



| MD (| | y Chopra logy & Microbiology) & Consultant Pathologist | Dr. Yugam MD CEO & Consultant | (Pathology) | |
|--|---|---|-------------------------------------|--|--|
| NAME | : Mrs. KAMLESH GUPT | A | | | |
| AGE/ GENDER | : 71 YRS/FEMALE | PAT | IENT ID | : 1755304 | |
| COLLECTED BY | : SURJESH | REG. | NO./LAB NO. | : 012502130013 | |
| REFERRED BY | : CENTRAL PHOENIX CL | UB (AMBALA CANTT) REG I | ISTRATION DATE | : 13/Feb/2025 09:34 AM | |
| BARCODE NO. | :01525419 | COLI | LECTION DATE | : 13/Feb/2025 10:12AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REP | DRTING DATE | : 13/Feb/2025 10:44AM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON R | OAD, AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| tissues back to the lun A low hemoglobin leve ANEMIA (DECRESED H | gs. I is referred to as ANEMIA AEMOGLOBIN): | or low red blood count. | | odys tissues and returns carbon dioxide from t | |
| 2) Nutritional deficien 3) Bone marrow proble 4) Suppression by red 5) Kidney failure | cy (iron, vitamin B12, fola ems (replacement of bone blood cell synthesis by ch | marrow by cancer) emotherapy drugs | h ulcer) | | |
| POLYCYTHEMIA (INCRE 1) People in higher all 2) Smoking (Secondary | Polycythemia) | nemia or thalassemia). Iobin due to increased haem | oconcentration | | |
| Advanced lung disea Certain tumors | ase (for example, emphyse ne marrow known as poly | ema) | | | |

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





KOS Diagnostic Lab (A Unit of KOS Healthcare)

| | Dr. Vinay (MD (Patholog Chairman & C | Chopra gy & Microbiology) Consultant Pathologist | Dr. Yugam C MD (Pat CEO & Consultant Pat | hology) |
|---|---|--|--|--|
| NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS | : Mrs. KAMLESH GUPTA : 71 YRS/FEMALE : SURJESH : CENTRAL PHOENIX CLUB : 01525419 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA | REG. 1 8 (AMBALA CANTT) REGIS COLL REPO | NO./LAB NO. : TRATION DATE : ECTION DATE : | 1755304 012502130013 13/Feb/2025 09:34 AM 13/Feb/2025 10:12AM 13/Feb/2025 11:56AM |
| Test Name | | Value | Unit | Biological Reference interval |
| CREATININE: SERI | UM | NICAL CHEMISTRY CREATIN 1.21 ^H | | 0.40 - 1.20 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt - 133 001, Haryana

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| | Dr. Vinay Cho MD (Pathology & Chairman & Cons | Microbiology) | Dr. Yugam (MD (P EO & Consultant Pa | D (Pathology) | |
|--|--|-----------------------------|--|--|--|
| NAME | : Mrs. KAMLESH GUPTA | | | | |
| AGE/ GENDER | : 71 YRS/FEMALE | PATIENT | ID | : 1755304 | |
| COLLECTED BY | : SURJESH | REG. NO. | /LAB NO. | :012502130013 | |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AM | IBALA CANTT) REGISTR | ATION DATE | : 13/Feb/2025 09:34 AM | |
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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTI | NG DATE | : 13/Feb/2025 11:46AM | |
| LIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interv | |
| | | URIC ACID | | | |
| JRIC ACID: SERUM | | 4.66 | mg/dL | 2.50 - 6.80 | |
| by URICASE - OXIDAS | E PEROXIDASE | | Ũ | | |
| 3.Cytolytic treatmen 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia | urines (organ meats,legumes,anch t of malignancies especially leuke & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS) | mais & lymphomas. | | | |
| 3.Lactic acidosis. 4.Aspirin ingestion (1 5.Diabetic ketoacido 5.Renal failure due to DECREASED:- (A).DUE TO DIETARY 1 1.Dietary deficiency 2.Fanconi syndrome | o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease. | | | | |
| 3.Lactic acidosis. 4.Aspirin ingestion (l 5.Diabetic ketoacido 6.Renal failure due tr DECREASED:- (A).DUE TO DIETARY I 1.Dietary deficiency 2.Fanconi syndrome 3.Multiple sclerosis 4.Syndrome of inapp (B).DUE TO INCREASE | sis or starvation. Dany cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease. ropriate antidiuretic hormone (SIA D EXCREATION | | | and ACTH, anti-coagulants and estroger | |

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| Test Name | V | alue | Unit | Biological Reference interva |
| | F | ENDOCRIN | OLOGY | |
| | THYROI | D FUNCTIO | N TEST: TOTAL | |
| | NE (T3): SERUM | 0.738 | ng/mL | 0.35 - 1.93 |
| | IESCENT MICROPARTICLE IMMUNOASSAY) | | | |
| by CMIA (CHEMILUMIN THYROXINE (T4): S | IESCENT MICROPARTICLE IMMUNOASSAY) | 8.53 | µgm/dL | 4.87 - 12.60 |
| by CMIA (CHEMILUMIN THYROXINE (T4): S by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN | IESCENT MICROPARTICLE IMMUNOASSAY) SERUM SERUM | 8.53 5.143 | μgm/dL μIU/mL | 4.87 - 12.60 0.35 - 5.50 |
| THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA | IESCENT MICROPARTICLE IMMUNOASSAY) SERUM SERUM | | | |

| 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.

| TRIIODOTHYRONINE (T3) | | THYROX | DXINE (T4) THYROID STIMU | | LATING 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 | TI | Biological Defenses interval |

| Test Name | | | Value | Uni | t | 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 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





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| Test Name | | Value | Unit | Biological Reference inter | val | |
| INTERPRETATION: 1. Carcinoembryonic 2. Increased levels m breast, gastrointestii 3. Serial monitoring (| nal tract, liver, lung, ovarian, pa of CFA should begin prior to init | imary colorectal c ncreatic, and pro- iation of cancer th | cancer or other malignancie static cancers. Derapy to verify post therap | thelium. es including medullary thyroid carcinoma by decrease in concentration and to establ ns after removal of cancerous tissue. | | |
| 2. May be usĕful in a NOTE: | ctal cancer and selected other of seessing the effectiveness of che | emotherapy or rad | liation treatment. | | | |
| Carcinoembryonic Grossly elevated c of the presence of ca Most healthy subje After removal of a | ncer and also suggest metastasi acts (97%) have values < or =3.0 | concentrations (> is. ng/mL. A concentration sh | 20 ng/mL) in a patient with nould return to normal by 6 | compatible symptoms are strongly sugger weeks, unless there is residual tumor. | stive | |
| | | | | | | |
| | | *** End Of R | eport *** | | | |

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