

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|  | Dr. Vinay Chopra<br>MD (Pathology & Microb<br>Chairman & Consultant F |                    |                          | (Pathology) |                                    |
|--|---|--------------------|--------------------------|-------------|------------------------------------|
| NAME                                     | : Mrs. SAKSHI BISHT   |                    |                          |             |                                    |
| AGE/ GENDER                              | : 31 YRS/FEMALE   |                    | PATIENT ID               | : 1822276   | 3                                  |
| COLLECTED BY                             | : SURJESH   |                    | REG. NO./LAB NO.         | :012504     | 4080047                            |
| REFERRED BY                              | :   |                    | <b>REGISTRATION DATE</b> | :08/Apr/    | /2025 10:58 AM                     |
| BARCODE NO.                              | : 01528600  |                    | COLLECTION DATE          | -           | /2025 11:05AM                      |
| CLIENT CODE.                             | : KOS DIAGNOSTIC LAB  |                    | REPORTING DATE           | : 08/Apr/   | /2025 11:32AM                      |
| CLIENT ADDRESS                           | : 6349/1, NICHOLSON ROAD, AMBAL                                       | A CANT I           |                          |             |                                    |
| Test Name                                | V   | alue               | Unit                     |             | Biological Reference interval      |
|  | SWASTHV   | A WFI              | LLNESS PANEL: 1          | 5           |                                    |
|  |   |                    | DOD COUNT (CBC)          |             |                                    |
| RED BLOOD CELL                           | S (RBCS) COUNT AND INDICES  |                    |                          |             |                                    |
| HAEMOGLOBIN (HB                          |   | 12.8               | gm/dL                    |             | 12.0 - 16.0                        |
| by CALORIMETRIC                          |   | 4.71               |                          | ,           | 2.50 5.00                          |
| RED BLOOD CELL ()<br>by HYDRO DYNAMIC FO | RBC) COUNT<br>CUSING, ELECTRICAL IMPEDENCE                            | 4.71               | Millions                 | /cmm        | 3.50 - 5.00                        |
| PACKED CELL VOL                          |   | 40.2               | %                        |             | 37.0 - 50.0                        |
| MEAN CORPUSCUL                           | TOMATED HEMATOLOGY ANALYZER<br>AR VOLUME (MCV)                        | 85.5               | fL                       |             | 80.0 - 100.0                       |
| -  | TOMATED HEMATOLOGY ANALYZER<br>AR HAEMOGLOBIN (MCH)                   | 27.2               | 20                       |             | 27.0 - 34.0                        |
|  | TOMATED HEMATOLOGY ANALYZER   | 21.2               | pg                       |             | 27.0 - 54.0                        |
|  | AR HEMOGLOBIN CONC. (MCHC)<br>TOMATED HEMATOLOGY ANALYZER             | 31.8 <sup>L</sup>  | g/dL                     |             | 32.0 - 36.0                        |
| RED CELL DISTRIB                         | UTION WIDTH (RDW-CV)  | 14.6               | %                        |             | 11.00 - 16.00                      |
|  | TOMATED HEMATOLOGY ANALYZER<br>UTION WIDTH (RDW-SD)                   | 46.7               | fL                       |             | 35.0 - 56.0                        |
|  | TOMATED HEMATOLOGY ANALYZER   | 40.7               | IL                       |             | 55.0 - 50.0                        |
| MENTZERS INDEX<br>by CALCULATED          |   | 18.15              | RATIO                    |             | BETA THALASSEMIA TRAIT: 13.0       |
| by OALGOLATED                            |   |                    |                          |             | IS.0<br>IRON DEFICIENCY ANEMIA:    |
|  |   |                    |                          |             | >13.0                              |
| GREEN & KING IND<br>by CALCULATED        | EX  | 83.38              | RATIO                    |             | BETA THALASSEMIA TRAIT: <= 65.0    |
| by one obline b                          |   |                    |                          |             | <= 05.0<br>IRON DEFICIENCY ANEMIA: |
|  |   |                    |                          |             | 65.0                               |
| WHITE BLOOD CE                           |   |                    |                          |             |                                    |
| FOTAL LEUCOCYT                           | E COUNT (TLC)<br>BY SF CUBE & MICROSCOPY                              | 11620 <sup>H</sup> | /cmm                     |             | 4000 - 11000                       |
| NUCLEATED RED B                          | LOOD CELLS (nRBCS)  | NIL                |                          |             | 0.00 - 20.00                       |
|  | HEMATOLOGY ANALYZER   | NII                | 0/                       |             | < 10.04                            |
| NUCLEATED RED B                          | LOOD CELLS (nRBCS) %  | NIL                | %                        |             | < 10 %                             |





