0                                                                                     |
| by GLYCEROL PHOSE                       | PHATE OXIDASE (ENZYMATIC)                           |                     |                                     | BORDERLINE HIGH: 150.0 -<br>199.0                                                                    |
|                                         |                                                     |                     |                                     | HIGH: 200.0 - 499.0                                                                                  |
|                                         |                                                     |                     |                                     | VERY HIGH: $> OR = 500.0$                                                                            |
| HDL CHOLESTERO                          | L (DIRECT): SERUM                                   | 49.53               | mg/dL                               | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0                                                         |
| Sy OLLEOTIVE WWW.BIT                    |                                                     |                     |                                     | 60.0                                                                                                 |
|                                         |                                                     |                     |                                     | HIGH HDL: $> OR = 60.0$                                                                              |
| LDL CHOLESTERO                          |                                                     | 142.01 <sup>H</sup> | mg/dL                               | OPTIMAL: < 100.0                                                                                     |
| by CALCOLATED, SPE                      | CIROPHOTOMETRY                                      |                     |                                     | ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 -                                             |
|                                         |                                                     |                     |                                     | 159.0                                                                                                |
|                                         |                                                     |                     |                                     | HIGH: 160.0 - 189.0                                                                                  |
| NON HDL CHOLES                          | FFROI · SFRUM                                       | 179.29 <sup>H</sup> | mg/dL                               | VERY HIGH: > OR = 190.0<br>OPTIMAL: < 130.0                                                          |
| by CALCULATED, SPE                      |                                                     | 179.29              | ilig/ uL                            | ABOVE OPTIMAL: 130.0 - 159.0                                                                         |
|                                         |                                                     |                     |                                     | BORDERLINE HIGH: 160.0 -                                                                             |
|                                         |                                                     |                     |                                     | 189.0<br>HIGH: 190.0 - 219.0                                                                         |
|                                         |                                                     |                     |                                     | VERY HIGH: > OR = 220.0                                                                              |
| VLDL CHOLESTER                          |                                                     | 37.28               | mg/dL                               | 0.00 - 45.00                                                                                         |
| by CALCULATED, SPE<br>FOTAL LIPIDS: SEF |                                                     | 644.03              | mg/dL                               | 350.00 - 700.00                                                                                      |
| by CALCULATED, SPE                      | CTROPHOTOMETRY                                      | 044.03              |                                     | 330.00 - 700.00                                                                                      |
| CHOLESTEROL/HE<br>by CALCULATED, SPE    |                                                     | 4.62 <sup>H</sup>   | 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 |



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|                                        |                          | <b>hopra</b><br>& Microbiology)<br>onsultant Patholog |                          | (Pathology)                                                           |
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| CLIENT ADDRESS                         | : 6349/1, NICHOLSON ROAD | ), AMBALA CANT                                        | T                        |                                                                       |
| Test Name                              |                          | Value                                                 | Unit                     | <b>Biological Reference interval</b>                                  |
| LDL/HDL RATIO: S<br>by CALCULATED, SPE |                          | 2.87                                                  | RATIO                    | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H<br>by CALCULATED, SPE  | IDL RATIO: SERUM         | 3.76                                                  | 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.

 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.
 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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| Test Name                                        |                                                               | Value              | Unit                     | Biological Reference interval             |
|                                                  | LIVER                                                         | FUNCTION           | N TEST (COMPLETE)        |                                           |
| BILIRUBIN TOTAL<br>by DIAZOTIZATION, SI          | : SERUM<br>PECTROPHOTOMETRY                                   | 0.44               | mg/dL                    | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
|                                                  | Г (CONJUGATED): SERUM<br>spectrophotometry                    | 0.08               | mg/dL                    | 0.00 - 0.40                               |
|                                                  | ECT (UNCONJUGATED): SERUM                                     | 0.36               | mg/dL                    | 0.10 - 1.00                               |
| SGOT/AST: SERUM                                  | [<br>/RIDOXAL PHOSPHATE                                       | 23.35              | U/L                      | 7.00 - 45.00                              |
| SGPT/ALT: SERUM<br>by IFCC, WITHOUT PY           | [<br>/RIDOXAL PHOSPHATE                                       | 20.84              | U/L                      | 0.00 - 49.00                              |
| AST/ALT RATIO: S<br>by CALCULATED, SPE           | ERUM<br>ECTROPHOTOMETRY                                       | 1.12               | RATIO                    | 0.00 - 46.00                              |
| ALKALINE PHOSPI<br>by PARA NITROPHEN<br>PROPANOL | HATASE: SERUM<br>IYL PHOSPHATASE BY AMINO METHYL              | 197.5 <sup>H</sup> | U/L                      | 40.0 - 130.0                              |
| GAMMA GLUTAMY<br>by SZASZ, SPECTRO               | L TRANSFERASE (GGT): SERUM                                    | 45.61              | U/L                      | 0.00 - 55.0                               |
| TOTAL PROTEINS:<br>by BIURET, SPECTRO            |                                                               | 7.25               | gm/dL                    | 6.20 - 8.00                               |
| ALBUMIN: SERUM                                   |                                                               | 4.27               | gm/dL                    | 3.50 - 5.50                               |
| GLOBULIN: SERUN                                  |                                                               | 2.98               | gm/dL                    | 2.30 - 3.50                               |
| A : G RATIO: SERU                                |                                                               | 1.43               | RATIO                    | 1.00 - 2.00                               |

