



| Dr. NAAZ | | | | |
|------------------------------|---|--|---|--|
| | | | | |
| 35 YRS/Female | PAT | FIENT ID | : 1541434 | |
| | REG | G. NO./LAB NO. | : 012407070054 | |
| | REG | GISTRATION DATE | : 07/Jul/2024 06:48 PM | |
| 01512706 | COL | LECTION DATE | : 07/Jul/2024 06:49PM | |
| KOS DIAGNOSTIC LAB | RE | PORTING DATE | : 07/Jul/2024 07:43PM | |
| 349/1, NICHOLSON ROAD, AMBAL | LA CANTT | | | |
| V | /alue | Unit | Biological Reference interval | |
| | ENDOCRIN | IOLOGY | | |
| THYRO | DID FUNCTIC | N TEST: TOTAL | | |
| , | 1.203 | ng/mL | 0.35 - 1.93 | |
| 1 8 | 8.21 | µgm/dL | 4.87 - 12.60 | |
| , | 0.504 | μIU/mL | 0.35 - 5.50 | |
| | KOS DIAGNOSTIC LAB 3349/1, NICHOLSON ROAD, AMBAI THYRC 3): SERUM ENT MICROPARTICLE IMMUNOASSAY) 1 ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM ENT MICROPARTICLE IMMUNOASSAY) SINSITIVE | REC 01512706 CO COS DIAGNOSTIC LAB REI 0349/1, NICHOLSON ROAD, AMBALA CANTT Value Value ENDOCRIN ENDOCRIN CHYROID FUNCTIC 0): SERUM 1.203 ENT MICROPARTICLE IMMUNOASSAY) 1 8.21 ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM 0.504 ENT MICROPARTICLE IMMUNOASSAY) ENSITIVE | REGISTRATION DATE COLLECTION DATE COLLECTION DATE REPORTING DATE 3349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL 1.203 ng/mL ENT MICROPARTICLE IMMUNOASSAY) 1 8.21 µgm/dL ENT MICROPARTICLE IMMUNOASSAY) HORMONE (TSH): SERUM 0.504 µIU/mL | |

| CLINICAL CONDITION | T3 | T4 | TSH Increased (Significantly) | |
|------------------------------|-----------------------|-----------------------|----------------------------------|--|
| Primary Hypothyroidism: | Reduced | Reduced | | |
| 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:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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.

| TRIIODOTH | (RONINE (T3) | THYROXINE (T4) | | THYROID STIMULATING HORMONE (TS | | |
|-------------------|-----------------------------|-------------------|-----------------------------|---------------------------------|------------------------------|--|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (μg/dL) | Age | Reference Range (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. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog | | (Pathology) |
|--------------------|---|--------------------------|------------------------|
| NAME | : Dr. NAAZ | | |
| AGE/ GENDER | : 35 YRS/Female | PATIENT ID | : 1541434 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012407070054 |
| REFERRED BY | : | REGISTRATION DATE | : 07/Jul/2024 06:48 PM |
| BARCODE NO. | : 01512706 | COLLECTION DATE | :07/Jul/202406:49PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | :07/Jul/202407:43PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | Т | |

| Test Name | | Value Unit | | 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 | MMENDATIONS OF TSH LE | VELS 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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