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|---|---|------------------|-------------------------------------|-------------------------------|
| NAME  | : Mrs. SAKSHI BISHT   |                  |                                     |                               |
| AGE/ GENDER   | : 31 YRS/FEMALE   | РАТ              | TIENT ID                            | : 1822276                     |
| <b>COLLECTED BY</b>   | : SURJESH   | REG              | . NO./LAB NO.                       | : 012504080047                |
| <b>REFERRED BY</b>  | :   | REG              | SISTRATION DATE                     | : 08/Apr/2025 10:58 AM        |
| BARCODE NO.   | : 01528600  | COL              | LECTION DATE                        | : 08/Apr/2025 11:05AM         |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB  | REP              | ORTING DATE                         | :08/Apr/2025 11:32AM          |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, AM  | BALA CANTT       |                                     |                               |
| Test Name   |   | Value            | Unit                                | Biological Reference interval |
|   | AUTOMATED HEMATOLOGY ANALYZER<br><b><u>EUCOCYTE COUNT (DLC)</u></b> |                  |                                     |                               |
| NEUTROPHILS   |   | 54               | %                                   | 50 - 70                       |
|   | RY BY SF CUBE & MICROSCOPY  |                  |                                     |                               |
| LYMPHOCYTES<br>by FLOW CYTOMETE                                   | RY BY SF CUBE & MICROSCOPY  | 36               | %                                   | 20 - 40                       |
| EOSINOPHILS   |   | 5                | %                                   | 1 - 6                         |
| ,   | RY BY SF CUBE & MICROSCOPY  | 5                | 0/                                  | 2 12                          |
| MONOCYTES<br>by FLOW CYTOMETR                                     | RY BY SF CUBE & MICROSCOPY  | 5                | %                                   | 2 - 12                        |
| BASOPHILS   |   | 0                | %                                   | 0 - 1                         |
|   | RY BY SF CUBE & MICROSCOPY<br><b>KOCYTES (WBC) COUNT</b>            |                  |                                     |                               |
| ABSOLUTE NEUT   |   | 6275             | /cmm                                | 2000 - 7500                   |
|   | RY BY SF CUBE & MICROSCOPY  | 0275             | /clillin                            | 2000 - 7500                   |
| ABSOLUTE LYMP   |   | 4183             | /cmm                                | 800 - 4900                    |
| ABSOLUTE EOSIN  | RY BY SF CUBE & MICROSCOPY<br>JOPHIL COUNT                          | 581 <sup>H</sup> | /cmm                                | 40 - 440                      |
| by FLOW CYTOMETR  | RY BY SF CUBE & MICROSCOPY  |                  | ,                                   |                               |
| ABSOLUTE MONO   | DCYTE COUNT<br>RY BY SF CUBE & MICROSCOPY                           | 581              | /cmm                                | 80 - 880                      |
| ABSOLUTE BASO   |   | 0                | /cmm                                | 0 - 110                       |
|   | RY BY SF CUBE & MICROSCOPY  |                  |                                     |                               |
|   | OTHER PLATELET PREDICTIV  |                  |                                     |                               |
| PLATELET COUN   | T (PLT)<br>FOCUSING, ELECTRICAL IMPEDENCE                           | 353000           | /cmm                                | 150000 - 450000               |
| PLATELETCRIT (  |   | 0.34             | %                                   | 0.10 - 0.36                   |
|   | FOCUSING, ELECTRICAL IMPEDENCE                                      | 10               |                                     | 6.50 12.0                     |
| MEAN PLATELET<br>by HYDRO DYNAMIC                                 | VOLUME (MPV)<br>FOCUSING, ELECTRICAL IMPEDENCE                      | 10               | fL                                  | 6.50 - 12.0                   |
| PLATELET LARG   | E CELL COUNT (P-LCC)  | 86000            | /cmm                                | 30000 - 90000                 |
|   | FOCUSING, ELECTRICAL IMPEDENCE<br>E CELL RATIO (P-LCR)              | 24.5             | %                                   | 11.0 - 45.0                   |
|   | E CELL KATIO (P-LCK)<br>FOCUSING, ELECTRICAL IMPEDENCE              | 24.3             | 70                                  | 11.0 - 40.0                   |
| PLATELET DISTR  | IBUTION WIDTH (PDW)   | 15.9             | %                                   | 15.0 - 17.0                   |
|   |   |                  |                                     |                               |



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|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbi<br>Chairman & Consultant Pa | ology) MD                | n Chopra<br>9 (Pathology)<br>t Pathologist |
|--------------------|--|--------------------------|--|
| NAME               | : Mrs. SAKSHI BISHT  |                          |  |
| AGE/ GENDER        | : 31 YRS/FEMALE  | PATIENT ID               | : 1822276                                  |
| COLLECTED BY       | : SURJESH  | <b>REG. NO./LAB NO.</b>  | : 012504080047                             |
| <b>REFERRED BY</b> | :  | <b>REGISTRATION DATE</b> | : 08/Apr/2025 10:58 AM                     |
| BARCODE NO.        | : 01528600   | <b>COLLECTION DATE</b>   | : 08/Apr/2025 11:05AM                      |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB   | <b>REPORTING DATE</b>    | : 08/Apr/2025 11:32AM                      |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBALA   | CANTT                    |  |
| Test Name          | Va   | alue Unit                | Biological Reference interval              |

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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|--------------------|--|---|-------------------------------------|--------------------------------------|
| NAME               | : Mrs. SAKSHI BISHT  |   |                                     |                                      |
| AGE/ GENDER        | : 31 YRS/FEMALE  | PA  | FIENT ID                            | : 1822276                            |
| COLLECTED BY       | : SURJESH  | REG   | G. NO./LAB NO.                      | : 012504080047                       |
| <b>REFERRED BY</b> | :  | REG   | <b>GISTRATION DATE</b>              | : 08/Apr/2025 10:58 AM               |
| BARCODE NO.        | :01528600  | COL   | LECTION DATE                        | : 08/Apr/2025 11:05AM                |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB   | REI   | PORTING DATE                        | : 08/Apr/2025 02:06PM                |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AM   | IBALA CANTT   |                                     |                                      |
| Test Name          |  | Value   | Unit                                | <b>Biological Reference interval</b> |
|                    | GLYCOS   | YLATED HAEN   | MOGLOBIN (HBA                       | 1C)                                  |
| WHOLE BLOOD        | IAEMOGLOBIN (HbA1c):   | 5.6   | %                                   | 4.0 - 6.4                            |
| ESTIMATED AVERA    | RMANCE LIQUID CHROMATOGRAPHY)<br>AGE PLASMA GLUCOSE<br>RMANCE LIQUID CHROMATOGRAPHY) | 114.02  | mg/dL                               | 60.00 - 140.00                       |
| INTERPRETATION:    |  |   | N (ADA):                            |                                      |
|                    | REFERENCE GROUP  | ABETES ASSOCIATION (ADA):<br>GLYCOSYLATED HEMOGLOGIB (HBAIC) in % |                                     | (HBAIC) in %                         |
| Non dia            | abetic Adults >= 18 years  | /   | <5.7                                |                                      |
| A                  | t Risk (Prediabetes)   |   | 5.7 - 6.4                           |                                      |
| D                  | iagnosing Diabetes   |   | >= 6.5                              |                                      |
|                    |  |   | Age > 19 Years                      |                                      |
| Theresis           |  | Goals of T  |                                     | < 7.0                                |
| inerapeut          | ic goals for glycemic control  | Actions Sug   |                                     | >8.0                                 |
|                    |  |   | Age < 19 Years                      | 7.5                                  |
|                    |  | Goal of th  | nerapy:                             | <7.5                                 |

