



| o <b>pra</b><br>Microbiology)<br>ultant Pathologist | Dr. Yugam C<br>MD (Pa<br>CEO & Consultant Pa  | athology)   |
|---|---|---|
|   |   |   |
| ]   | PATIENT ID  | : 1649964   |
| 1   | REG. NO./LAB NO.  | :012410220015   |
| ]   | REGISTRATION DATE   | : 22/Oct/2024 09:29 AM  |
|   | COLLECTION DATE   | : 22/Oct/2024 10:08AM   |
| 1   | REPORTING DATE  | : 22/Oct/2024 10:38AM   |
| MBALA CANTT   |   |   |
| Value   | Unit  | Biological Reference interval   |
| ASTHYA WE   | LLNESS PANEL: Y   |   |
| OMPI FTF BI O                                       | OD COUNT (CBC)  |   |
|   |   |   |
| 11 <sup>L</sup>                                     | gm/dL   | 12.0 - 17.0   |
| 3.95  | Millions/cmr  | m 3.50 - 5.00   |
|   |   |   |
| 34.2 <sup>L</sup>                                   | %   | 40.0 - 54.0   |
| 86.5  | fL  | 80.0 - 100.0  |
|   | 00  | 27.0 - 34.0   |
| 27.0<br>R   | pg  | 27.0 - 34.0   |
| 32.2  | g/dL  | 32.0 - 36.0   |
|   | 0/  | 11.00 - 16.00   |
| R   | 70  | 11.00 - 18.00   |
| 52  | fL  | 35.0 - 56.0   |
|   |   | BETA THALASSEMIA TRAIT: < 13.0  |
| 21.9  | KATIO   | IRON DEFICIENCY ANEMIA: >13.0   |
| 34.98   | RATIO   | BETA THALASSEMIA TRAIT:<= 65.0  |
|   |   | IRON DEFICIENCY ANEMIA: > 65.0  |
|   |   |   |
| 7380  | /cmm  | 4000 - 11000  |
| NII   |   | 0.00 - 20.00  |
| INIL  |   | 0.00 - 20.00  |
| NIL   | %   | < 10 %  |
| R   |   |   |
| (0)   | 0/  | 50  |
| 60  | %   | 50 - 70   |
|   | Microbiology)<br>Microbiology)<br>MBALA CANTT<br>Value<br>Value<br>VASTHYA WE<br>OMPLETE BLO<br>11 <sup>L</sup><br>3.95<br>34.2 <sup>L</sup><br>86.5<br>27.8<br>32.2<br>16<br>52<br>21.9<br>34.98<br>7380<br>NIL<br>NIL | Microbiology)     MD (Processed Consultant Pathologist)       PATIENT ID<br>REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE       WBALA CANTT       Value     Unit       Value     Unit       A state cantal       A state |

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT







Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RANJIT MANKOTIA AGE/ GENDER : 73 YRS/MALE **PATIENT ID** :1649964 **COLLECTED BY** : SURJESH :012410220015 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Oct/2024 09:29 AM : **BARCODE NO.** :01519341 **COLLECTION DATE** : 22/Oct/2024 10:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Oct/2024 10:38AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 20 - 40 30 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **EOSINOPHILS** 2 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4428 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2214 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 148 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 590 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 189000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.10 - 0.36 PLATELETCRIT (PCT) 0.25 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 13<sup>H</sup> fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 /cmm 92000<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 48.5<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16.1 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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|   | Dr. Vinay Cho<br>MD (Pathology & 1<br>Chairman & Consu   | Microbiology)   | Dr. Yugam<br>MD (<br>CEO & Consultant I  | Pathology)                    |
|---|--|---|--|-------------------------------|
| NAME  | : Mr. RANJIT MANKOTIA  |   |  |                               |
| AGE/ GENDER   | : 73 YRS/MALE  | PATI  | ENT ID   | : 1649964                     |
| COLLECTED BY  | : SURJESH  | REG. 1  | NO./LAB NO.  | :012410220015                 |
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| CLIENT CODE.  | : KOS DIAGNOSTIC LAB   | REPO  | RTING DATE   | : 22/Oct/2024 03:20PM         |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, A  |   |  |                               |
| Test Name   |  | Value   | Unit   | Biological Reference interval |
|   |  |   |  |                               |
|   | GLYC<br>MOGLOBIN (HbA1c):  | OSYLATED HAEMO<br>7.9 <sup>H</sup>  | GLOBIN (HBA1C)<br>%  | 4.0 - 6.4                     |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO   | MOGLOBIN (HbA1c):<br>RMANCE LIQUID CHROMATOGRAPHY)   |   |  | 4.0 - 6.4<br>60.00 - 140.00   |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO   | MOGLOBIN (HbA1c):<br>prmance liquid chromatography)<br>E PLASMA GLUCOSE<br>prmance liquid chromatography)  | 7.9 <sup>H</sup>  | %<br>mg/dL   |                               |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:                      | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP  | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION                                       | %<br>mg/dL   | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:                      | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years   | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION                                       | %<br>mg/dL<br>(ADA):   | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:                      | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP  | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION                                       | %<br>mg/dL<br>(ADA):<br>/LATED HEMOGLOGIB (  | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:<br>Non dia<br>A      | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years   | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION                                       | %<br>mg/dL<br>(ADA):<br><u>(ADA):</u><br><u>&lt;5.7</u><br><u>5.7 - 6.4</u><br>>= 6.5  | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:<br>Non dia<br>A      | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years<br>t Risk (Prediabetes)                       | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION<br>GLYCOSY                            | %<br>mg/dL<br>(ADA):<br>(ATED HEMOGLOGIB (<br><5.7<br>5.7 - 6.4<br>>= 6.5<br>Age > 19 Years  | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:<br>Non dia<br>A<br>D | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years<br>t Risk (Prediabetes)<br>iagnosing Diabetes | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION<br>GLYCOSY<br>GLYCOSY<br>Goals of The | %<br>mg/dL<br>(ADA):<br>/LATED HEMOGLOGIB (<br><5.7<br>5.7 - 6.4<br>>= 6.5<br>Age > 19 Years<br>erapy:                             | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:<br>Non dia<br>A<br>D | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years<br>t Risk (Prediabetes)                       | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION<br>GLYCOSY                            | %<br>mg/dL<br>(ADA):<br>/LATED HEMOGLOGIB (<br><5.7<br>5.7 - 6.4<br>>= 6.5<br>Age > 19 Years<br>erapy:<br>ested:                   | 60.00 - 140.00                |
| WHOLE BLOOD<br>by HPLC (HIGH PERFO<br>ESTIMATED AVERAG<br>by HPLC (HIGH PERFO<br>INTERPRETATION:<br>Non dia<br>A<br>D | MOGLOBIN (HbA1c):<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>E PLASMA GLUCOSE<br>PRMANCE LIQUID CHROMATOGRAPHY)<br>AS PER AMERICAN E<br>REFERENCE GROUP<br>abetic Adults >= 18 years<br>t Risk (Prediabetes)<br>iagnosing Diabetes | 7.9 <sup>H</sup><br>180.03 <sup>H</sup><br>DIABETES ASSOCIATION<br>GLYCOSY<br>GLYCOSY<br>Goals of The | %<br>mg/dL<br>(ADA):<br>/LATED HEMOGLOGIB (<br><5.7<br>5.7 - 6.4<br>>= 6.5<br>Age > 19 Years<br>erapy:<br>ested:<br>Age < 19 Years | 60.00 - 140.00                |

