

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | MD (Pat | n ay Chopra hology & Microbiology) n & Consultant Pathologist | | am Chopra 1D (Pathology) :ant Pathologist | |
|---|--|--|-------------------|---|--|
| NAME | : Mrs. SHIVANI | | | | |
| AGE/ GENDER | : 35 YRS/FEMALE | F | PATIENT ID | : 1792524 | |
| COLLECTED BY | : | ŀ | REG. NO./LAB NO. | : 012503150055 | |
| REFERRED BY | : | F | REGISTRATION DATE | : 15/Mar/2025 04:46 PM | |
| BARCODE NO. | :01527144 | (| COLLECTION DATE | : 15/Mar/2025 04:46PM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LA | B | REPORTING DATE | : 15/Mar/2025 07:37PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON | I ROAD, AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | | CLINICAL CHEMIST | 'RY/BIOCHEMIST | 'RY | |
| | | | CACID | | |
| URIC ACID: SERUM | | 3.23 | mg/dL | 2.50 - 6.80 | |
| 5. Psoriasis. 6. Sickle cell anaemia (B). DUE TO DECREASE 1. Alcohol ingestion. 2. Thiazide diuretics. 3. Lactic acidosis. 4. Aspirin ingestion (It 5. Diabetic ketoacido: 6. Renal failure due to DECREASED:- (A). DUE TO DIETARY L 1. Dietary deficiency of 2. Fanconi syndrome 3. Multiple sclerosis. 4. Syndrome of inappi (B). DUE TO INCREASE | D EXCREATION (BY KIDNI ess than 2 grams per day sis or starvation. any cause etc. DEFICIENCY of Zinc, Iron and molybde & Wilsons disease. Topriate antidiuretic horr DEXCREATION | y). enum. mone (SIADH) secretion & le | | ds and ACTH, anti-coagulants and estrogens et | |
| | | | | | |

KOS Diagnostic Lab (A Unit of KOS Healthcare)



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

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

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| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist | | |
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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | : 15/Mar/2025 06:35PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Refere | ence interval |
| TRIIODOTHYRONINE (T3): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASS) | | , | ng/mL | 0.35 - 1.93 | |
| THYROXINE (T4): SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOAS | | 6.22 SSAY) | µgm/dL | L 4.87 - 12.60 | |
| THYROID STIMULA | ATING HORMONE (TSH): SERU | JM 8.019^H | µIU/mL | 0.35 - 5.50 | |
| day has influence on the triiodothyronine (T3).Fai | circadian variation, reaching peak levels measured serum TSH concentrations. TS lure at any level of regulation of the h roidism) of T4 and/or T3. | SH stimulates the production | and secretion of the m | etabolically active hormones, thyro> | (ine (T4)and |
| CLINICAL CONDITION | Т3 | T4 | | TSH | |
| Primary Hypothyroidis | | | | ncreased (Significantly) | |
| Subclinical Hypothyroi | | | or Low Normal | High | |
| Primary Hyperthyroidis | | | | educed (at times undetectable) | |
| Subclinical Hyperthyro | idism: 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.

| 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 |





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| Test Name | | | Value | Unit | | Biological Reference interval |
|---------------------|---------------|----------------------|------------------|---------------------|-------------|--------------------------------------|
| 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 I | 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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