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

### 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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|--|--|---|---|--|---|
| NAME<br>AGE/ GENDER<br>COLLECTED BY<br>REFERRED BY<br>BARCODE NO.<br>CLIENT CODE.<br>CLIENT ADDRESS  | : Mrs. SAKS<br>: 31 YRS/FE<br>: SURJESH<br>:<br>: 01528600<br>: KOS DIAGN<br>: 6349/1, NJ  | MALE  | BALA CANT   | PATIENT ID<br>REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE   | : 1822276<br><b>: 012504080047</b><br>: 08/Apr/2025 10:58 AM<br>: 08/Apr/2025 11:05AM<br>: 08/Apr/2025 11:54AM  |
| Test Name  |  |   | Value   | Unit   | Biological Reference interval   |
|  |  | ERYTHROC  | CYTE SED  | IMENTATION RATE  | C (ESR)   |
| immune disease, but of<br>2. An ESR can be affect<br>as C-reactive protein<br>3. This test may also be<br>systemic lupus erythe<br><b>CONDITION WITH LOV</b><br>A low ESR can be seer<br>(polycythaemia), signi<br>as sickle cells in sickle<br><b>NOTE:</b><br>1. ESR and C - reactive<br>2. Generally, ESR does<br>3. <b>CRP is not affected</b><br>4. If the ESR is elevate<br>5. Women tend to hav | c test because<br>does not tell t<br>ted by other<br>be used to mo<br>matosus<br><b>V ESR</b><br>n with condition<br>ficantly high<br>e cell anaemia<br>protein (C-RF<br>s not change a<br>by as many ot<br>cd, it is typical<br>re a higher ES<br>ran, methyldo | ILLARY PHOTOMETRY<br>e an elevated result of<br>he health practitioner<br>conditions besides infl<br>nitor disease activity a<br>ons that inhibit the no<br>white blood cell count<br>a) also lower the ESR.<br>P) are both markers of<br>as rapidly as does CRP,<br>her factors as is ESR, n<br>ly a result of two type<br>R, and menstruation a<br>pa, oral contraceptive | r exactly whe<br>lammation. F<br>and response<br>prmal sedime<br>t (leucocytos<br>f inflammatio<br>, either at the<br>naking it a be<br>es of proteins<br>nd pregnanc | re the inflammation is in the<br>for this reason, the ESR is ty<br>e to therapy in both of the a<br>ntation of red blood cells, s<br>is) , and some protein abno<br>n.<br>e start of inflammation or a<br>etter marker of inflammatio<br>s, globulins or fibrinogen.<br>y can cause temporary elev | tion associated with infection, cancer and auto-<br>be body or what is causing it.<br>pically used in conjunction with other test such<br>above diseases as well as some others, such as<br>such as a high red blood cell count<br>formalities. Some changes in red cell shape (such<br>as it resolves.<br><b>n</b> . |

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|                                      |              | MD (Pathology &<br>Chairman & Cor | & Microbiology)<br>nsultant Pathologist | MD<br>CEO & Consultant       | (Pathology)<br>Pathologist  |
|--------------------------------------|--------------|-----------------------------------|---|------------------------------|---|
| NAME                                 | : Mrs. SAKSI | HI BISHT                          |   |                              |   |
| AGE/ GENDER                          | : 31 YRS/FEM | <b>/</b> IALE                     | Р                                       | ATIENT ID                    | : 1822276   |
| COLLECTED BY                         | : SURJESH    |                                   | R                                       | EG. NO./LAB NO.              | : 012504080047  |
| REFERRED BY                          | :            |                                   | R                                       | EGISTRATION DATE             | :08/Apr/2025 10:58 AM   |
| BARCODE NO.                          | :01528600    |                                   | С                                       | OLLECTION DATE               | : 08/Apr/2025 11:05AM   |
| CLIENT CODE.                         | : KOS DIAGN  | OSTIC LAB                         | R                                       | EPORTING DATE                | : 08/Apr/2025 03:08PM   |
| LIENT ADDRESS                        | : 6349/1, NI | CHOLSON ROAD,                     | , AMBALA CANTT                          |                              |   |
| Test Name                            |              |                                   | Value                                   | Unit                         | <b>Biological Reference interval</b>                                    |
|                                      |              |                                   | GLUCOSE I<br>103.7 <sup>H</sup>         | F <b>ASTING (F)</b><br>mg/dL | NORMAL: < 100.0   |
| GLUCOSE FASTIN<br>by glucose oxidas. |              |                                   |   |                              | NORMAL: < 100.0<br>PREDIABETIC: 100.0 - 125.0<br>DIABETIC: > 0R = 126.0 |

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| SHI BISHT<br>EMALE<br>)<br>SNOSTIC LAB<br>NICHOLSON ROAD, AM | R<br>R<br>Cu<br>R<br>MBALA CANTT<br>Value     | PATIENT ID<br>REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE<br>Unit<br>FILE : BASIC<br>mg/dL | : 1822276<br>: 012504080047<br>: 08/Apr/2025 10:58 AM<br>: 08/Apr/2025 11:05AM<br>: 08/Apr/2025 03:08PM<br>Biological Reference interval<br>OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -<br>239.0 |
|--|---|---|---|
| )<br>GNOSTIC LAB<br>NICHOLSON ROAD, AM                       | R<br>R<br>Cu<br>R<br>MBALA CANTT<br>Value     | EEG. NO./LAB NO.<br>EEGISTRATION DATE<br>COLLECTION DATE<br>EEPORTING DATE<br>Unit  | : 012504080047<br>: 08/Apr/2025 10:58 AM<br>: 08/Apr/2025 11:05AM<br>: 08/Apr/2025 03:08PM<br>Biological Reference interval<br>OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -                       |
| SNOSTIC LAB<br>NICHOLSON ROAD, AM                            | R<br>Cu<br>R<br>MBALA CANTT<br>Value          | REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE<br>Unit<br>FILE : BASIC  | : 08/Apr/2025 10:58 AM<br>: 08/Apr/2025 11:05AM<br>: 08/Apr/2025 03:08PM<br>Biological Reference interval<br>OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -   |
| SNOSTIC LAB<br>NICHOLSON ROAD, AM                            | CI<br>R<br>IBALA CANTT<br>Value<br>LIPID PROF | COLLECTION DATE<br>REPORTING DATE<br>Unit   | : 08/Apr/2025 11:05AM<br>: 08/Apr/2025 03:08PM<br>Biological Reference interval<br>OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -   |
| SNOSTIC LAB<br>NICHOLSON ROAD, AM                            | R<br>IBALA CANTT<br>Value                     | EEPORTING DATE Unit FILE : BASIC  | : 08/Apr/2025 03:08PM<br>Biological Reference interval<br>OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -  |
| NICHOLSON ROAD, AM   | IBALA CANTT<br>Value<br>LIPID PROF            | Unit<br>FILE : BASIC  | Biological Reference interval OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 -   |
| М  | Value<br>LIPID PROF                           | FILE : BASIC  | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -  |
|  | LIPID PROF                                    | FILE : BASIC  | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -  |
|  |   |   | BORDERLINE HIGH: 200.0 -  |
|  | 184.72  | mg/dL   | BORDERLINE HIGH: 200.0 -  |
|  |   |   | HIGH CHOLESTEROL: > OR =  |
| L (LNZ IMATIC)   | 80.46   | mg/dL   | 240.0<br>OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 -<br>199.0<br>HIGH: 200.0 - 499.0   |
|  |   |   | VERY HIGH: $>$ OR $=$ 500.0   |
| ): SERUM   | 44.08   | mg/dL   | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0  |
| IETRY  | 124.55  | mg/dL   | HIGH HDL: > OR = 60.0<br>OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 -<br>159.0<br>HIGH: 160.0 - 189.0<br>WEDV HIGH: 2 OD = 100.0                                  |
| RUM<br>METRY   | 140.64 <sup>H</sup>                           | mg/dL   | VERY HIGH: > OR = 190.0<br>OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 -<br>189.0<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0                                |
| [<br>//ETRY  | 16.09   | mg/dL   | 0.00 - 45.00  |
|  | 449.9   | mg/dL   | 350.00 - 700.00   |
| ERUM<br>METRY  | 4.19  | RATIO   | LOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0   |
|  | RUM<br>Metry<br>Metry<br>Metry<br>ERUM        | RUM<br>METRY<br>I 140.64 <sup>H</sup><br>16.09<br>METRY<br>449.9<br>METRY<br>ERUM 4.19                                    | RUM<br>METRY<br>I 40.64 <sup>H</sup> mg/dL<br>METRY<br>I 16.09 mg/dL<br>METRY<br>449.9 mg/dL<br>METRY<br>ERUM 4.19 RATIO  |

