



|   |                                | Chopra<br>/ & Microbiology)<br>onsultant Pathologist | Dr. Yugam<br>MD (F<br>CEO & Consultant P | Pathology)                                    |
|---|--------------------------------|--|--|---|
| NAME  | : Mrs. SHAKTI CHOPRA           |  |  |   |
| AGE/ GENDER   | : 77 YRS/FEMALE                | PATI   | ENT ID                                   | : 1602788                                     |
| COLLECTED BY  | : SURJESH                      | REG.   | NO./LAB NO.                              | : 012409050057                                |
| REFERRED BY   | :                              | REGI   | STRATION DATE                            | : 05/Sep/2024 12:40 PM                        |
| BARCODE NO.   | : 01516360                     | COLL   | ECTION DATE                              | : 05/Sep/2024 12:42PM                         |
| CLIENT CODE.  | : KOS DIAGNOSTIC LAB           | REPO   | RTING DATE                               | : 05/Sep/2024 12:51PM                         |
| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROA        | D, AMBALA CANTT                                      |  |   |
| Test Name   |                                | Value  | Unit                                     | Biological Reference interval                 |
| by CALORIMETRIC<br>INTERPRETATION:-<br>Hemoglobin is the pro- | otein molecule in red blood co | Ils that carries ownen fro                           | m the lungs to the hor                   | lys tissues and returns carbon dioxide from t |
| tissues back to the lu  | ings.                          | low red blood count.                                 |  |   |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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



Page 1 of 10





|  |  | & Microbiology)<br>Insultant Pathologist | MD<br>CEO & Consultant | (Pathology)<br>Pathologist                             |
|--|--|--|------------------------|--|
| IAME   | : Mrs. SHAKTI CHOPRA                             |  |                        |  |
| GE/ GENDER   | : 77 YRS/FEMALE                                  | PAT                                      | IENT ID                | : 1602788  |
| COLLECTED BY   | : SURJESH  | REG                                      | . NO./LAB NO.          | : 012409050057   |
| REFERRED BY  | :  | REG                                      | ISTRATION DATE         | : 05/Sep/2024 12:40 PM                                 |
| DADCODE NO   | :01516360  | COL                                      | LECTION DATE           | : 05/Sep/2024 12:42PM                                  |
| BARCODE NO.  |  |  |                        |  |
|  | : KOS DIAGNOSTIC LAB                             | REP                                      | ORTING DATE            | : 05/Sep/2024 01:20PM                                  |
| CLIENT CODE.   | : KOS DIAGNOSTIC LAB<br>: 6349/1, NICHOLSON ROAD |  | ORTING DATE            | : 05/Sep/2024 01:20PM                                  |
| BARCODE NO.<br>CLIENT CODE.<br>CLIENT ADDRESS<br>Test Name |  |  | ORTING DATE            | : 05/Sep/2024 01:20PM<br>Biological Reference interval |
| CLIENT CODE.<br>CLIENT ADDRESS                             | : 6349/1, NICHOLSON ROAD                         | , AMBALA CANTT                           | Unit                   | Biological Reference interval                          |
| CLIENT CODE.<br>CLIENT ADDRESS                             | : 6349/1, NICHOLSON ROAD                         | o, AMBALA CANTT<br>Value                 | Unit<br>7/BIOCHEMISTR  | Biological Reference interval                          |

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A post-prandial plasma glucose level of above 200 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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MBBS, MD (PATHOLOGY)