by CALCULATED, SPECTROPHOTOMETRY

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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INTERPRETATION





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|                    | MD (Pathology & N<br>Chairman & Consu | G, /                    | MD (Pathology)<br>Itant Pathologist |
|                    | Dr. Vinay Cho                         | pra 🛛 Dr. Yuş           | gam Chopra                          |

| 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 |
|                      |           |



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

MBBS, MD (PATHOLOGY)

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| Dr. Vinay Cl<br>MD (Pathology<br>Chairman & Co |                                           | 1icrobiology) | Dr. Yugam Chopra<br>MD (Pathology)<br>CEO & Consultant Pathologist |                                      |  |
|------------------------------------------------|-------------------------------------------|---------------|--------------------------------------------------------------------|--------------------------------------|--|
| NAME                                           | : Mrs. URMIL DHAWAN                       |               |                                                                    |                                      |  |
| AGE/ GENDER                                    | : 74 YRS/FEMALE                           | PA            | ATIENT ID                                                          | : 1626739                            |  |
| COLLECTED BY                                   | :                                         | R             | EG. NO./LAB NO.                                                    | : 042411240002                       |  |
| <b>REFERRED BY</b>                             | :                                         | R             | EGISTRATION DATE                                                   | : 24/Nov/2024 09:15 AM               |  |
| BARCODE NO.                                    | : A1259950                                | CO            | <b>OLLECTION DATE</b>                                              | : 24/Nov/2024 12:11PM                |  |
| CLIENT CODE.                                   | : KOS DIAGNOSTIC SHAHBAD                  | R             | EPORTING DATE                                                      | : 24/Nov/2024 01:25PM                |  |
| CLIENT ADDRESS                                 | : 6349/1, NICHOLSON ROAD, AM              | MBALA CANTT   |                                                                    |                                      |  |
| Test Name                                      |                                           | Value         | Unit                                                               | <b>Biological Reference interval</b> |  |
|                                                | KIDNE                                     | EY FUNCTION   | TEST (COMPLETE)                                                    | )                                    |  |
| UREA: SERUM                                    | MATE DEHYDROGENASE (GLDH)                 | 29.44         | mg/dL                                                              | 10.00 - 50.00                        |  |
| CREATININE: SER                                | UM                                        | 1.12          | mg/dL                                                              | 0.40 - 1.20                          |  |
|                                                | CTROPHOTOMETERY<br>ROGEN (BUN): SERUM     | 13.76         | mg/dL                                                              | 7.0 - 25.0                           |  |
| by CALCULATED, SP                              | ECTROPHOTOMETRY                           | 13.70         | ing/ uL                                                            |                                      |  |
| BLOOD UREA NITI<br>RATIO: SERUM                | ROGEN (BUN)/CREATININE                    | 12.29         | RATIO                                                              | 10.0 - 20.0                          |  |
|                                                | ECTROPHOTOMETRY                           |               |                                                                    |                                      |  |
| UREA/CREATININ                                 | IE RATIO: SERUM<br>ectrophotometry        | 26.29         | RATIO                                                              |                                      |  |
| URIC ACID: SERUN                               |                                           | 5.49          | mg/dL                                                              | 2.50 - 6.80                          |  |
| by URICASE - OXIDAS                            |                                           | 0.00          |                                                                    | 0.50 10.00                           |  |
| CALCIUM: SERUM<br>by ARSENAZO III, SPI         | ECTROPHOTOMETRY                           | 9.68          | mg/dL                                                              | 8.50 - 10.60                         |  |
| PHOSPHOROUS: SI                                |                                           | 2.87          | mg/dL                                                              | 2.30 - 4.70                          |  |
| ELECTROLYTES                                   | DATE, SPECTROPHOTOMETRY                   |               |                                                                    |                                      |  |
| SODIUM: SERUM                                  |                                           | 145.3         | mmol/L                                                             | 135.0 - 150.0                        |  |
| by ISE (ION SELECTI                            |                                           |               |                                                                    |                                      |  |
| POTASSIUM: SERU                                |                                           | 4.66          | mmol/L                                                             | 3.50 - 5.00                          |  |
| CHLORIDE: SERUM                                | M                                         | 108.98        | mmol/L                                                             | 90.0 - 110.0                         |  |
| by ISE (ION SELECTIV<br>FSTIMATED GLON         | VE ELECTRODE)<br>MERULAR FILTERATION RATE |               |                                                                    |                                      |  |
|                                                | IERULAR FILTERATION RATE                  | 51.6          |                                                                    |                                      |  |
| (eGFR): SERUM                                  | ILIVOLANTI LI LIVATION NATE               | 51.0          |                                                                    |                                      |  |
| 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.