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|  |                          | hopra<br>& Microbiology)<br>onsultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)   |
|--|--------------------------|---|-------------------------------------|---|
| NAME                                   | : Mrs. SAKSHI BISHT      |   |                                     |   |
| AGE/ GENDER                            | : 31 YRS/FEMALE          | PATI  | ENT ID                              | : 1822276   |
| <b>COLLECTED BY</b>                    | : SURJESH                | REG.  | NO./LAB NO.                         | : 012504080047  |
| <b>REFERRED BY</b>                     | :                        | REGI  | STRATION DATE                       | : 08/Apr/2025 10:58 AM  |
| BARCODE NO.                            | : 01528600               | COLL  | ECTION DATE                         | : 08/Apr/2025 11:05AM   |
| CLIENT CODE.                           | : KOS DIAGNOSTIC LAB     | REPO  | RTING DATE                          | : 08/Apr/2025 03:08PM   |
| CLIENT ADDRESS                         | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT                                    |                                     |   |
| Test Name                              |                          | Value   | Unit                                | <b>Biological Reference interval</b>                                  |
|  |                          |   |                                     | MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0                       |
| LDL/HDL RATIO: S<br>by CALCULATED, SPE |                          | 2.83  | RATIO                               | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0 |
| TRIGLYCERIDES/I<br>by CALCULATED, SPE  | HDL RATIO: SERUM         | 1.83 <sup>L</sup>                                 | RATIO                               | 3.00 - 5.00   |

# INTERPRETATION:

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

 Cow 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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|   | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Micr<br>Chairman & Consultan | obiology)           | Dr. Yugam<br>MD (<br>CEO & Consultant | (Pathology)                               |
|---|---|---------------------|---------------------------------------|---|
| NAME  | : Mrs. SAKSHI BISHT   |                     |                                       |   |
| AGE/ GENDER                                     | : 31 YRS/FEMALE   | F                   | PATIENT ID                            | : 1822276                                 |
| COLLECTED BY                                    | : SURJESH   | F                   | REG. NO./LAB NO.                      | : 012504080047                            |
| <b>REFERRED BY</b>                              | :   | F                   | REGISTRATION DATE                     | : 08/Apr/2025 10:58 AM                    |
| BARCODE NO.                                     | : 01528600  | (                   | COLLECTION DATE                       | : 08/Apr/2025 11:05AM                     |
| CLIENT CODE.                                    | : KOS DIAGNOSTIC LAB  | F                   | REPORTING DATE                        | : 08/Apr/2025 04:29PM                     |
| CLIENT ADDRESS                                  | : 6349/1, NICHOLSON ROAD, AMBA  | ALA CANTT           |                                       | 1   |
|   |   |                     |                                       |   |
| Test Name                                       |   | Value               | Unit                                  | <b>Biological Reference interval</b>      |
|   | LIVER F   | UNCTION             | TEST (COMPLETE)                       | )   |
| BILIRUBIN TOTAL<br>by DIAZOTIZATION, SI         | : SERUM<br>PECTROPHOTOMETRY   | 0.85                | mg/dL                                 | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
|   | T (CONJUGATED): SERUM   | 0.31                | mg/dL                                 | 0.00 - 0.40                               |
| BILIRUBIN INDIRI<br>by CALCULATED, SPE          | ECT (UNCONJUGATED): SERUM   | 0.54                | mg/dL                                 | 0.10 - 1.00                               |
| SGOT/AST: SERUN<br>by IFCC, WITHOUT PY          | Л<br>RIDOXAL PHOSPHATE  | 40.6                | U/L                                   | 7.00 - 45.00                              |
| SGPT/ALT: SERUN<br>by IFCC, WITHOUT PY          | Í<br>RIDOXAL PHOSPHATE  | 116.4 <sup>H</sup>  | U/L                                   | 0.00 - 49.00                              |
| AST/ALT RATIO: S<br>by CALCULATED, SPE          |   | 0.35                | RATIO                                 | 0.00 - 46.00                              |
| ALKALINE PHOSP<br>by PARA NITROPHEN<br>PROPANOL | HATASE: SERUM<br>YL PHOSPHATASE BY AMINO METHYL                         | 133.25 <sup>H</sup> | U/L                                   | 40.0 - 130.0                              |
| GAMMA GLUTAM<br>by SZASZ, SPECTROF              | YL TRANSFERASE (GGT): SERUM<br>Phtometry                                | 85.67 <sup>H</sup>  | U/L                                   | 0.00 - 55.0                               |
| TOTAL PROTEINS<br>by BIURET, SPECTRO            |   | 6.6                 | gm/dL                                 | 6.20 - 8.00                               |
| ALBUMIN: SERUM<br>by BROMOCRESOL G              |   | 3.66                | gm/dL                                 | 3.50 - 5.50                               |
| GLOBULIN: SERUN<br>by CALCULATED, SPE           | Λ   | 2.94                | gm/dL                                 | 2.30 - 3.50                               |
| A : G RATIO: SERU<br>by CALCULATED, SPE         | JM  | 1.24                | 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. Vinay Chop<br>MD (Pathology & M<br>Chairman & Consul | licrobiology) MD         | (Pathology)                   |
|--------------------|--|--------------------------|-------------------------------|
| NAME               | : Mrs. SAKSHI BISHT                                      |                          |                               |
| AGE/ GENDER        | : 31 YRS/FEMALE  | PATIENT ID               | : 1822276                     |
| COLLECTED BY       | : SURJESH  | REG. NO./LAB NO.         | : 012504080047                |
| <b>REFERRED BY</b> | :  | <b>REGISTRATION DATE</b> | : 08/Apr/2025 10:58 AM        |
| BARCODE NO.        | : 01528600   | COLLECTION DATE          | : 08/Apr/2025 11:05AM         |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB                                     | <b>REPORTING DATE</b>    | : 08/Apr/2025 04:29PM         |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AM                             | /IBALA CANTT             |                               |
| Test Name          |  | Value Unit               | Biological Reference interval |
| L HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS                             | > 1.3 (Slightly Inc      | creased)                      |

