



| | MD (Pathology | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist | | m Chopra D (Pathology) nt Pathologist |
|--|--------------------------------------|---|--------------------------------|---|
| NAME | : Mrs. NANKI DEVI | | | |
| AGE/ GENDER | : 40 YRS/FEMALE | | PATIENT ID | : 1677946 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012411210032 |
| REFERRED BY | : | | REGISTRATION DATE | : 21/Nov/2024 11:07 AM |
| BARCODE NO. | : 01521203 | | COLLECTION DATE | : 21/Nov/2024 11:09AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 21/Nov/2024 12:59PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANT | Г | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | CTION TEST: TOTAL | |
| TRIIODOTHYRONI | | 0.415 | ng/mL | 0.35 - 1.93 |
| | ESCENT MICROPARTICLE IMMUNOA | | ing/ iiiL | 0.00 - 1.00 |
| THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) | | 8.43 ASSAY) | μgm/d | L 4.87 - 12.60 |
| THYROID STIMULATING HORMONE (TSH): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) | | | µIU/m | L 0.35 - 5.50 |
| 3rd GENERATION, ULT | | 100AT) | | |
| INTERPRETATION: | | | | |
| day has influence on the triiodothyronine (T3).Fai | measured serum TSH concentrations. T | SH stimulates the p | roduction and secretion of the | pm. The variation is of the order of 50%.Hence time of the metabolically active hormones, thyroxine (T4)and her underproduction (hypothyroidism) or |
| CLINICAL CONDITION | T3 | | T4 | TSH |
| Primary Hypothyroidis | | | Reduced | Increased (Significantly) |
| Subclinical Hypothyroi | dism: Normal or Lov | v Normal | Normal or Low Normal | High |
| Primary Hyperthyroidis | sm: Increased | | Increased | Reduced (at times undetectable) |

LIMITATIONS:-

Subclinical Hyperthyroidism:

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.

Normal or High Normal

Reduced

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.

| TRIIODOTHYRONINE (T3) | | THYROXINE (T4) | | THYROID STIMULATING HORMONE (TSH) | |
|-----------------------|-----------------------------|-------------------|-----------------------------|-----------------------------------|------------------------------|
| 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 |
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6 – 12 Months | 0.70 - 7.00 |

Normal or High Normal





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







| | Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist | | | |
|--------------------|--|--------------------------|------------------------|--|
| NAME | : Mrs. NANKI DEVI | | | |
| AGE/ GENDER | : 40 YRS/FEMALE | PATIENT ID | : 1677946 | |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012411210032 | |
| REFERRED BY | : | REGISTRATION DATE | : 21/Nov/2024 11:07 AM | |
| BARCODE NO. | : 01521203 | COLLECTION DATE | : 21/Nov/2024 11:09AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 21/Nov/2024 12:59PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | TT | | |

| Test Name | | Value Unit | | Biological Reference inte | | |
|---------------------|---------------|---------------------|------------------|---------------------------|-------------|--|
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11- 19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87-13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35-5.50 | |
| | RECOM | MENDATIONS OF TSH 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, 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 ***





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