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Dr. Yugam Chopra

|  | MD (Pathology & N<br>Chairman & Consu   | 1icrobiology) | Dr. Tugan<br>MD<br>CEO & Consultant | (Pathology)                               |
|--|---|---------------|-------------------------------------|---|
| NAME                                     | : Mrs. SHAKTI CHOPRA                    |               |                                     |   |
| AGE/ GENDER                              | : 77 YRS/FEMALE                         | P             | ATIENT ID                           | : 1602788                                 |
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| BARCODE NO.                              | : 01516360                              | C             | <b>OLLECTION DATE</b>               | : 05/Sep/2024 12:42PM                     |
| CLIENT CODE.                             | : KOS DIAGNOSTIC LAB                    | R             | EPORTING DATE                       | : 05/Sep/2024 03:01PM                     |
| CLIENT ADDRESS                           | : 6349/1, NICHOLSON ROAD, AM            | MBALA CANTT   |                                     |   |
| Test Name                                |   | Value         | Unit                                | Biological Reference interval             |
|  | LIV                                     | ER FUNCTION   | TEST (COMPLETE)                     |   |
| BILIRUBIN TOTAL: S                       | ERUM<br>PECTROPHOTOMETRY                | 0.25          | mg/dL                               | INFANT: 0.20 - 8.00<br>ADULT: 0.00 - 1.20 |
|  | CONJUGATED): SERUM                      | 0.09          | mg/dL                               | 0.00 - 0.40                               |
| •  | (UNCONJUGATED): SERUM                   | 0.16          | mg/dL                               | 0.10 - 1.00                               |
| SGOT/AST: SERUM                          | RIDOXAL PHOSPHATE                       | 10.9          | U/L                                 | 7.00 - 45.00                              |
| SGPT/ALT: SERUM                          | RIDOXAL PHOSPHATE                       | 8.9           | U/L                                 | 0.00 - 49.00                              |
| AST/ALT RATIO: SER<br>by CALCULATED, SPE | UM                                      | 1.22          | RATIO                               | 0.00 - 46.00                              |
| ALKALINE PHOSPHA                         |   | 112.8         | U/L                                 | 40.0 - 130.0                              |
| GAMMA GLUTAMYL<br>by SZASZ, SPECTROF     | . TRANSFERASE (GGT): SERUM<br>PHTOMETRY | 16.04         | U/L                                 | 0.00 - 55.0                               |
| TOTAL PROTEINS: SE                       | ERUM                                    | 6.56          | gm/dL                               | 6.20 - 8.00                               |
| ALBUMIN: SERUM<br>by BROMOCRESOL G       |   | 3.83          | gm/dL                               | 3.50 - 5.50                               |
| GLOBULIN: SERUM                          |   | 2.73          | gm/dL                               | 2.30 - 3.50                               |
| A : G RATIO: SERUM                       |   | 1.4           | RATIO                               | 1.00 - 2.00                               |

Dr. Vinay Chopra

by CALCULATED, SPECTROPHOTOMETRY

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

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

## **INCREASED:**

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





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**INTERPRETATION** 





|                  | Dr. Vinay Chop<br>MD (Pathology & M<br>Chairman & Consult | icrobiology) | Dr. Yugan<br>MD<br>CEO & Consultant | (Pathology)           |                   |
|------------------|---|--------------|-------------------------------------|-----------------------|-------------------|
| NAME             | : Mrs. SHAKTI CHOPRA                                      |              |                                     |                       |                   |
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| COLLECTED BY     | : SURJESH   | REG.         | NO./LAB NO.                         | :012409050057         |                   |
| REFERRED BY      | :   | REG          | ISTRATION DATE                      | : 05/Sep/2024 12:40 I | PM                |
| BARCODE NO.      | : 01516360  | COLL         | LECTION DATE                        | :05/Sep/2024 12:42P   | М                 |
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| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AM                              | IBALA CANTT  |                                     |                       |                   |
| Test Name        |   | Value        | Unit                                | Biological Re         | eference interval |
| HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS                              |              | > 1.3 (Slightly Inc                 | reased)               |                   |

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

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

PROGNOSTIC SIGNIFICANCE:

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

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KOS Diagnostic Lab (A Unit of KOS Healthcare)

| ISO 9001 : 2008 CERT  | IFIED LAB   | EXCELLENC                                   | E IN HEALTHCARE | & DIAGNOSTICS                                 |  |
|---|---|---|-----------------|---|--|
|   | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbio<br>Chairman & Consultant Pa | ology)                                      | MD              | n <b>Chopra</b><br>(Pathology)<br>Pathologist |  |
| NAME  | : Mrs. SHAKTI CHOPRA  |   |                 |   |  |
| AGE/ GENDER   | : 77 YRS/FEMALE   | PATIENT ID                                  |                 | : 1602788                                     |  |
| COLLECTED BY  | : SURJESH   | REG. NO./LAB                                | NO.             | : 012409050057                                |  |
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| BARCODE NO.   | :01516360   | <b>COLLECTION</b>                           | DATE            | : 05/Sep/2024 12:42PM                         |  |
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| CLIENT ADDRESS  | : 6349/1, NICHOLSON ROAD, AMBALA  | CANTT                                       |                 |   |  |
|   |   |   |                 |   |  |
| Test Name   | Va  | lue   | Unit            | Biological Reference interval                 |  |
|   |   |   |                 |   |  |
|   |   | UREA  |                 |   |  |
| UREA: SERUM<br>by UREASE - GLUTAN   | 55<br>MATE DEHYDROGENASE (GLDH)   | .19 <sup>H</sup>                            | mg/dL           | 10.00 - 50.00                                 |  |
| <i>by bit</i> ( <i>b</i> ) <i>b</i> ( <i></i> |   |   |                 |   |  |
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|   | DR.VINAY CHOPRA   | DR.YUGAM CHOPRA                             | HCT.            |   |  |
|   | CONSULTANT PATHOLOGIST<br>MBBS, MD (PATHOLOGY & MICROBIOLOGY)                   | CONSULTANT PATHOLOG<br>MBBS , MD (PATHOLOGY |                 |   |  |
| KOS Central Lab: 6349/I   | , Nicholson Road, Ambala Cantt -133 001, Hary                                   |   |                 |   |  |
|   | Floor, Parry Hotel, Staff Road, Opp. GPO, Amba                                  |   | ı               |   |  |
|   | 43898   care@koshealthcare.com   www.kc   |   |                 |   |  |
|   |   |   |                 | Page 5 of 10                                  |  |