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

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

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

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Page 10 of 20





|   | Dr. Vinay Cho<br>MD (Pathology &<br>Chairman & Cons |                   | Microbiology) MD (Pathology) |                               |
|---|---|-------------------|------------------------------|-------------------------------|
| NAME                                    | : Mrs. SAKSHI BISHT                                 |                   |                              |                               |
| AGE/ GENDER                             | : 31 YRS/FEMALE                                     | P                 | ATIENT ID                    | : 1822276                     |
| COLLECTED BY                            | : SURJESH   | R                 | EG. NO./LAB NO.              | : 012504080047                |
| <b>REFERRED BY</b>                      | :   | R                 | EGISTRATION DATE             | : 08/Apr/2025 10:58 AM        |
| BARCODE NO.                             | :01528600   | C                 | OLLECTION DATE               | : 08/Apr/2025 11:05AM         |
| CLIENT CODE.                            | : KOS DIAGNOSTIC LAB                                | R                 | EPORTING DATE                | : 08/Apr/2025 03:08PM         |
| CLIENT ADDRESS                          | : 6349/1, NICHOLSON ROAD, A                         | MBALA CANTT       |                              |                               |
| Test Name                               |   | Value             | Unit                         | Biological Reference interval |
|   | KIDNE   | Y FUNCTION        | TEST (COMPLETE               | E)                            |
| UREA: SERUM                             |   | 19.79             | mg/dL                        | 10.00 - 50.00                 |
| by UREASE - GLUTAN                      | IATE DEHYDROGENASE (GLDH)                           |                   |                              |                               |
| CREATININE: SER                         |   | 0.87              | mg/dL                        | 0.40 - 1.20                   |
| •                                       | ROGEN (BUN): SERUM                                  | 9.25              | mg/dL                        | 7.0 - 25.0                    |
| by CALCULATED, SPE                      | ECTROPHOTOMETRY                                     |                   |                              |                               |
|   | ROGEN (BUN)/CREATININE                              | 10.63             | RATIO                        | 10.0 - 20.0                   |
| RATIO: SERUM<br>by CALCULATED, SPE      | ECTROPHOTOMETRY                                     |                   |                              |                               |
| UREA/CREATININ                          |   | 22.75             | RATIO                        |                               |
|   | ECTROPHOTOMETRY                                     |                   |                              |                               |
| URIC ACID: SERUN<br>by URICASE - OXIDAS |   | 7.22 <sup>H</sup> | mg/dL                        | 2.50 - 6.80                   |
| CALCIUM: SERUM                          |   | 10.2              | mg/dL                        | 8.50 - 10.60                  |
| by ARSENAZO III, SPE                    |   |                   | -                            |                               |
| PHOSPHOROUS: S                          | ERUM<br>DATE, SPECTROPHOTOMETRY                     | 3.32              | mg/dL                        | 2.30 - 4.70                   |
| ELECTROLYTES                            |   |                   |                              |                               |
| SODIUM: SERUM                           |   | 145.2             | mmol/L                       | 135.0 - 150.0                 |
| by ISE (ION SELECTIV                    | (E ELECTRODE)                                       | 1.0.12            |                              |                               |
| POTASSIUM: SERU                         |   | 4.33              | mmol/L                       | 3.50 - 5.00                   |
| by ISE (ION SELECTIV<br>CHLORIDE: SERUN |   | 108.9             | mmol/L                       | 90.0 - 110.0                  |
| by ISE (ION SELECTIV                    |   | 100.7             |                              |                               |
| ESTIMATED GLO                           | MERULAR FILTERATION RAT                             | <u>re</u>         |                              |                               |
|   | MERULAR FILTERATION RATE                            | E 91.3            |                              |                               |
| (eGFR): SERUM                           |   |                   |                              |                               |
| INTERPRETATION:                         |   |                   |                              |                               |
|   | een pre- and post renal azotemia.                   |                   |                              |                               |

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.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





