



|                             |                          | & Microbiology)<br>onsultant Pathologist | Dr. Yugan<br>MD<br>CEO & Consultant | (Pathology)            |                 |
|-----------------------------|--------------------------|--|-------------------------------------|------------------------|-----------------|
| NAME                        | : Mrs. SUKHWINDER KAUF   | 2  |                                     |                        |                 |
| AGE/ GENDER                 | : 63 YRS/FEMALE          | PATI                                     | ENT ID                              | : 1818675              |                 |
| COLLECTED BY                | :                        | REG.                                     | NO./LAB NO.                         | : 012504050016         |                 |
| REFERRED BY                 | :                        | REGI                                     | STRATION DATE                       | : 05/Apr/2025 09:07 AM |                 |
| BARCODE NO.                 | : 01528381               | COLI                                     | ECTION DATE                         | :05/Apr/202509:11AM    |                 |
| CLIENT CODE.                | : KOS DIAGNOSTIC LAB     | REPO                                     | DRTING DATE                         | : 05/Apr/2025 09:40AM  |                 |
|                             |                          |  |                                     |                        |                 |
| CLIENT ADDRESS              | : 6349/1, NICHOLSON ROAD | ), AMBALA CANTT                          |                                     |                        |                 |
| CLIENT ADDRESS<br>Test Name | : 6349/1, NICHOLSON ROAD | ), AMBALA CANTT<br>Value                 | Unit                                | Biological Ref         | erence interval |
|                             | : 6349/1, NICHOLSON ROAD |  |                                     | Biological Refe        | erence interval |
|                             |                          | Value                                    | LOGY                                |                        | erence interval |

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such as C-reactive protein

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

# CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

1. ESR and C - reactive protein (C-RP) are both markers of inflammation.

2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

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6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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|   | MD (                                  | Vinay Chopra<br>Pathology & Micro<br>rman & Consultant |                  | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                   |
|---|---------------------------------------|--|------------------|-------------------------------------|-------------------------------|
| NAME  | : Mrs. SUKHWIND                       | DER KAUR   |                  |                                     |                               |
| AGE/ GENDER                                 | : 63 YRS/FEMALE                       |  | PATI             | ENT ID                              | : 1818675                     |
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| BARCODE NO.                                 | : 01528381                            |  | COLL             | ECTION DATE                         | : 05/Apr/2025 09:11AM         |
|   | MOG DIL GNIGGTIG                      | I A D  | DEDO             |                                     |                               |
| CLIENT CODE.                                | : KOS DIAGNOSTIC                      | LAB  | REPU             | ORTING DATE                         | : 05/Apr/2025 12:55PM         |
|   | : KOS DIAGNOSTIC<br>: 6349/1, NICHOLS |  |                  | JRTING DATE                         | : 05/Apr/2025 12:55PM         |
|   |                                       | SON ROAD, AMBAI  |                  | Unit                                | Biological Reference interval |
| CLIENT ADDRESS                              | : 6349/1, NICHOLS                     | SON ROAD, AMBAI  | A CANTT<br>7alue |                                     | Biological Reference interval |
| CLIENT CODE.<br>CLIENT ADDRESS<br>Test Name | : 6349/1, NICHOLS                     | SON ROAD, AMBAI  | A CANTT<br>7alue | Unit<br>Y/BIOCHEMIS                 | Biological Reference interval |

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A fasting plasma glucose level below 100 mg/dl is considered normal.
A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