**KOS Diagnostic Lab** 

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### COMMENTS:

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

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

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

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

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|   | Dr. Vinay Cho<br>MD (Pathology & M<br>Chairman & Consu   | 1icrobiology)   | Dr. Yugam<br>MD<br>CEO & Consultant  | (Pathology)  |          |
|---|--|---|--|--|----------|
| NAME  | : Mr. RANJIT MANKOTIA  |   |  |  |          |
| AGE/ GENDER   | : 73 YRS/MALE  | РА  | TIENT ID   | : 1649964  |          |
| COLLECTED BY  | : SURJESH  | RE  | G. NO./LAB NO.   | : 012410220015   |          |
| REFERRED BY   | :  | RE  | GISTRATION DATE  | : 22/Oct/2024 09:29 AM                                 |          |
| BARCODE NO.   | : 01519341   | CO  | LLECTION DATE  | : 22/Oct/2024 10:08AM                                  |          |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB   | RE  | PORTING DATE   | : 22/Oct/2024 10:57AM                                  |          |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, AN   | MBALA CANTT   |  |  |          |
| Test Name   |  | Value   | Unit   | Biological Reference inter                             | val      |
|   | ERYTHR   | OCYTE SEDIME  | NTATION RATE (ESF  | 2)   |          |
|   | MENTATION RATE (ESR)<br>GATION BY CAPILLARY PHOTOMETRY   | 18  | mm/1st h   |  |          |
| systemic lupus erythe<br>CONDITION WITH LOV<br>A low ESR can be seer<br>(polycythaemia), sign<br>as sickle cells in sickle<br>NOTE:<br>1. ESR and C - reactive<br>2. Generally, ESR doe<br>3. CRP is not affected<br>4. If the ESR is elevate<br>5. Women tend to ha<br>6. Drugs such as dext | ematosus<br><b>N ESR</b><br>n with conditions that inhibit the n<br>ificantly high white blood cell cou<br>e cell anaemia) also lower the ESR<br>e protein (C-RP) are both markers of<br>s not change as rapidly as does CR<br><b>by as many other factors as is ESR</b> ,<br>ed, it is typically a result of two typ<br>ve a higher ESR, and menstruation | normal sedimentati<br>nt (leucocytosis) , a<br>s.<br>of inflammation.<br>P, either at the sta<br><b>making it a better</b><br>bes of proteins, glo<br>and pregnancy can | ion of red blood cells, su<br>and some protein abnor<br>rt of inflammation or as<br><b>marker of inflammation</b><br>bulins or fibrinogen. | malities. Some changes in red cell sha<br>it resolves. | pe (suct |
|   |  |   |  |  |          |



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







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|--|--|---------------------|---------------------|---|
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| LIENT CODE.                            | : KOS DIAGNOSTIC LAB                   | REPO                | RTING DATE          | : 22/Oct/2024 03:19PM   |
| Fest Name                              | CLIN                                   | Value               | Unit<br>BIOCHEMISTR | Biological Reference interval   |
|  |  | GLUCOSE FAST        | ING (F)             |   |
| GLUCOSE FASTING (<br>by glucose oxidas | F): PLASMA<br>E - PEROXIDASE (GOD-POD) | 155.56 <sup>H</sup> | mg/dL               | NORMAL: < 100.0<br>PREDIABETIC: 100.0 - 125.0<br>DIABETIC: > 0R = 126.0 |
| <u>INTERPRETATION</u>                  | H AMERICAN DIABETES ASSOCIAT           |                     |                     | prediabetic. A fasting and post-prandial blood                          |

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| ology & Microbiology)<br>& Consultant Pathologist |  | n <b>Chopra</b><br>(Pathology)<br>Pathologist   |
|---|--|---|
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| 3 <b>REI</b><br>ROAD, AMBALA CANTT                | PORTING DATE   | : 22/Oct/2024 11:22AM   |
| Value   | Unit   | Biological Reference interval   |
| LIPID PROFIL                                      | E : BASIC  |   |
| 208.76 <sup>H</sup>                               | mg/dL  | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 - 239.<br>HIGH CHOLESTEROL: > OR = 240   |
| c) 150.89 <sup>H</sup>                            | mg/dL  | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 - 199.<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| 48.37   | mg/dL  | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0   |
| 130.21 <sup>H</sup>                               | mg/dL  | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 - 159.<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| 160.39 <sup>H</sup>                               | mg/dL  | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 - 189.<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| 30.18   | mg/dL  | 0.00 - 45.00  |
| 568.41  | mg/dL  | 350.00 - 700.00   |
| 4.32  | 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                                |
| 2.69  | RATIO  | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0   |
|   | 4.32   | 4.32 RATIO  |

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Page 6 of 22

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





|   |                         | Chopra<br>y & Microbiology)<br>Consultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                   |
|---|-------------------------|---|-------------------------------------|-------------------------------|
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| CLIENT CODE.                            | : KOS DIAGNOSTIC LAB    | REPO  | RTING DATE                          | : 22/Oct/2024 11:22AM         |
| CLIENT ADDRESS                          | : 6349/1, NICHOLSON ROA | D, AMBALA CANTT                                       |                                     |                               |
| Test Name                               |                         | Value   | Unit                                | Biological Reference interval |
| TRIGLYCERIDES/HDL<br>by CALCULATED, SPE |                         | 3.12  | RATIO                               | 3.00 - 5.00                   |

### **INTERPRETATION:**

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended recommended.