|   | Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist   |  | (Pathology)    |                                     |                         |
|---|--|--|----------------|-------------------------------------|-------------------------|
| NAME  | : Mrs. SAKSHI BISHT  |  |                |                                     |                         |
| AGE/ GENDER   | : 31 YRS/FEMALE  | PATIE  | NT ID          | : 1822276                           |                         |
| COLLECTED BY  | : SURJESH  | REG. N   | IO./LAB NO.    | :012504080047                       |                         |
| REFERRED BY   | :  |  | TRATION DATE   | :08/Apr/2025 10:58                  | 3 AM                    |
| BARCODE NO.   | : 01528600   |  | CTION DATE     | : 08/Apr/2025 11:05                 |                         |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB   |  | RTING DATE     | : 08/Apr/2025 03:08                 |                         |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, A  |  |                | . 00/1101/2020 00.00                | /1 //1                  |
|   | . 0040/ 1, Menolocion Romb, /  |  |                |                                     |                         |
| Test Name   |  | Value  | Unit           | Biological                          | Reference interval      |
| DECREASED RATIO (<<br>1. Acute tubular necr<br>2. Low protein diet ar<br>3. Severe liver diseas<br>4. Other causes of de<br>5. Repeated dialysis<br>6. Inherited hyperam<br>7. SIADH (syndrome of<br>8. Pregnancy.<br>DECREASED RATIO (<<br>1. Phenacimide thera<br>2. Rhabdomyolysis (r<br>3. Muscular patients<br>INAPPROPIATE RATIO<br>1. Diabetic ketoacido<br>should produce an in | nd starvation.<br>e.<br>ecreased urea synthesis.<br>(urea rather than creatinine diffu:<br>imonemias (urea is virtually abser<br>of inappropiate antidiuretic harmo<br><b>10:1) WITH INCREASED CREATININ</b><br>apy (accelerates conversion of cre<br>releases muscle creatinine).<br>who develop renal failure. | nt in blood).<br>one) due to tubular secr<br><b>E:</b><br>atine to creatinine).<br>crease in creatinine with | etion of urea. | ogies,resulting in norma            | l ratio when dehydratio |
|   | JLAR FILTERATION RATE:   |  | (1 72m2)       |                                     | I                       |
| CKD STAGE<br>G1   | DESCRIPTION<br>Normal kidney function  | GFR (mL/min/   | (1.73m2) AS    | SOCIATED FINDINGS<br>No proteinuria |                         |
| G1<br>G2  | Kidney damage wit  |  | P              | resence of Protein ,                |                         |
|   | normal or high GFF   |  |                | oumin or cast in urine              |                         |

| G2  | G2 Kidney damage with    |        | Presence of Protein ,    |
|-----|--------------------------|--------|--------------------------|
|     | normal or high GFR       |        | Albumin or cast in urine |
| G3a | Mild decrease in GFR     | 60 -89 |                          |
| G3b | Moderate decrease in GFR | 30-59  |                          |
| G4  | Severe decrease in GFR   | 15-29  |                          |
| G5  | Kidney failure           | <15    |                          |
|     |                          |        |                          |



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|                     | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiol<br>Chairman & Consultant Pat | G, /                     | (Pathology)                          |
|---------------------|---|--------------------------|--------------------------------------|
| NAME                | : Mrs. SAKSHI BISHT   |                          |                                      |
| AGE/ GENDER         | : 31 YRS/FEMALE   | PATIENT ID               | : 1822276                            |
| <b>COLLECTED BY</b> | : SURJESH   | <b>REG. NO./LAB NO.</b>  | : 012504080047                       |
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| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, AMBALA (  | CANTT                    |                                      |
|                     |   |                          |                                      |
| Test Name           | Val   | ue Unit                  | <b>Biological Reference interval</b> |

COMMENTS:

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

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

ADVICE:

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





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|--|--|----------------|-------------------------------------|--------------------------------------|
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| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AMB  | ALA CANTT      |                                     |                                      |
| Test Name  |  | Value          | Unit                                | <b>Biological Reference interval</b> |
|  |  | IRON PI        | ROFILE                              |                                      |
| IRON: SERUM<br>by FERROZINE, SPEC  | TROPHOTOMETRY  | 67.31          | μg/dL                               | 37.0 - 145.0                         |
| UNSATURATED IF   | RON BINDING CAPACITY (UIBC)  | 298.99         | μg/dL                               | 150.0 - 336.0                        |
| SERUM  |  |                |                                     |                                      |
| by FERROZINE, SPECTROPHOTOMETERY<br>TOTAL IRON BINDING CAPACITY (TIBC)               |  |                |                                     |                                      |
| •  |  | 366.3          | ug/dL                               | 230 - 430                            |
| TOTAL IRON BINI  |  | 366.3          | μg/dL                               | 230 - 430                            |
| TOTAL IRON BINI<br>SERUM<br>by SPECTROPHOTON   | DING CAPACITY (TIBC)   |                |                                     |                                      |
| TOTAL IRON BINI<br>SERUM<br>by SPECTROPHOTON<br>%TRANSFERRIN S                       | DING CAPACITY (TIBC)<br>NETERY<br>SATURATION: SERUM                                      | 366.3<br>18.38 | μg/dL<br>%                          | 230 - 430<br>15.0 - 50.0             |
| TOTAL IRON BINI<br>SERUM<br>by SPECTROPHOTON<br>%TRANSFERRIN S                       | DING CAPACITY (TIBC)<br>METERY<br>SATURATION: SERUM<br>SCTROPHOTOMETERY (FERENE)         |                |                                     |                                      |
| TOTAL IRON BINI<br>SERUM<br>by SPECTROPHOTON<br>%TRANSFERRIN S<br>by CALCULATED, SPE | DING CAPACITY (TIBC)<br>METERY<br>SATURATION: SERUM<br>SCTROPHOTOMETERY (FERENE)<br>ERUM | 18.38          | %                                   | 15.0 - 50.0                          |

| 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.

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):

 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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|  | MD (Path                                    | Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist |                                   |  |                |  |
|--|---|--|-----------------------------------|--|----------------|--|
| NAME   | : Mrs. SAKSHI BISHT                         |  |                                   |  |                |  |
| AGE/ GENDER  | : 31 YRS/FEMALE                             |  | PATIENT ID                        | : 1822276  |                |  |
| COLLECTED BY                                       | : SURJESH                                   |  | <b>REG. NO./LAB NO.</b>           | : 012504080047   |                |  |
| REFERRED BY  | :   |  | <b>REGISTRATION DATE</b>          | : 08/Apr/2025 10:58 AM   |                |  |
| BARCODE NO.  | :01528600                                   |  | <b>COLLECTION DATE</b>            | : 08/Apr/2025 11:05AM  |                |  |
| CLIENT CODE.                                       | : KOS DIAGNOSTIC LAP                        | 3  | <b>REPORTING DATE</b>             | : 08/Apr/2025 03:08PM  |                |  |
| CLIENT ADDRESS                                     | : 6349/1, NICHOLSON                         | ROAD, AMBALA CAN   | JTT                               |  |                |  |
| Test Name  |   | Value  | Unit                              | Biological Refe  | rence interval |  |
|  |   | ENDO   | CRINOLOGY                         |  |                |  |
|  |   | THYROID FU   | NCTION TEST: TOTA                 | L  |                |  |
| TRIIODOTHYRON<br>by CMIA (CHEMILUMIN               | INE (T3): SERUM<br>IESCENT MICROPARTICLE IM | 0.963<br>MUNOASSAY)  | ng/mL                             | 0.35 - 1.93  |                |  |
| THYROXINE (T4):<br>by CMIA (CHEMILUMIN             | SERUM<br>IESCENT MICROPARTICLE IM           | 8.85<br>MUNOASSAY)   | μgm/d                             | L 4.87 - 12.60   |                |  |
|  | ATING HORMONE (TS                           |  | μIU/m                             | L 0.35 - 5.50  |                |  |
| 3rd GENERATION, ULT                                |   |  |                                   |  |                |  |
| INTERPRETATION:                                    |   |  |                                   |  |                |  |
| day has influence on the trilodothyronine (T3).Fai | measured serum TSH concentra                | ations. TSH stimulates the   | e production and secretion of the | 0 pm. The variation is of the order of 5<br>e metabolically active hormones, thyr<br>ther underproduction (hypothyroidis | oxine (T4)and  |  |
| CLINICAL CONDITION                                 | T   | 3  | T4                                | TSH  | ]              |  |
| Primary Hypothyroidis                              | m: Re                                       | educed   | Reduced                           | Increased (Significantly)  | ]              |  |