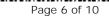


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

| ISO 9001 : 2008 CERTIFI   | ED LAB   | 1   | EXCELLENCE IN HEALTHCARE  | & DIAGNOSTICS   |   |
|---|--|---|---|---|---|
|   | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbio<br>Chairman & Consultant Pa  | ology)<br>athologist                          | Dr. Yugam<br>MD<br>CEO & Consultant                                 | (Pathology)   |   |
| AGE/ GENDER :<br>COLLECTED BY :<br>REFERRED BY :<br>BARCODE NO. :<br>CLIENT CODE. : | Mrs. SHAKTI CHOPRA<br>77 YRS/FEMALE<br>SURJESH<br>01516360<br>KOS DIAGNOSTIC LAB<br>6349/1, NICHOLSON ROAD, AMBALA                 | REG. I<br>REGIS<br>COLLI<br>REPO              | ENT ID<br>NO./LAB NO.<br>STRATION DATE<br>ECTION DATE<br>RTING DATE | : 1602788<br>: 012409050057<br>: 05/Sep/2024 12:40 PM<br>: 05/Sep/2024 12:42PM<br>: 05/Sep/2024 03:01PM |   |
| Test Name   | Va   | lue   | Unit  | Biological Reference interval   | 1 |
|   |  |   |   | <u> </u>  |   |
| CREATININE: SERUM<br>by enzymatic, spectr   | орнотометку 1.3  | CREATINI<br>34 <sup>H</sup>                   | mg/dL   | 0.40 - 1.20   |   |
|   |  |   |   |   |   |
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|   |  |   |   |   |   |
|   |  |   |   |   |   |
|   |  |   |   |   |   |
|   | DR.VINAY CHOPRA<br>CONSULTANT PATHOLOGIST<br>MBBS, MD (PATHOLOGY & MICROBIOLOGY)   | DR.YUGAM CHI<br>CONSULTANT F<br>MBBS , MD (PA | PATHOLOGIST   |   |   |
| KOS Molecular Lab: IInd Flo   | icholson Road, Ambala Cantt -133 001, Hary<br>or, Parry Hotel, Staff Road, Opp. GPO, Amba<br>898   care@koshealthcare.com   www.kc | ala Cantt -133 00                             | I, Haryana  | Page 6 of 10  |   |





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



|  |   | Chopra<br>y & Microbiology)<br>Consultant Pathologist | Dr. Yugam<br>MD<br>CEO & Consultant | (Pathology)                             |
|--|---|---|-------------------------------------|---|
| AME  | : Mrs. SHAKTI CHOPRA  |   |                                     |   |
| GE/ GENDER   | : 77 YRS/FEMALE   | PAT   | ENT ID                              | : 1602788                               |
| OLLECTED BY  | : SURJESH   | REG.  | NO./LAB NO.                         | : 012409050057                          |
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| LIENT CODE.  | : KOS DIAGNOSTIC LAB  |   | ORTING DATE                         | : 05/Sep/2024 03:15PM                   |
| LIENT ADDRESS  | : 6349/1, NICHOLSON ROA   | D, AMBALA CANTT                                       |                                     |   |
| est Name   |   | Value   | Unit                                | Biological Reference interval           |
|  |   | ELECTROLYTES COM                                      | PLETE PROFILE                       |   |
| odium: serum   |   | 141.1   | mmol/L                              | 135.0 - 150.0                           |
| by ISE (ION SELECTIVE<br>OTASSIUM: SERUM   |   | r ooH   | mmol/L                              | 3.50 - 5.00                             |
| by ISE (ION SELECTIV   |   | 5.03 <sup>H</sup>                                     |                                     |   |
| HLORIDE: SERUM   |   | 105.82  | mmol/L                              | 90.0 - 110.0                            |
| by ISE (ION SELECTIV<br>NTERPRETATION:-  | E ELECTRODE)  |   |                                     |   |
| alance & to transmi<br>IYPONATREMIA (LOV<br>. Low sodium intake<br>. Sodium loss due to<br>. Diuretics abuses.   | t nerve impulse.<br><b>V SODIUM LEVEL) CAUSES:-</b><br>diarrhea & vomiting with ade   |   | -                                   | y maintain osmotic pressure & acid base |
| alance & to transmi<br>IYPONATREMIA (LOV<br>. Low sodium intake<br>. Sodium loss due to<br>. Diuretics abuses.<br>4. Salt loosing nephr<br>. Metabolic acidosis<br>. Adrenocortical issu<br>. Hepatic failure. | t nerve impulse.<br><b>V SODIUM LEVEL) CAUSES:-</b><br>diarrhea & vomiting with ade<br>opathy.<br>S.<br>uficiency .<br><b>CREASED SODIUM LEVEL) CAUS</b><br>nged) | equate water and iadequa                              | -                                   | y maintain osmotic pressure & acid base |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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