|   |   | hopra<br>& Microbiology)<br>onsultant Pathologis |  | (Pathology)   |
|---|---|--|--|---|
| NAME<br>AGE/ GENDER<br>COLLECTED BY<br>REFERRED BY<br>BARCODE NO.<br>CLIENT CODE.<br>CLIENT ADDRESS | : Mrs. SUKHWINDER KAUF<br>: 63 YRS/FEMALE<br>:<br>:<br>: 01528381<br>: KOS DIAGNOSTIC LAB<br>: 6349/1, NICHOLSON ROAE |  | PATIENT ID<br>REG. NO./LAB NO.<br>REGISTRATION DATE<br>COLLECTION DATE<br>REPORTING DATE | : 1818675<br><b>: 012504050016</b><br>: 05/Apr/2025 09:07 AM<br>: 05/Apr/2025 09:11AM<br>: 05/Apr/2025 12:55PM                          |
| Test Name   |   | Value  | Unit   | Biological Reference interval   |
|   |   | LIPID PRO  | OFILE : BASIC  |   |
| CHOLESTEROL TO<br>by CHOLESTEROL OXI  |   | 158.35   | mg/dL  | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -<br>239.0<br>HIGH CHOLESTEROL: > OR =<br>240.0  |
| TRIGLYCERIDES: S<br>by GLYCEROL PHOSPH  | ERUM<br>HATE OXIDASE (ENZYMATIC)  | 98.33  | mg/dL  | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 -<br>199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| HDL CHOLESTERO  | L (DIRECT): SERUM<br>on   | 48.76  | mg/dL  | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0<br>60.0<br>HIGH HDL: > OR = 60.0   |
| LDL CHOLESTEROI<br>by CALCULATED, SPEC  |   | 89.92  | mg/dL  | 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>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLEST<br>by CALCULATED, SPEC  |   | 109.59   | mg/dL  | 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 |
| VLDL CHOLESTER(<br>by CALCULATED, SPEC  | CTROPHOTOMETRY  | 19.67  | mg/dL  | 0.00 - 45.00  |
| TOTAL LIPIDS: SER<br>by CALCULATED, SPEC  |   | 415.03   | mg/dL  | 350.00 - 700.00   |
| CHOLESTEROL/HD  | L RATIO: SERUM<br>CTROPHOTOMETRY  | 3.25   | RATIO  | LOW RISK: 3.30 - 4.40   |

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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|--|-------------------------|--|---|---|
| NAME                                   | : Mrs. SUKHWINDER KAU   | R  |   |   |
| AGE/ GENDER                            | : 63 YRS/FEMALE         | PATI   | ENT ID  | : 1818675   |
| COLLECTED BY                           | :                       | REG.   | NO./LAB NO.                                     | : 012504050016  |
| <b>REFERRED BY</b>                     | :                       | REGI   | STRATION DATE                                   | : 05/Apr/2025 09:07 AM  |
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| CLIENT CODE.                           | : KOS DIAGNOSTIC LAB    | REPO   | RTING DATE                                      | : 05/Apr/2025 12:55PM   |
| CLIENT ADDRESS                         | : 6349/1, NICHOLSON ROA | D, 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 |                         | 1.84   | RATIO   | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H                        | HDL RATIO: SERUM        | 2.02 <sup>L</sup>                                    | RATIO   | 3.00 - 5.00   |

### by 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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| : Mrs. SUKHWINDER KAUR<br>: 63 YRS/FEMALE<br>:<br>:<br>: 01528381<br>: KOS DIAGNOSTIC LAB<br>: 6349/1, NICHOLSON ROAD, AMBA | COLLECT   | 'LAB NO.<br>ATION DATE  | : 1818675<br><b>: 012504050016</b><br>: 05/Apr/2025 09:07 AM  |
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| :<br>:<br>: 01528381<br>: KOS DIAGNOSTIC LAB  | REG. NO./<br>REGISTR/<br>COLLECT  | 'LAB NO.<br>ATION DATE  | : 012504050016  |
| : KOS DIAGNOSTIC LAB  | REGISTR.<br>COLLECT   | ATION DATE  |   |
| : KOS DIAGNOSTIC LAB  | COLLECT   |   | : 05/Apr/2025 09:07 AM  |
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|   | DEDODTI   | ON DATE   | : 05/Apr/2025 09:11AM   |
| · 6340/1 NICHOLSON POAD AMBA  | KEPUKII   | NG DATE   | : 05/Apr/2025 11:10AM   |
| . 0349/ 1, MCHOLSON KOAD, AMDA  | LA CANTT  |   |   |
|   | Value   | Unit  | <b>Biological Reference interval</b>  |
|   | SODIUM  |   |   |
|   | 140.2   | mmol/L  | 135.0 - 150.0   |
| ELECTRODE)  |   |   |   |
|   |   |   |   |
| nerve impulse.<br>SODIUM LEVEL) CAUSES:-<br>diarrhea & vomiting with adequate wa  | -   |   | γ maintain osmotic pressure & acid base   |
|   | <i>ELECTRODE)</i><br>ation of extra-cellular fluid. Its primar<br>nerve impulse.<br><b>SODIUM LEVEL) CAUSES:-</b><br>diarrhea & vomiting with adequate wa<br>pathy. | ELECTRODE)<br>ation of extra-cellular fluid. Its primary function in the body<br>nerve impulse.<br>SODIUM LEVEL) CAUSES:-<br>diarrhea & vomiting with adequate water and iadequate salt<br>pathy. | SODIUM<br>140.2 mmol/L<br>ELECTRODE)<br>ation of extra-cellular fluid. Its primary function in the body is to chemically<br>nerve impulse.<br>SODIUM LEVEL) CAUSES:-<br>diarrhea & vomiting with adequate water and iadequate salt replacement.<br>pathy. |