3. GI haemorrhage.



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Pathologist                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                          | Dr. Yugam Chopra<br>MD (Pathology)<br>CEO & Consultant Pathologist                                     |                                                                                                                                                                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | : Mrs. URMIL DHAWAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |                                                                                                        |                                                                                                                                                                      |  |
| AGE/ GENDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | : 74 YRS/FEMALE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PAT                                                                                                                                                                                                                                                                                                                      | TENT ID                                                                                                | : 1626739                                                                                                                                                            |  |
| COLLECTED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REG                                                                                                                                                                                                                                                                                                                      | . NO./LAB NO.                                                                                          | : 042411240002                                                                                                                                                       |  |
| REFERRED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                          | <b>ISTRATION DATE</b>                                                                                  | : 24/Nov/2024 09:15 AM                                                                                                                                               |  |
| BARCODE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | : A1259950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                          | LECTION DATE                                                                                           | : 24/Nov/2024 12:11PM                                                                                                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | : KOS DIAGNOSTIC SHAHBAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                          |                                                                                                        |                                                                                                                                                                      |  |
| CLIENT CODE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                          | PORTING DATE                                                                                           | : 24/Nov/2024 01:25PM                                                                                                                                                |  |
| CLIENT ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | : 6349/1, NICHOLSON ROAD,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AMBALA CANTT                                                                                                                                                                                                                                                                                                             |                                                                                                        |                                                                                                                                                                      |  |
| Test Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Value                                                                                                                                                                                                                                                                                                                    | Unit                                                                                                   | Biological Reference interval                                                                                                                                        |  |
| <ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.<br/>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (e.g. ureter colostomy)<br>ass (subnormal creatinine produ<br>tetracycline, glucocorticoids)<br>0:1) WITH ELEVATED CREATININE<br>(BUN rises disproportionately m<br>superimposed on renal disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LEVELS:                                                                                                                                                                                                                                                                                                                  | e.g. obstructive urop                                                                                  | athy).                                                                                                                                                               |  |