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|                     | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiol<br>Chairman & Consultant Patl |                          | (Pathology)                   |
|---------------------|--|--------------------------|-------------------------------|
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| AGE/ GENDER         | : 77 YRS/FEMALE  | PATIENT ID               | : 1602788                     |
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| CLIENT ADDRESS      | : 6349/1, NICHOLSON ROAD, AMBALA (   | CANTT                    |                               |
|                     |  |                          |                               |
| Test Name           | Valu   | Je Unit                  | Biological Reference interval |

4. Hemolysis of blood



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|--|---|--------------------------------------|---------------------------------|---|
| NAME   | : Mrs. SHAKTI CHOPRA  |                                      |                                 |   |
| AGE/ GENDER  | : 77 YRS/FEMALE   |                                      | PATIENT ID                      | : 1602788   |
| COLLECTED BY   | : SURJESH   |                                      | REG. NO./LAB NO.                | : 012409050057  |
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| CLIENT CODE.   | : KOS DIAGNOSTIC LAB  |                                      | <b>REPORTING DATE</b>           | : 05/Sep/2024 03:01PM   |
| CLIENT ADDRESS   | : 6349/1, NICHOLSON ROAD, AM                                    | Value                                |                                 | Biological Reference interval   |
|  |   |                                      |                                 |   |
|  | TH  | YROID FUN                            | CTION TEST: TOTAL               |   |
|  | E (T3): SERUM<br>NESCENT MICROPARTICLE IMMUNOASSA               | 1.106                                | ng/mL                           | 0.35 - 1.93   |
| THYROXINE (T4): SE   |   | 8.18                                 | µgm/dL                          | 4.87 - 12.60  |
| by CMIA (CHEMILUMIN<br>3rd GENERATION, ULT<br><u>INTERPRETATION:</u><br>TSH levels are subject to<br>day has influence on the<br>trilodothyronine (T3).Fai | circadian variation, reaching peak levels be                    | tween 2-4 a.m a.<br>imulates the pro | oduction and secretion of the m | 0.35 - 5.50<br>m. The variation is of the order of 50%.Hence time of the<br>etabolically active hormones, thyroxine (T4)and<br>er underproduction (hypothyroidism) or |

| 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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

| 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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|                    | <b>Dr. Vinay Chopra</b><br>MD (Pathology & Microbiology)<br>Chairman & Consultant Patholog | MD                       | Dr. Yugam Chopra<br>MD (Pathology)<br>EO & Consultant Pathologist |  |  |
|--------------------|--|--------------------------|---|--|--|
| NAME               | : Mrs. SHAKTI CHOPRA   |                          |   |  |  |
| AGE/ GENDER        | : 77 YRS/FEMALE  | PATIENT ID               | : 1602788   |  |  |
| COLLECTED BY       | : SURJESH  | <b>REG. NO./LAB NO.</b>  | : 012409050057  |  |  |
| <b>REFERRED BY</b> | :  | <b>REGISTRATION DATE</b> | : 05/Sep/2024 12:40 PM  |  |  |
| BARCODE NO.        | : 01516360   | <b>COLLECTION DATE</b>   | : 05/Sep/2024 12:42PM   |  |  |
| CLIENT CODE.       | : KOS DIAGNOSTIC LAB   | <b>REPORTING DATE</b>    | : 05/Sep/2024 03:01PM   |  |  |
| CLIENT ADDRESS     | : 6349/1, NICHOLSON ROAD, AMBALA CANT  | Т                        |   |  |  |

| Test Name           |             |                       | Value            | Unit                | t           | Biological Reference interva |
|---------------------|-------------|-----------------------|------------------|---------------------|-------------|------------------------------|
| 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  |                              |
|                     | RECO        | OMMENDATIONS OF TSH L | 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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic 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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