| 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         | TRIIODOTHYRONINE (T3) THYROXINE (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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







|                     | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiolog<br>Chairman & Consultant Patho |                          | (Pathology)                   |
|---------------------|---|--------------------------|-------------------------------|
| NAME                | : Mrs. SAKSHI BISHT   |                          |                               |
| AGE/ GENDER         | : 31 YRS/FEMALE   | PATIENT ID               | : 1822276                     |
| <b>COLLECTED BY</b> | : SURJESH   | <b>REG. NO./LAB NO.</b>  | : 012504080047                |
| <b>REFERRED BY</b>  | :   | <b>REGISTRATION DATE</b> | : 08/Apr/2025 10:58 AM        |
| BARCODE NO.         | : 01528600  | <b>COLLECTION DATE</b>   | : 08/Apr/2025 11:05AM         |
| CLIENT CODE.        | : KOS DIAGNOSTIC LAB  | REPORTING DATE           | : 08/Apr/2025 03:08PM         |
| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, AMBALA CA   | NTT                      |                               |
| Test Name           | Value   | unit                     | Biological Reference interval |

| Test Name           |               |                      | Value             | Unit                | t           | Biological Reference interval |
|---------------------|---------------|----------------------|-------------------|---------------------|-------------|-------------------------------|
| 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   |                               |
|                     | RECOMI        | MENDATIONS OF TSH LI | EVELS DURING PREG | NANCY ( 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)







|                    | <b>Dr. Vinay Cho</b><br>MD (Pathology &<br>Chairman & Cons | Microbiology)        | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)  |
|--------------------|--|----------------------|-------------------------------------|--|
| NAME               | : Mrs. SAKSHI BISHT  |                      |                                     |  |
| AGE/ GENDER        | : 31 YRS/FEMALE  | PAT                  | IENT ID                             | : 1822276  |
| COLLECTED BY       | : SURJESH  | REG                  | . NO./LAB NO.                       | : 012504080047   |
| <b>REFERRED BY</b> | :  | REG                  | ISTRATION DATE                      | : 08/Apr/2025 10:58 AM   |
| BARCODE NO.        | : 01528600   | COL                  | LECTION DATE                        | : 08/Apr/2025 11:05AM  |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB                                       | REP                  | ORTING DATE                         | : 08/Apr/2025 03:08PM  |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, A                                | MBALA CANTT          |                                     |  |
| Test Name          |  | Value                | Unit                                | <b>Biological Reference interval</b>   |
|                    |  | VITAM                | INS                                 |  |
|                    | VITAN  | MIN D/25 HYDRO       | OXY VITAMIN D                       | 03   |
|                    | (DROXY VITAMIN D3): SERUI<br>ESCENCE IMMUNOASSAY)          | M 7.238 <sup>L</sup> | ng/mL                               | DEFICIENCY: < 20.0<br>INSUFFICIENCY: 20.0 - 30.0<br>SUFFICIENCY: 30.0 - 100.0<br>TOXICITY: > 100.0 |

### INTERPRETATION:

| INTER REPAIRED.  |          |       |   |  |  |
|------------------|----------|-------|---|--|--|
| DEFICIENT:       | < 20     | ng/mL |   |  |  |
| INSUFFICIENT:    | 21 - 29  | ng/mL |   |  |  |
| PREFFERED RANGE: | 30 - 100 | ng/mL |   |  |  |
| INTOXICATION:    | > 100    | ng/mL | 1 |  |  |

(A Unit of KOS Healthcare)

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED:

1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia. CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent

hypervitaminosis D NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which

interefere with Vitamin D absorption.



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|  | <b>Dr. Vinay Cho</b><br>MD (Pathology &<br>Chairman & Cons |  | Microbiology) MD (Pathology)  |   |  |  |  |
|--|--|--|---|---|--|--|--|
| NAME   | : Mrs. SAKSHI BISHT  |  |   |   |  |  |  |
| AGE/ GENDER  | : 31 YRS/FEMALE  | PAT  | TENT ID   | : 1822276   |  |  |  |
| COLLECTED BY   | : SURJESH  | REG  | . NO./LAB NO.   | : 012504080047  |  |  |  |
| REFERRED BY  | •  |  | ISTRATION DATE  | : 08/Apr/2025 10:58 AM  |  |  |  |
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|  |  |  |   |   |  |  |  |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB                                       |  | ORTING DATE   | : 08/Apr/2025 03:08PM   |  |  |  |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD                                   | ), AMBALA CANTT                                      |   |   |  |  |  |
| Test Name  |  | Value  | Unit  | Biological Reference interval   |  |  |  |
| INTERPRETATION:-                                       | ESCENT MICROPARTICLE IMMUNO                                | 417.41<br>ASSAY)                                     | pg/mL   | 190.0 - 830   |  |  |  |
|  | ED VITAMIN B12   |  | DECREASED VITAMIN   | I B12   |  |  |  |
| 1.Ingestion of Vitam                                   |  |  | 1.Pregnancy   |   |  |  |  |
| 2.Ingestion of Estrogen<br>3.Ingestion of Vitamin A    |  |  | 2.DRUGS:Aspirin, Anti-convulsants, Colchicine<br>3.Ethanol Igestion |   |  |  |  |
| 4.Hepatocellular inj                                   |  |  | 4. Contraceptive Harmones<br>5.Haemodialysis                        |   |  |  |  |
| 5.Myeloproliferative                                   |  |  |   |   |  |  |  |
| 6.Uremia   |  | 6. Multiple N  | 6. Multiple Myeloma   |   |  |  |  |
| <ol> <li>The body uses its vi<br/>excreted.</li> </ol> | ncy may be due to lack of IF sec<br>intestinal diseases).  | ically, reabsorbing vitar<br>cretion by gastric muco | nin B12 from the ileun<br>sa (eg, gastrectomy, g                    | and returning it to the liver; very little is<br>astric atrophy) or intestinal malabsorption (e<br>weakness, hyperreflexia, ataxia, loss of |  |  |  |