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

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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RANJIT MANKOTIA **AGE/ GENDER** : 73 YRS/MALE **PATIENT ID** :1649964 **COLLECTED BY** : SURJESH :012410220015 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Oct/2024 09:29 AM : **BARCODE NO.** :01519341 **COLLECTION DATE** : 22/Oct/2024 10:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Oct/2024 11:22AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.44 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.00 - 0.40 0.11 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.33 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 18.1 U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 19.8 U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE

| AST/ALT RATIO: SERUM<br>by calculated, spectrophotometry                                   | 0.91  | RATIO | 0.00 - 46.00 |
|--|-------|-------|--------------|
| ALKALINE PHOSPHATASE: SERUM<br>by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL<br>PROPANOL | 48.97 | U/L   | 40.0 - 130.0 |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM<br>by szasz, spectrophtometry                      | 22.33 | U/L   | 0.00 - 55.0  |
| TOTAL PROTEINS: SERUM<br>by BIURET, SPECTROPHOTOMETRY                                      | 6.76  | gm/dL | 6.20 - 8.00  |
| ALBUMIN: SERUM<br>by BROMOCRESOL GREEN   | 3.8   | gm/dL | 3.50 - 5.50  |
| GLOBULIN: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY  | 2.96  | gm/dL | 2.30 - 3.50  |
| A : G RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETRY                                     | 1.28  | RATIO | 1.00 - 2.00  |

#### INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

## INCREASED:

| DRUG HEPATOTOXICITY      | > 2                     |
|--------------------------|-------------------------|
| ALCOHOLIC HEPATITIS      | > 2 (Highly Suggestive) |
| CIRRHOSIS                | 1.4 - 2.0               |
| INTRAHEPATIC CHOLESTATIS | > 1.5                   |





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





|                  | Dr. Vinay Chop<br>MD (Pathology & M<br>Chairman & Consult | icrobiology) | Dr. Yugan<br>MD<br>CEO & Consultant | (Pathology)                 |     |
|------------------|---|--------------|-------------------------------------|-----------------------------|-----|
| NAME             | : Mr. RANJIT MANKOTIA                                     |              |                                     |                             |     |
| AGE/ GENDER      | : 73 YRS/MALE   | РАТ          | TENT ID                             | : 1649964                   |     |
| COLLECTED BY     | : SURJESH   | REG          | . NO./LAB NO.                       | : 012410220015              |     |
| REFERRED BY      | :   | REG          | ISTRATION DATE                      | : 22/Oct/2024 09:29 AM      |     |
| BARCODE NO.      | : 01519341  | COL          | LECTION DATE                        | : 22/Oct/2024 10:08AM       |     |
| CLIENT CODE.     | : KOS DIAGNOSTIC LAB                                      | REP          | ORTING DATE                         | : 22/Oct/2024 11:22AM       |     |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AM                              | IBALA CANTT  |                                     |                             |     |
| Test Name        |   | Value        | Unit                                | Biological Reference interv | /al |
| HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS                              |              | > 1.3 (Slightly Inc                 | reased)                     |     |

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

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

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

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

MBBS, MD (PATHOLOGY)

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|---|---|-------------------|--------------------------|-------------------------------|
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| Test Name                                 |   | Value             | Unit                     | Biological Reference interval |
|   | кі  | DNEY FUNCTIO      | N TEST (COMPLETE)        |                               |
| UREA: SERUM                               |   | 17.07             | mg/dL                    | 10.00 - 50.00                 |
| -   | IATE DEHYDROGENASE (GLDH)                         |                   | ° °                      |                               |
| CREATININE: SERUN<br>by ENZYMATIC, SPEC   |   | 0.89              | mg/dL                    | 0.40 - 1.40                   |
| BLOOD UREA NITRO                          |   | 7.98              | mg/dL                    | 7.0 - 25.0                    |
| by CALCULATED, SPE                        | ECTROPHOTOMETRY                                   |                   |                          |                               |
|   | GEN (BUN)/CREATININE                              | 8.97 <sup>L</sup> | RATIO                    | 10.0 - 20.0                   |
| RATIO: SERUM<br>by CALCULATED, SPI        | ECTROPHOTOMETRY                                   |                   |                          |                               |
| UREA/CREATININE F                         |   | 19.18             | RATIO                    |                               |
| by CALCULATED, SPE<br>URIC ACID: SERUM    | ECTROPHOTOMETRY                                   | 5.31              | mg/dL                    | 3.60 - 7.70                   |
| by URICASE - OXIDAS                       | E PEROXIDASE                                      | 5.51              | Ing/ uL                  | 3.00 - 7.70                   |
| CALCIUM: SERUM                            |   | 9.15              | mg/dL                    | 8.50 - 10.60                  |
| by ARSENAZO III, SPE<br>PHOSPHOROUS: SER  |   | 3.47              | mg/dL                    | 2.30 - 4.70                   |
|   | DATE, SPECTROPHOTOMETRY                           | 5.47              | Ing/uL                   | 2.30 - 4.70                   |
| ELECTROLYTES                              |   |                   |                          |                               |
| SODIUM: SERUM                             |   | 134 <sup>L</sup>  | mmol/L                   | 135.0 - 150.0                 |
| by ISE (ION SELECTION<br>POTASSIUM: SERUM |   | 4.5               | mmol/L                   | 3.50 - 5.00                   |
| by ISE (ION SELECTIV                      |   | 4.5               | THINO/ L                 | 3.30 - 3.00                   |
| CHLORIDE: SERUM                           |   | 100.5             | mmol/L                   | 90.0 - 110.0                  |
| by ISE (ION SELECTIV                      | (E ELECTRODE)<br>RULAR FILTERATION RATE           |                   |                          |                               |
|   |   | 00 F              |                          |                               |
| (eGFR): SERUM                             | RULAR FILTERATION RATE                            | 90.5              |                          |                               |
| by CALCULATED                             |   |                   |                          |                               |