- 1.Hyperapnea (Prolonged) 2.Diabetes insipidus
- 3. Diabetic acidosis
- 4. Cushings syndrome
- 5.Dehydration







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|--|--|---|--|-----------------------------|
| NAME   | : Mrs. SUKHWINDER KAUR   |   |  |                             |
| AGE/ GENDER  | : 63 YRS/FEMALE  | PATIE   | NT ID  | : 1818675                   |
| COLLECTED BY   | :  | REG. N  | O./LAB NO.   | :012504050016               |
| REFERRED BY  | :  | REGIS   | <b>FRATION DATE</b>  | : 05/Apr/2025 09:07 AM      |
| BARCODE NO.  | : 01528381   | COLLE   | CTION DATE   | :05/Apr/202509:11AM         |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB   | REPOR   | RTING DATE   | :05/Apr/2025 12:10PM        |
| Test Name  |  | Value   | Unit   | Biological Reference inter  |
|  |  | ENDOCRINO   | LOGY   |                             |
|  | TH   | ENDOCRINO<br>YROID FUNCTION   |  |                             |
|  |  | YROID FUNCTION<br>0.95  |  | 0.35 - 1.93                 |
| by CMIA (CHEMILUMII<br>THYROXINE (T4):   | IINE (T3): SERUM<br>VESCENT MICROPARTICLE IMMUNOA  | VROID FUNCTION<br>0.95<br>SSAY)<br>10.53                              | TEST: TOTAL  | 0.35 - 1.93<br>4.87 - 12.60 |
| by CMIA (CHEMILUMII<br>THYROXINE (T4):<br>by CMIA (CHEMILUMII<br>THYROID STIMUI<br>by CMIA (CHEMILUMII | IINE (T3): SERUM<br>NESCENT MICROPARTICLE IMMUNOA<br>SERUM<br>NESCENT MICROPARTICLE IMMUNOA<br>LATING HORMONE (TSH): SE<br>NESCENT MICROPARTICLE IMMUNOA | <b>YROID FUNCTION</b><br>0.95<br>SSAY)<br>10.53<br>SSAY)<br>RUM 1.368 | TEST: TOTAL<br>ng/mL   |                             |
| THYROXINE (T4):<br>by CMIA (CHEMILUMII<br>THYROID STIMUI   | IINE (T3): SERUM<br>NESCENT MICROPARTICLE IMMUNOA<br>SERUM<br>NESCENT MICROPARTICLE IMMUNOA<br>LATING HORMONE (TSH): SE<br>NESCENT MICROPARTICLE IMMUNOA | <b>YROID FUNCTION</b><br>0.95<br>SSAY)<br>10.53<br>SSAY)<br>RUM 1.368 | <b>TEST: TOTAL</b><br>ng/mL<br>μgm/dL                                | 4.87 - 12.60                |

| CLINICAL CONDITION           | Т3                    | 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)              |                   | ATING 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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NAME

**AGE/ GENDER** 

**COLLECTED BY** 

**REFERRED BY** 



**REPORTING DATE** 

| <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Patholog |
|---|-------------------------------------|-----------|
| : Mrs. SUKHWINDER KAUR  |                                     |           |
| : 63 YRS/FEMALE PA  | TIENT ID                            | : 1818    |
| : RE  | G. NO./LAB NO.                      | :012      |
| : <b>RE</b>   | GISTRATION DATE                     | :05/A     |
|   |                                     |           |

**BARCODE NO.** :01528381 CLIENT CODE. **CLIENT ADDRESS** 

: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT

8675 2504050016 **COLLECTION DATE** 

Apr/2025 09:07 AM :05/Apr/2025 09:11AM

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:05/Apr/2025 12:10PM

| Test Name           |               |                      | Value            | Unit                |             | <b>Biological Reference interval</b> |
|---------------------|---------------|----------------------|------------------|---------------------|-------------|--------------------------------------|
| 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 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

\*\*\* End Of Report \*





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