| 8. Reduced muscle m<br>9. Certain drugs (e.g.<br>INCREASED RATIO (>2<br>1. Postrenal azotemia<br>2. Prerenal azotemia<br>DECREASED RATIO (<1<br>1. Acute tubular necr<br>2. Low protein diet ar<br>3. Severe liver disease<br>4. Other causes of de<br>5. Repeated dialysis (<br>6. Inherited hyperam<br>7. SIADH (syndrome c<br>8. Pregnancy.<br>DECREASED RATIO (<1<br>1. Phenacimide thera<br>2. Rhabdomyolysis (r<br>3. Muscular patients<br>INAPPROPIATE RATIO<br>1. Diabetic ketoacido<br>should produce an in<br>2. Cephalosporin ther<br>ESTIMATED GLOMERL<br>CKD STAGE<br>G1<br>G2                                                                                    | ass (subnormal creatinine produ<br>tetracycline, glucocorticoids)<br>0:1) WITH ELEVATED CREATININE<br>(BUN rises disproportionately m<br>superimposed on renal disease.<br>(0:1) WITH DECREASED BUN :<br>osis.<br>nd starvation.<br>2.<br>creased urea synthesis.<br>urea rather than creatinine diffu<br>monemias (urea is virtually abse<br>of inappropiate antidiuretic harm<br>(0:1) WITH INCREASED CREATININ<br>py (accelerates conversion of cree<br>eleases muscle creatinine).<br>who develop renal failure.<br>:<br>sis (acetoacetate causes false inte<br>creased BUN/creatinine ratio).<br>apy (interferes with creatinine m<br>ULAR FILTERATION RATE:<br>DESCRIPTION<br>Normal kidney funct<br>Kidney damage wit<br>normal or high GF                                 | LEVELS:         ore than creatinine) (         ses out of extracellul         nt in blood).         one) due to tubular set         bine) due to tubular set         E:         atine to creatinine).         crease in creatinine we         easurement).         GFR (mL/m         h       >1                          | ar fluid).<br>ecretion of urea.<br>ith certain methodol<br>in/1.73m2) A:<br>20 F<br>Alt                | athy).<br>ogies,resulting in normal ratio when dehydrat<br><u>SSOCIATED FINDINGS</u><br><u>No proteinuria</u><br><u>oresence of Protein , bumin or cast in urine</u> |  |
| A. Reduced muscle m<br>Certain drugs (e.g.<br>INCREASED RATIO (>2<br>Prerenal azotemia<br>DECREASED RATIO (<1<br>Acute tubular necr<br>Low protein diet ar<br>Severe liver disease<br>Other causes of de<br>Repeated dialysis (<br>Inherited hyperam<br>SIADH (syndrome of<br>Pregnancy.<br>DECREASED RATIO (<1<br>Nhenacimide thera<br>Rhabdomyolysis (r<br>Muscular patients<br>NAPPROPIATE RATIO<br>Diabetic ketoacido<br>should produce an in<br>Cephalosporin ther<br>ESTIMATED GLOMERL<br>G1<br>G2<br>G3a                                                                                                                                                                | ass (subnormal creatinine produ<br>tetracycline, glucocorticoids)<br>0:1) WITH ELEVATED CREATININE<br>(BUN rises disproportionately m<br>superimposed on renal disease.<br>(0:1) WITH DECREASED BUN :<br>osis.<br>d starvation.<br>e.<br>creased urea synthesis.<br>urea rather than creatinine diffu<br>monemias (urea is virtually abse<br>of inappropiate antidiuretic harm<br>(0:1) WITH INCREASED CREATININ<br>py (accelerates conversion of crea<br>eleases muscle creatinine).<br>who develop renal failure.<br>:<br>sis (acetoacetate causes false into<br>creased BUN/creatinine ratio).<br>apy (interferes with creatinine m<br><u>LAR FILTERATION RATE:<br/>DESCRIPTION<br/>Normal kidney funct<br/>Kidney damage wit<br/>normal or high GF<br/>Mild decrease in G</u> | LEVELS:         ore than creatinine) (         ses out of extracellul         nt in blood).         one) due to tubular set         bine) due to tubular set         atine to creatinine).         crease in creatinine we         easurement).         ion         R         60                                         | ar fluid).<br>ecretion of urea.<br>ith certain methodol<br>in/1.73m2) A:<br>20 F<br>20 F<br>Alt<br>-89 | ogies,resulting in normal ratio when dehydrat SSOCIATED FINDINGS No proteinuria                                                                                      |  |
| <ol> <li>Reduced muscle m</li> <li>Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Perenal azotemia</li> <li>Perenal azotemia</li> <li>DECREASED RATIO (&lt;1</li> <li>Acute tubular necr</li> <li>Low protein diet ar</li> <li>Severe liver disease</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome c</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;1</li> <li>Phenacimide thera</li> <li>Rabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>bould produce an in</li> <li>Cephalosporin ther</li> <li>CKD STAGE</li> <li>G1</li> </ol> | ass (subnormal creatinine produ<br>tetracycline, glucocorticoids)<br>0:1) WITH ELEVATED CREATININE<br>(BUN rises disproportionately m<br>superimposed on renal disease.<br>(0:1) WITH DECREASED BUN :<br>osis.<br>nd starvation.<br>2.<br>creased urea synthesis.<br>urea rather than creatinine diffu<br>monemias (urea is virtually abse<br>of inappropiate antidiuretic harm<br>(0:1) WITH INCREASED CREATININ<br>py (accelerates conversion of cree<br>eleases muscle creatinine).<br>who develop renal failure.<br>:<br>sis (acetoacetate causes false inte<br>creased BUN/creatinine ratio).<br>apy (interferes with creatinine m<br>ULAR FILTERATION RATE:<br>DESCRIPTION<br>Normal kidney funct<br>Kidney damage wit<br>normal or high GF                                 | LEVELS:         ore than creatinine) (         ses out of extracellul         nt in blood).         one) due to tubular set         bine) due to tubular set         atine to creatinine).         crease in creatinine we easurement).         ion         Set         R         GFR         GFR         GFR         30 | ar fluid).<br>ecretion of urea.<br>ith certain methodol<br>in/1.73m2) A:<br>20 F<br>Alt                | ogies,resulting in normal ratio when dehydrat SSOCIATED FINDINGS No proteinuria                                                                                      |  |