# INTERPRETATION:

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





| 00001.2000 0201  |  |   |  |                  |  |                           |
|--|--|---|--|------------------|--|---------------------------|
|  |  | Dr. Vinay Chopra<br>MD (Pathology & Micro<br>Chairman & Consultant  |  |                  | m <b>Chopra</b><br>D (Pathology)<br>nt Pathologist |                           |
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| REFERRED BY  | :  |   | REG  | ISTRATION DATE   | : 22/Oct/2024 09:2                                 | 9 AM                      |
| BARCODE NO.  | :01519341  |   | COL  | LECTION DATE     | : 22/Oct/2024 10:0                                 | 8AM                       |
| CLIENT CODE.   | : KOS DIAGN  | OSTIC LAB   | REP  | ORTING DATE      | : 22/Oct/2024 12:2                                 | 1PM                       |
| CLIENT ADDRESS   | : 6349/1, NIC  | CHOLSON ROAD, AMBAI   | LA CANTT   |                  |  |                           |
| Test Name  |  |   | Value  | Unit             | Biological   | Reference interval        |
| <ul> <li>6. Inherited hyperam</li> <li>7. SIADH (syndrome of<br/>8. Pregnancy.</li> <li>DECREASED RATIO (&lt;</li> <li>1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido<br/>should produce an in</li> </ul> | e.<br>ecreased urea sy<br>(urea rather tha<br>monemias (ure<br>of inappropiate<br><b>10:1) WITH INCR</b><br>apy (accelerates<br>releases muscle<br>who develop re<br>osis (acetoaceta<br>acreased BUN/ci | an creatinine diffuses ou<br>a is virtually absent in b<br>antidiuretic harmone) d<br><b>REASED CREATININE:</b><br>conversion of creatine t<br>creatinine).<br>enal failure.<br>te causes false increase<br>reatinine ratio). | ilood).<br>ue to tubular se<br>to creatinine).<br>in creatinine wi | cretion of urea. | logies,resulting in norma                          | al ratio when dehydration |
| ESTIMATED GLOMERU  | <u>ULAR FILTERATIO</u>   |   |  |                  |  | 7                         |
| CKD STAGE  |  | DESCRIPTION   | GFR ( mL/mi  |                  | SSOCIATED FINDINGS                                 | 4                         |
| G1   |  | rmal kidney function  | >9   |                  | No proteinuria                                     | 4                         |
| G2   |  | idney damage with<br>hormal or high GFR   | >9   |                  | Presence of Protein ,<br>bumin or cast in urine    |                           |
| G3a  |  | formation high GFR  | 60 -   |                  |  | 4                         |
| G3b  |  | derate decrease in GFR  | 30-  |                  |  | 1                         |
| G4   |  | vere decrease in GFR  | 15-  |                  |  | 1                         |
| CE   |  | Kidnov foiluro  |  | E E              |  | 4                         |

G5

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Kidney failure

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

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|                    | <b>Dr. Vinay Chop</b><br>MD (Pathology & Mic<br>Chairman & Consult | crobiology) MI           | m Chopra<br>D (Pathology)<br>ht Pathologist |
|--------------------|--|--------------------------|---|
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| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AM                                       | BALA CANTT               |   |
| Г                  |  |                          |   |
| Test Name          |  | Value Unit               | Biological Reference interval               |

COMMENTS:

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

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

ADVICE:

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





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|   |                             | IRON PROF                | ILE         |                               |  |
| RON: SERUM  | TROPHOTOMETRY               | 32.5 <sup>L</sup>        | μg/dL       | 59.0 - 158.0                  |  |
| •   | N BINDING CAPACITY (UIBC)   | 307.04                   | μg/dL       | 150.0 - 336.0                 |  |
| OTAL IRON BINDIN<br>SERUM                               | G CAPACITY (TIBC)           | 339.54                   | µg/dL       | 230 - 430                     |  |
| <b>%TRANSFERRIN SAT</b>                                 |                             | 9.57 <sup>L</sup>        | %           | 15.0 - 50.0                   |  |
| RANSFERRIN: SERL<br>by SPECTROPHOTOM<br>NTERPRETATION:- | JM                          | 241.07                   | mg/dL       | 200.0 - 350.0                 |  |

| <u>IN I</u> | EKP | <u>'RE</u> | <u>I A I</u> | <u>10</u> | <u> N:</u> | - |
|-------------|-----|------------|--------------|-----------|------------|---|
|             |     |            |              |           |            |   |

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

IRON:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.

**TOTAL IRON BINDING CAPACITY (TIBC):** 1. It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.

### % TRANSFERRIN SATURATION:

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





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| Test Name                                 |  | Value                  | Unit                             | Biological Reference interval   |  |
|   |  | ENDO                   | CRINOLOGY                        |   |  |
|   | ТН   | YROID FUN              | CTION TEST: TOTAL                |   |  |
| TRIIODOTHYRONINI                          | E (T3): SERUM<br>vescent microparticle immunoassa  | 0.784                  | ng/mL                            | 0.35 - 1.93   |  |
| THYROXINE (T4): SE<br>by CMIA (CHEMILUMIN | RUM<br>NESCENT MICROPARTICLE IMMUNOASSA  | 8.71<br>(Y)            | µgm/dL                           | 4.87 - 12.60  |  |
|   | ING HORMONE (TSH): SERUM   | 3.182<br>(Y)           | µIU/mL                           | 0.35 - 5.50   |  |
| 3rd GENERATION, ULT<br>INTERPRETATION:    | RASENSITIVE  |                        |                                  |   |  |
| day has influence on the                  | measured serum TSH concentrations. TSH s<br>ilure at any level of regulation of the hypo | timulates the p        | roduction and secretion of the m | m. The variation is of the order of 50%.Hence time of<br>netabolically active hormones, thyroxine (T4)and<br>er underproduction (hypothyroidism) or |  |

overproduction(hyperthyroidism) of T4 and/or T3.