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|   | NAME                                 |                          | Chopra<br>/ & Microbiology)<br>onsultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                          |
|---|--------------------------------------|--------------------------|--|-------------------------------------|--------------------------------------|
|   |                                      |                          |  |                                     | 1000070                              |
|   | AGE/ GENDER                          | : 31 YRS/FEMALE          | PATIE  |                                     | : 1822276                            |
|   | COLLECTED BY                         | : SURJESH                | REG. N   | O./LAB NO.                          | : 012504080047                       |
|   | <b>REFERRED BY</b>                   | :                        | REGIST   | FRATION DATE                        | :08/Apr/2025 10:58 AM                |
| - | BARCODE NO.                          | :01528600                | COLLE  | CTION DATE                          | : 08/Apr/2025 11:05AM                |
| 1 | CLIENT CODE.                         | : KOS DIAGNOSTIC LAB     | REPOR  | TING DATE                           | : 08/Apr/2025 12:20PM                |
|   | CLIENT ADDRESS                       | : 6349/1, NICHOLSON ROAI | D, AMBALA CANTT                                      |                                     |                                      |
|   |                                      |                          |  |                                     |                                      |
| ) | Test Name                            |                          | Value  | Unit                                | <b>Biological Reference interval</b> |
|   |                                      |                          | CLINICAL PATI  | HOLOGY                              |                                      |
| ) |                                      | URINE RO                 | OUTINE & MICROSC                                     | OPIC EXAMI                          | NATION                               |
|   | PHYSICAL EXAM                        | INATION                  |  |                                     |                                      |
|   | QUANTITY RECIEV                      |                          | 10   | ml                                  |                                      |
|   | COLOUR                               | TANCE SPECTROPHOTOMETRY  | PALE YELLOW  |                                     | PALE YELLOW                          |
|   | TRANSPARANCY<br>by DIP STICK/REFLEC  | TANCE SPECTROPHOTOMETRY  | HAZY   |                                     | CLEAR                                |
|   |                                      | TANCE SPECTROPHOTOMETRY  | >=1.030  |                                     | 1.002 - 1.030                        |
|   | CHEMICAL EXAM                        | <b>IINATION</b>          |  |                                     |                                      |
|   | REACTION<br>by DIP STICK/REFLEC      | TANCE SPECTROPHOTOMETRY  | ACIDIC   |                                     |                                      |
|   | PROTEIN<br>by DIP STICK/REFLEC       | TANCE SPECTROPHOTOMETRY  | Negative   |                                     | NEGATIVE (-ve)                       |
|   | SUGAR<br>by DIP STICK/REFLEC         | TANCE SPECTROPHOTOMETRY  | Negative   |                                     | NEGATIVE (-ve)                       |
|   | pH<br>by DIP STICK/REFLEC            | TANCE SPECTROPHOTOMETRY  | <=5.0  |                                     | 5.0 - 7.5                            |
|   | BILIRUBIN                            | TANCE SPECTROPHOTOMETRY  | Negative   |                                     | NEGATIVE (-ve)                       |
|   | NITRITE<br>by DIP STICK/REFLEC       | TANCE SPECTROPHOTOMETRY. | Negative   |                                     | NEGATIVE (-ve)                       |
|   | UROBILINOGEN<br>by DIP STICK/REFLEC  | TANCE SPECTROPHOTOMETRY  | Normal   | EU/dL                               | 0.2 - 1.0                            |
|   | KETONE BODIES<br>by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY  | Negative   |                                     | NEGATIVE (-ve)                       |
|   | BLOOD<br>by DIP STICK/REFLEC         | TANCE SPECTROPHOTOMETRY  | 1+   |                                     | NEGATIVE (-ve)                       |
|   | ASCORBIC ACID<br>by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY  | NEGATIVE (-ve)                                       |                                     | NEGATIVE (-ve)                       |

**MICROSCOPIC EXAMINATION** 



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

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









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



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

| NAME  | : Mrs. SAKSHI BISHT          |  |      |   |  |
|---|------------------------------|--|------|---|--|
| AGE/ GENDER   | : 31 YRS/FEMALE              | PATIENT  | ID   | : 1822276   |  |
| COLLECTED BY  | : SURJESH                    | REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE |      | : <b>012504080047</b><br>: 08/Apr/2025 10:58 AM<br>: 08/Apr/2025 11:05AM<br>: 08/Apr/2025 12:20PM |  |
| <b>REFERRED BY</b>  | :                            |  |      |   |  |
| BARCODE NO.   | : 01528600                   |  |      |   |  |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB         |  |      |   |  |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, AM | MBALA CANTT  |      |   |  |
| Test Name   |                              | Value  | Unit | Biological Reference interval   |  |
| RED BLOOD CELL  | S (RBCs)                     | 8-10   | /HPF | 0 - 3   |  |
|   | ENTRIFUGED URINARY SEDIMENT  | 0.10   | ,    |   |  |
| PUS CELLS   |                              | 3-4  | /HPF | 0 - 5   |  |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT<br>EPITHELIAL CELLS |                              | 15-20  | /HPF | ABSENT  |  |
| •   | ENTRIFUGED URINARY SEDIMENT  |  |      |   |  |
| CRYSTALS<br>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT         |                              | NEGATIVE (-ve)   |      | NEGATIVE (-ve)  |  |
| CASTS<br>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT            |                              | NEGATIVE (-ve)   |      | NEGATIVE (-ve)  |  |
| BACTERIA<br>by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT         |                              | NEGATIVE (-ve)   |      | NEGATIVE (-ve)  |  |
| OTHERS<br>by MICROSCOPY ON C                                      | ENTRIFUGED URINARY SEDIMENT  | NEGATIVE (-ve)   |      | NEGATIVE (-ve)  |  |
| TRICHOMONAS VAGINALIS (PROTOZOA)                                  |                              | ABSENT   |      | ABSENT  |  |

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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





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