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| BARCODE NO.<br>CLIENT CODE.<br>CLIENT ADDRESS | : A1259950<br>: KOS DIAGNOSTIC SHAHBAD<br>: 6349/1, NICHOLSON ROAD, AMBALA CA  | COLLECTION DATE<br>REPORTING DATE | : 24/Nov/2024 12:11PM<br>: 24/Nov/2024 01:25PM |
|-----------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------|
| REFERRED BY                                   | :                                                                              | <b>REGISTRATION DATE</b>          | : 24/Nov/2024 09:15 AM                         |
| COLLECTED BY                                  |                                                                                | REG. NO./LAB NO.                  | : 042411240002                                 |
| NAME<br>AGE/ GENDER                           | <b>: Mrs. URMIL DHAWAN</b><br>: 74 YRS/FEMALE                                  | PATIENT ID                        | : 1626739                                      |
|                                               | Dr. Vinay Chopra<br>MD (Pathology & Microbiolog<br>Chairman & Consultant Patho | 517                               | (Pathology)                                    |

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                                                                | : Mrs. URMIL DHAWAN                |                     |                       |                                                 |      |
|---------------------------------------------------------------------|------------------------------------|---------------------|-----------------------|-------------------------------------------------|------|
| AGE/ GENDER                                                         | : 74 YRS/FEMALE                    | РА                  | TIENT ID              | : 1626739                                       |      |
| COLLECTED BY                                                        |                                    | REG. NO./LAB NO.    |                       | : 042411240002                                  |      |
| REFERRED BY                                                         |                                    |                     | GISTRATION DATE       | : 24/Nov/2024 09:15 AM<br>: 24/Nov/2024 12:11PM |      |
| BARCODE NO.                                                         | : A1259950                         |                     | LLECTION DATE         |                                                 |      |
| CLIENT CODE.                                                        | : KOS DIAGNOSTIC SHAHBAD           | REPORTING DATE      |                       | : 24/Nov/2024 12:111 M                          |      |
| CLIENT ADDRESS                                                      | : 6349/1, NICHOLSON ROAD, A        |                     |                       |                                                 |      |
|                                                                     |                                    |                     |                       |                                                 |      |
| Test Name                                                           |                                    | Value               | Unit                  | <b>Biological Reference inter</b>               | rval |
|                                                                     |                                    |                     |                       |                                                 |      |
|                                                                     | IMM                                | UNOPATHOL           | OGY/SEROLOGY          | Y                                               |      |
|                                                                     |                                    | C-REACTIVE PR       | OTEIN (CRP)           |                                                 |      |
|                                                                     | EIN (CRP) QUANTITATIVE:            | 4.28                | mg/L                  | 0.0 - 6.0                                       |      |
| C-REACTIVE PROT                                                     |                                    |                     |                       |                                                 |      |
| SERUM                                                               |                                    |                     |                       |                                                 |      |
| SERUM<br>by NEPHLOMETRY<br>INTERPRETATION:                          |                                    |                     |                       |                                                 |      |
| SERUM<br>by NEPHLOMETRY<br>INTERPRETATION:<br>1. C-reactive protein | (CRP) is one of the most sensitive | acute-phase reactar | nts for inflammation. | n, inflammation, surgery, or neoplastic         |      |