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

### LIMITATIONS:-

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

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

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

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

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





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| BARCODE NO.        | :01519341  | COLLECTION DATE          | : 22/Oct/2024 10:08AM                              |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB   | REPORTING DATE           | : 22/Oct/2024 12:08PM                              |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBALA   | CANTT                    |  |
|                    |  |                          | /  |
| Test Name          | Va   | lue Unit                 | Biological Reference interval                      |
| 6 12 Months        | 74 2 40 6 12 Months 7 10   | 16.16 6 12 Months 0      | 70 7 00  |

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

### INCREASED TSH LEVELS:

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

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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







| NAME           | : Mr. RANJIT MANKOTIA    |   |                |                               |  |
|----------------|--------------------------|---|----------------|-------------------------------|--|
| AGE/ GENDER    | : 73 YRS/MALE            | РАТ   | IENT ID        | : 1649964                     |  |
| COLLECTED BY   | : SURJESH                | REG   | . NO./LAB NO.  | : 012410220015                |  |
| REFERRED BY    | :                        | REG   | ISTRATION DATE | : 22/Oct/2024 09:29 AM        |  |
| BARCODE NO.    | :01519341                | COL   | LECTION DATE   | : 22/Oct/2024 10:08AM         |  |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB     | <b>REPORTING DATE</b> : 22/Oct/2024 11:22AM |                |                               |  |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CAN'I'I'                           |                |                               |  |
| Test Name      |                          | Value                                       | Unit           | Biological Reference interval |  |
|                |                          |   |                |                               |  |
|                | IN                       | /IMUNOPATHOLC                               | GY/SERULUGY    |                               |  |
|                | И                        | IMUNOPATHOLC<br>C-REACTIVE PRO              |                |                               |  |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 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.





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| NAME                        | : Mr. RANJIT MANKOTIA            |                              |                          |  |
|-----------------------------|----------------------------------|------------------------------|--------------------------|--|
| AGE/ GENDER                 | : 73 YRS/MALE                    |                              | PATIENT ID               | : 1649964                                      |
| COLLECTED BY                | : SURJESH                        |                              | REG. NO./LAB NO.         | : 012410220015                                 |
| REFERRED BY                 | :                                |                              | <b>REGISTRATION DATE</b> | : 22/Oct/2024 09:29 AM                         |
| BARCODE NO.                 | : 01519341                       |                              | COLLECTION DATE          | : 22/Oct/2024 10:08AM                          |
| CLIENT CODE.                | : KOS DIAGNOSTIC LAB             |                              | REPORTING DATE           | : 22/Oct/2024 12:18PM                          |
| CLIENT ADDRESS              | : 6349/1, NICHOLSON ROAD,        | AMBALA CANTI                 | Г                        |  |
| Test Name                   |                                  | Value                        | Unit                     | Biological Reference interval                  |
|                             |                                  | VI                           | AMINS                    |  |
|                             | VIT                              |                              | IYDROXY VITAMIN D3       |  |
| /ITAMIN D (25-HYD           | ROXY VITAMIN D3): SERUM          | 41.351                       | ng/mL                    | DEFICIENCY: < 20.0                             |
|                             | ESCENCE IMMUNOASSAY)             |                              | 0                        | INSUFFICIENCY: 20.0 - 30.0                     |
|                             |                                  |                              |                          | SUFFICIENCY: 30.0 - 100.0<br>TOXICITY: > 100.0 |
| NTERPRETATION:              |                                  |                              |                          |  |
| DEEL                        |                                  | 2.2                          |                          |  |
|                             | CIENT:                           | < 20                         |                          | g/mL   |
| INSUF                       | FICIENT:                         | 21 - 29                      | n                        | g/mL   |
| INSUF<br>Prefferi<br>Intoxi | FICIENT:<br>ED RANGE:<br>CATION: | 21 - 29<br>30 - 100<br>> 100 | n<br>n<br>n              | 9  |





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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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Page 17 of 22





| VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)         INTERPRETATION:-         INTERPRETATION:-         INCREASED VITAMIN B12         I.Ingestion of Vitamin C   | AGE / GENDER : 73 YRS/MALE PATIENT ID : 1649964<br>COLLECTED BY : SURJESH REG. NO./LAB NO. : 012410220015<br>REFERRED BY : REGISTRATION DATE : 22/Oct/2024 09:29 AM<br>BARCODE NO. : 01519341 COLLECTION DATE : 22/Oct/2024 10:08AM<br>CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Oct/2024 12:55PM<br>CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT<br>Test Name Value Unit Biological Reference interval<br>VITAMIN B12/COBALAMIN: SERUM 1546.75 <sup>H</sup> pg/mL 190.0 - 830<br>by CMMA (CHEMILUMINESCENT MICROPARTICLE MISSING)<br>NITERPRETATION:-<br>INCREASED VITAMIN B12 DECREASED VITAMIN B12  |   | Dr. Vinay Cl<br>MD (Pathology<br>Chairman & Co | Dr. Yugam Chopra<br>MD (Pathology)<br>CEO & Consultant Pathologist |                      |                               |                       |
|---|---|---|--|--|----------------------|-------------------------------|-----------------------|
| COLLECTED BY       : SURJESH       REG. NO./LAB NO.       : 012410220015         REFERRED BY       :       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       : 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>iMULNOASSAY)       1546.75 <sup>H</sup> pg/mL       190.0 - 830         INTERPRETATION:-       INCREASED VITAMIN B12       I.Pregnancy       Interpretation:- | Collected by       : SURJESH       REG. NO./LAB NO.       : 012410220015         REFERRED BY       :       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       : 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CILENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interval         VITAMIN B12/COBALAMIN:       SERUM       1546.75 <sup>H</sup> Pg/mL       190.0 - 830         by CMA (chemal Luminescent MICROPARTICLE       1.Pregnancy       2.Ingestion of Vitamin B12       1.Pregnancy         1.Ingestion of Vitamin C       1.Pregnancy       2.IngUGS: Aspirin, Anti-convulsants, Colchicine       3.Ingestion of Vitamin A       3.Ethanol lgestion         4.Hepatocellular injury       4. Contraceptive Harmones       5.Maemodialysis       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.       3.Indestion of Vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg. gastrectomy, gastric atrophy) or intestinal malabsorption (ideal resection, small intestinal diseases). | NAME  | : Mr. RANJIT MANKOTIA                          |  |                      |                               |                       |
| REFERRED BY       :       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       : 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       : 22/Oct/2024 12:55PM         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM       1546.75 <sup>H</sup> pg/mL       190.0 - 830         by CMIA (CHEMILUMINESCENT MICROPARTICLE INMUNOASSAY)       INCREASED VITAMIN B12       1.90.0 - 830         INTERPRETATION:-       INCREASED VITAMIN B12       1.90.0 - 830                           | REFERED BY       ::       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       ::       01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       ::       KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       ::       :       :       ::       ::       ::       ::       :       ::<:::::::::::::::::::::::::::::::::  | AGE/ GENDER   | : 73 YRS/MALE                                  | PAT  | ENT ID               | : 1649964                     |                       |
| REFERRED BY       :       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       : 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       : 22/Oct/2024 12:55PM         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMUNOASSAY)       1546.75 <sup>H</sup> pg/mL       190.0 - 830         INTERPRETATION:-       INCREASED VITAMIN B12       IPCREASED VITAMIN B12       1.1ngestion of Vitamin C       1.Pregnancy                   | REFERED BY       ::       REGISTRATION DATE       : 22/Oct/2024 09:29 AM         BARCODE NO.       :: 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       :: KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       :: 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interval         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         Intercent Microparticle         MICREASED VITAMIN B12         1.090.0 - 830         by Coma (chemuluminescent microparticle         INTERPRETATION::         INTERPRETATION::         INTERPRETATION::         INTERPRETATION:         INTERPRETATION::         INTERPRETATION::         INTERPRETATION::         INTERPRETATION:         INTERPRETATION:         INTERPRETATION:: <th>COLLECTED BY</th> <th>: SURIESH</th> <th>REG.</th> <th>NO./LAB NO.</th> <th>: 012410220015</th>   | COLLECTED BY  | : SURIESH                                      | REG.   | NO./LAB NO.          | : 012410220015                |                       |
| BARCODE NO.       : 01519341       COLLECTION DATE       : 22/Oct/2024 10:08AM         CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       :       :         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM       1546.75 <sup>H</sup> pg/mL       190.0 - 830         by CMIA (CHEMILUMINESCENT MICROPARTICLE INMUNOASSAY)       Interpretation:-       Increased vitamin B12         INCREASED VITAMIN B12       I.Pregnancy       Interpretation   | BARCODE NO. : 01519341 COLLECTION DATE : 22/Oct/2024 10:08AM<br>CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 22/Oct/2024 12:55PM<br>CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT<br>Test Name Value Unit Biological Reference interval<br>VITAMIN B12/COBALAMIN: SERUM 1546.75 <sup>H</sup> pg/mL 190.0 - 830<br>by CMA (CHEMILUMINESCENT MICROPARTICLE<br>MINUROASSAY)<br>INTERPRETATION:-<br>1.Ingestion of Vitamin B12<br>1.Ingestion of Vitamin A 2.DRUGS:Aspirin, Anti-convulsants, Colchicine<br>3.Ingestion of Vitamin A 3.Ethanol Igestion<br>4.Hepatocellular injury 4. Contraceptive Harmones<br>5.Myeloproliferative disorder 5.Haemodialysis<br>6.Uremia 6.Multiple Myeloma<br>1.Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.<br>2.In Junes to is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.<br>3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.<br>4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (Itel aresettion, small intestinal diseases).  |   |  |  |                      |                               |                       |
| CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interv         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)       1546.75 <sup>H</sup> pg/mL       190.0 - 830         INTERPRETATION:-       Increased VITAMIN B12       Increased VITAMIN B12       1.Pregnancy   | CLIENT CODE       KOS DIAGNOSTIC LAB       REPORTING DATE       : 22/Oct/2024 12:55PM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interval         Test Name       Value       Unit       Biological Reference interval         VITAMIN B12/COBALAMIN: SERUM       1546.75 <sup>H</sup> pg/mL       190.0 - 830         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>MMUNOASSAY)       Interval       DECREASED VITAMIN B12       190.0 - 830         Interpretations       DECREASED VITAMIN B12       190.0 - 830       190.0 - 830         Interpretation       DECREASED VITAMIN B12       190.0 - 830         1.Ingestion of Vitamin C       1.Pregnancy       2.       2.         2.Ingestion of Strogen       2. DRUGS: Aspirin, Anti-convulsants, Colchicine       3.       3.       Ethanol Igestion         4. Hepatocellular injury       4. Contraceptive Harmones       5.       5.       6.       1.       1.         1. Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.       3.       1.       3.       1.       3.  |   | ·<br>· 01510941                                |  |                      |                               |                       |
| CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN: SERUM       VITAMIN B12/COBALAMIN: SERUM       1546.75 <sup>H</sup> pg/mL       190.0 - 830         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)       Interpretation:-       DECREASED VITAMIN B12       1.1ngestion of Vitamin C       1.Pregnancy   | CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interval         VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)       1546.75 <sup>H</sup> Pg/mL       190.0 - 830         INTERPETATION:-<br>INTERPETATION:-<br>INTERPETATION:-<br>2.Ingestion of Vitamin C       1.Pregnancy       2.       2.0RUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion       4. Contraceptive Harmones       5.         6.Myeloproliferative disorder       5.Haemodialysis       6.       6.         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.       1.       1.       1.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.       3.       1.       1.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.       3.       3.       1.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver: very little is exercted.       4.         4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (lactor or mal intestinal diseases).       1.               |   |  |  |                      |                               |                       |
| Test Name       Value       Unit       Biological Reference interv         VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)         INTERPRETATION:-         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C  | Test Name       Value       Unit       Biological Reference interval         VITAMIN B12/COBALAMIN         VITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)         INTERPRETATION:-         INTERPRETATION:- <td colsp<="" td=""><td></td><td></td><td></td><td>DRIING DATE</td><td>: 22/Oct/2024 12:55PM</td></td>  | <td></td> <td></td> <td></td> <td>DRIING DATE</td> <td>: 22/Oct/2024 12:55PM</td> |  |  |                      | DRIING DATE                   | : 22/Oct/2024 12:55PM |
| VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)<br>INTERPRETATION:-<br>INCREASED VITAMIN B12<br>1.Ingestion of Vitamin C  | VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE         by CMIA (CHEMILUMINESCENT MICROPARTICLE       1546.75 <sup>H</sup> pg/mL       190.0 - 830         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C       1.Pregnancy         2.Ingestion of Vitamin A         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).   | CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD                       | , AMBALA CANTT   |                      |                               |                       |
| VITAMIN B12/COBALAMIN: SERUM       1546.75 <sup>H</sup> pg/mL       190.0 - 830         by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMMUNOASSAY)       INTERPRETATION:-       INCREASED VITAMIN B12         INTERPRETATION:-       DECREASED VITAMIN B12       1.1ngestion of Vitamin C       1.Pregnancy  | VITAMIN B12/COBALAMIN: SERUM<br>by CMIA (CHEMILUMINESCENT MICROPARTICLE<br>IMUNOASSAY)1546.75 <sup>H</sup> pg/mL190.0 - 830INTERPRETATION:-INTERPRETATION:-INTERPRETATION:-INCREASED VITAMIN B121.Pregnancy1.Ingestion of Vitamin C1.Pregnancy2.Ingestion of Estrogen2.DRUGS:Aspirin, Anti-convulsants, Colchicine3.Ingestion of Vitamin A3.Ethanol Igestion4. Contraceptive Harmones5.Myeloproliferative disorder5.Haemodialysis6. Uremia1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.2.In budy uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).   | Test Name   |  | Value  | Unit                 | Biological Reference interval |                       |
| 1.Ingestion of Vitamin C   1.Pregnancy  | 1.Ingestion of Vitamin C       1.Pregnancy         2.Ingestion of Estrogen       2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).   | IMḾUNOÀSSAY)<br><u>INTERPRETATION:-</u>   |  |  |                      |                               |                       |
|   | 2.Ingestion of Estrogen       2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).  |   |  | 1.5  | DECREASED VITAMI     | N B12                         |                       |
|   | 3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).  |   |  |  | ů ,                  |                               |                       |
|   | 4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).  |   |  |  |                      |                               |                       |
| <u> </u>  | 5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted.         4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).  |   |  | <b>,</b>   |                      |                               |                       |
|   | 1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.<br>2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.<br>3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is<br>excreted.<br>4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (<br>ileal resection, small intestinal diseases).   |   |  |  |                      |                               |                       |
| 6. Uremia 6. Multiple Myeloma   | 2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption. 3.The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is excreted. 4.Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ileal resection, small intestinal diseases).  | 6.Uremia  |  |  |                      |                               |                       |
| proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients the neurologic defects without macrocytic anemia.   |   |   | is without macrocytic anemia.                  | ls are also elevated in vi   | tamin B12 deficiency | vistates                      |                       |

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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|  |   | C <b>hopra</b><br>y & Microbiology)<br>consultant Pathologist   |  | (Pathology)  |
|--|---|---|--|--|
| NAME   | : Mr. RANJIT MANKOTIA   |   |  |  |
| AGE/ GENDER  | : 73 YRS/MALE   |   | PATIENT ID   | : 1649964  |
| COLLECTED BY   | : SURJESH   |   | REG. NO./LAB NO.   | : 012410220015   |
|  |   |   |  |  |
| REFERRED BY  | :   |   | REGISTRATION DATE  | : 22/Oct/2024 09:29 AM   |
| BARCODE NO.  | : 01519341  |   | COLLECTION DATE  | : 22/Oct/2024 10:08AM  |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB  |   | REPORTING DATE   | : 22/Oct/2024 01:45PM  |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROA   | D, AMBALA CANTT   |  |  |
| Test Name  |   | Value   | Unit   | Biological Reference interval  |
|  | DDC   |   | R MARKER<br>ANTIGEN (PSA) - TOT  |  |
|  | ANTIGEN (PSA) - TOTAL:  | 0.46  | ng/mL  | 0.0 - 4.0  |
| INTERPRETATION:<br>NOTE:<br>1. This is a recommer<br>2. False negative / po<br>3. PSA levels may app<br>4. Immediate PSA tes<br>needle biopsy of pros<br>5. PSA values regardle<br>correlated with clinic<br>6. Sites of Non-prosta<br>7. Physiological decre<br>sexual activity<br>8. The concentration<br>in assay methods, cal<br><b>RECOMMENDED TEST</b><br>1. Preoperatively (Ba:<br>2. 2-4 Days Post oper<br>3. Prior to discharge | sitive results are observed in<br>ear consistently elevated / de-<br>ting following digital rectal ex-<br>tate is not recommended as t<br>ess of levels should not be int-<br>al findings and results of oth<br>atic PSA production are breas<br>ease in PSA level by 18% has b<br>of PSA in a given specimen, de-<br>ibration, and reagent specific<br><b>ING INTERVALS</b><br>seline)<br>atively<br>from hospital | patients receiving metersed due to the in<br>commence of the internation, ejaculation, ejaculation, ejaculation<br>hey falsely elevate leer er investigations<br>t epithelium, salivary<br>een observed in hos<br>etermined with assay<br>city. | nouse monoclonal antiboo<br>nterference by heterophil<br>ion, prostatic massage, in<br>evels<br>evidence of the presence<br>y glands, peri-urethral & a<br>pitalized / sedentary patie | tion (DRE) in males above 50 years of age.<br>dies for diagnosis or therapy<br>lic antibodies & nonspecific protein binding<br>dwelling catheterization, ultrasonography and<br>e or absence of disease. All values should be<br>anal glands, cells of male urethra & breast milk<br>ents either due to supine position or suspended<br>curers, may not be comparable due to differences |
|  | if levels are high and showin<br>POST SURGERY   | g a rising trend  | FREQUENCY OF TESTIN  | IG   |
|  | 1st Year  |   | Every 3 Months   |  |
|  | 2 <sup>nd</sup> Year  |   | Every 4 Months   |  |
| 3  | <sup>rd</sup> Year Onwards  |   | Every 6 Months   |  |
| CLINICAL USE:<br>1. An aid in the early  |   |   |  | xamination in males more than 50 years of age  |

in those with two or more affected first degree relatives.

2. Followup and management of Prostate cancer patients.

3. Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

KOS Diagnostic Lab (A Unit of KOS Healthcare)

**INCREASED LEVEL:** 

- 1. Prostate cancer
- 2. Benign Prostatic Hyperplasia

3. Prostatitis



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





|                     | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Pathologi |                          | (Pathology)                          |
|---------------------|---|--------------------------|--------------------------------------|
| NAME                | : Mr. RANJIT MANKOTIA   |                          |                                      |
| AGE/ GENDER         | : 73 YRS/MALE   | PATIENT ID               | : 1649964                            |
| <b>COLLECTED BY</b> | : SURJESH   | REG. NO./LAB NO.         | : 012410220015                       |
| <b>REFERRED BY</b>  | :   | <b>REGISTRATION DATE</b> | : 22/Oct/2024 09:29 AM               |
| BARCODE NO.         | : 01519341  | <b>COLLECTION DATE</b>   | : 22/Oct/2024 10:08AM                |
| CLIENT CODE.        | : KOS DIAGNOSTIC LAB  | REPORTING DATE           | : 22/Oct/2024 01:45PM                |
| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, AMBALA CANTT  | ſ                        |                                      |
|                     |   |                          |                                      |
| Test Name           | Value   | Unit                     | <b>Biological Reference interval</b> |