5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history. 2. Oral contraceptives may increase CRP levels.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MD                                                                                                                                                                                                                                                                                                                                                                 | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Pathologist                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      | Dr. Yugam Chopra<br>MD (Pathology)<br>CEO & Consultant Pathologist                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | : Mrs. URMIL DH                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                           | DA TERMIT I                                                                                                                                                                                                                                                                          | D                                                                                                                                                                                                                                                                           | . 1000700                                                                                                                                                                                                                                                                                                                                                                                               |
| AGE/ GENDER<br>COLLECTED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | : 74 YRS/FEMALE                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                           | PATIENT I<br>REG. NO./I                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                             | : 1626739                                                                                                                                                                                                                                                                                                                                                                                               |
| REFERRED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | •                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      | TION DATE                                                                                                                                                                                                                                                                   | : 042411240002<br>: 24/Nov/2024 09:15 AM                                                                                                                                                                                                                                                                                                                                                                |
| BARCODE NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | : A1259950                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                           | COLLECTI                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                             | : 24/Nov/2024 12:11PM                                                                                                                                                                                                                                                                                                                                                                                   |
| CLIENT CODE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | : KOS DIAGNOSTI                                                                                                                                                                                                                                                                                                                                                    | IC SHAHBAD                                                                                                                                                                                                                                                                                                                                                                                                | REPORTIN                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                             | : 24/Nov/2024 01:24PM                                                                                                                                                                                                                                                                                                                                                                                   |
| CLIENT ADDRESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                    | LSON ROAD, AMBALA CA                                                                                                                                                                                                                                                                                                                                                                                      | ANTT                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                    | Value                                                                                                                                                                                                                                                                                                                                                                                                     | e                                                                                                                                                                                                                                                                                    | Unit                                                                                                                                                                                                                                                                        | <b>Biological Reference interval</b>                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RH                                                                                                                                                                                                                                                                                                                                                                 | EUMATOID FACTO                                                                                                                                                                                                                                                                                                                                                                                            | R (RA): QUA                                                                                                                                                                                                                                                                          | NTITATIVE                                                                                                                                                                                                                                                                   | - SERUM                                                                                                                                                                                                                                                                                                                                                                                                 |
| RHEUMATOID (RA)<br>SERUM<br>by NEPHLOMETRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                      | IU/mL                                                                                                                                                                                                                                                                       | NEGATIVE: < 18.0<br>BORDERLINE: 18.0 - 25.0<br>POSITIVE: > 25.0                                                                                                                                                                                                                                                                                                                                         |
| 4. The titer of RF corrects.<br>5. The test is useful for<br><b>RHEUMATOID ARTHIRI</b><br>1. Rheumatoid Arthiring<br>membrane lining (syntext)<br>2. The disease spredats<br>3. The diagnosis of RA<br>measurement of RA fators for the test<br><b>CAUTION (FALSE POST</b><br>1. RA factor is not specents)<br>2. Non rheumatoid and<br>RA patients have a nor<br>3. Patients with various<br>lupus erythematosus, patients with various<br>lupus erythematosus, patients of the test<br>4. Anti-CCP have been<br>specific (98%) than RA<br>5. Upto 30 % of patients | elates poorly with d<br>or diagnosis and pro<br>ITIS:<br>itis is a systemic autory<br>ovium) joints which<br>s from small to larg<br>A is primarily based<br>octor.<br>IVE):-<br>cific for Rheumatoid<br>d rheumatoid arthrit<br>nreactive titer and 8<br>is nonrheumatoid dis<br>polymyositis, tuberco<br>discovered in joints<br>factor.<br>ts with Seronegative | ognosis of rheumatoid an<br>itoimmune disease that i<br>h ledas to progressive jo<br>ge joints, with greatest da<br>i on clinical, radiological<br>arthiritis, as it is often pro-<br>tis (RA) populations are no<br>3% of nonrheumatoid pati-<br>iseases, characterized by cl<br>culosis, syphilis, viral hepa<br>of patients with RA, but r<br>re Rheumatoid arthiritis al<br>P antibodies for Rheumato | e patients with hig<br>rthritis.<br>s multi-functiona<br>int destruction ar<br>amage in early ph<br>& immunological<br>esent in healthy into<br>to clearly separate<br>ents have a positiv<br>hronic inflammatic<br>titis, infectious mo<br>oot in other form o<br>so show Anti-CCP. | h titers tend to<br>I in origin and i<br>ad in most case<br>ase.<br>features.The n<br>dividuals with o<br>with regard to<br>with regard to<br>with regard to<br>with regard to<br>so may have pos<br>nonucleosis, an<br>f joint disease.A<br>antibodies.<br>greater than Rh | have more severe disease course.<br>s characterized by chronic inflammation of the<br>s to disability and reduction of quality life.<br>nost frequent serological test is the<br>ther autoimmune diseases and chronic infections<br>the presence of rheumatoid factor (RF) (15% of<br>sitive tests for RF. These diseases include systemic<br>d influenza.<br>nti-CCP2 is HIGHLY SENSITIVE (71%) & more |

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