4. Genitourinary infections



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|   | <b>Dr. Vinay Cho</b><br>MD (Pathology &<br>Chairman & Cons | Microbiology) MD                                       |                 | (Pathology)                   |  |
|---|--|--|-----------------|-------------------------------|--|
| NAME  | : Mr. RANJIT MANKOTIA                                      |  |                 |                               |  |
| AGE/ GENDER   | : 73 YRS/MALE  | PAT  | TIENT ID        | : 1649964                     |  |
| <b>COLLECTED BY</b>   | : SURJESH  | REG  | . NO./LAB NO.   | : 012410220015                |  |
| REFERRED BY   |  | REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE |                 | : 22/Oct/2024 09:29 AM        |  |
| BARCODE NO.   | : 01519341   |  |                 | : 22/Oct/2024 10:08AM         |  |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB                                       |  |                 | : 22/Oct/2024 10:08AM         |  |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, A                                |  | ORTING DATE     | . 22/ 000/ 2024 10.43AM       |  |
| Test Name   |  | Value  | Unit            | Biological Reference interval |  |
|   |  | CLINICAL PA  | THOLOGY         |                               |  |
|   | URINE RO   | OUTINE & MICRO   | SCOPIC EXAMINAT | ΓΙΟΝ                          |  |
| <b>PHYSICAL EXAMINA</b>                                     |  |  |                 |                               |  |
|   |  | 10   | ml              |                               |  |
| QUANTITY RECIEVED   | D<br>CTANCE SPECTROPHOTOMETRY                              | 10   | ml              |                               |  |
| COLOUR  |  | AMBER YELLO  | N               | PALE YELLOW                   |  |
| -   | TANCE SPECTROPHOTOMETRY                                    |  |                 |                               |  |
| TRANSPARANCY  |  | CLEAR  |                 | CLEAR                         |  |
| SPECIFIC GRAVITY  | TANCE SPECTROPHOTOMETRY                                    | 1.01   |                 | 1.002 - 1.030                 |  |
|   | TANCE SPECTROPHOTOMETRY                                    | 1.01   |                 | 1.002 1.000                   |  |
| CHEMICAL EXAMINA  | ATION  |  |                 |                               |  |
| REACTION  |  | NEUTRAL  |                 |                               |  |
| -   | TANCE SPECTROPHOTOMETRY                                    |  |                 |                               |  |
| PROTEIN   | TANCE SPECTROPHOTOMETRY                                    | Negative   |                 | NEGATIVE (-ve)                |  |
| SUGAR   | TANCE SPECTROPHOTOMETRY                                    | Negative   |                 | NEGATIVE (-ve)                |  |
|   | TANCE SPECTROPHOTOMETRY                                    | noganio  |                 |                               |  |
| рН  |  | 7  |                 | 5.0 - 7.5                     |  |
|   | CTANCE SPECTROPHOTOMETRY                                   | Nogetivo   |                 |                               |  |
| BILIRUBIN<br>by DIP STICK/REFLEC                            | TANCE SPECTROPHOTOMETRY                                    | Negative   |                 | NEGATIVE (-ve)                |  |
| NITRITE   |  | Negative   |                 | NEGATIVE (-ve)                |  |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.                 |  | Ŭ  |                 |                               |  |
| UROBILINOGEN  |  | Normal   | EU/dL           | 0.2 - 1.0                     |  |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY<br>KETONE BODIES |  | Negative   |                 | NEGATIVE (-ve)                |  |
|   | by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY                 |  |                 |                               |  |
| BLOOD   |  | Negative   |                 | NEGATIVE (-ve)                |  |
| by DIP STICK/REFLEC   | TANCE SPECTROPHOTOMETRY                                    | NEGATIVE (-ve  | )               | NEGATIVE (-ve)                |  |
|   | TANCE SPECTROPHOTOMETRY                                    | NLGATIVE (-Ve  | )               | NEGATIVE (-VE)                |  |
|   |  |  |                 |                               |  |

MICROSCOPIC EXAMINATION



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

| NAME                              | : Mr. RANJIT MANKOTIA                 |                       |                        |                               |  |
|-----------------------------------|---------------------------------------|-----------------------|------------------------|-------------------------------|--|
| AGE/ GENDER                       | : 73 YRS/MALE                         | PATIEN                | IT ID                  | : 1649964                     |  |
| COLLECTED BY                      |                                       |                       | D./LAB NO.             | 0. : 012410220015             |  |
| <b>REFERRED BY</b>                |                                       |                       | : 22/Oct/2024 09:29 AM |                               |  |
| BARCODE NO.                       | : 01519341                            | COLLEC                | CTION DATE             | : 22/Oct/2024 10:08AM         |  |
| CLIENT CODE. : KOS DIAGNOSTIC LAB |                                       | <b>REPORTING DATE</b> |                        | : 22/Oct/2024 10:43AM         |  |
| CLIENT ADDRESS                    | : 6349/1, NICHOLSON ROAD, A           | MBALA CANTT           |                        |                               |  |
| Test Name                         |                                       | Value                 | Unit                   | Biological Reference interval |  |
| RED BLOOD CELLS (F                | RBCs)<br>CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve)        | /HPF                   | 0 - 3                         |  |
| PUS CELLS<br>by MICROSCOPY ON (   | CENTRIFUGED URINARY SEDIMENT          | 1-3                   | /HPF                   | 0 - 5                         |  |
| EPITHELIAL CELLS                  |                                       | 0-2                   | /HPF                   | ABSENT                        |  |

| EPITHELIAL CELLS                              | 0-2            | /HPF | ABSENT         |  |
|---|----------------|------|----------------|--|
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |
| CRYSTALS                                      | NEGATIVE (-ve) |      | NEGATIVE (-ve) |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |
| CASTS   | NEGATIVE (-ve) |      | NEGATIVE (-ve) |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |
| BACTERIA                                      | NEGATIVE (-ve) |      | NEGATIVE (-ve) |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |
| OTHERS  | NEGATIVE (-ve) |      | NEGATIVE (-ve) |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |
| TRICHOMONAS VAGINALIS (PROTOZOA)              | ABSENT         |      | ABSENT         |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                |  |

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





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