

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | | Chopra y & Microbiology) Consultant Pathologis | | (Pathology) |
|---|---|--|---|-------------------------------|
| NAME | : Mrs. BALJEET KAUR | | | |
| AGE/ GENDER | : 46 YRS/FEMALE | | PATIENT ID | : 1602585 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012409050011 |
| REFERRED BY | : | | REGISTRATION DATE | : 05/Sep/2024 08:51 AM |
| BARCODE NO. | :01516314 | | COLLECTION DATE | : 05/Sep/2024 08:55AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 05/Sep/2024 09:17AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROA | AD, AMBALA CANTI | ſ | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | | |
| | | | IATOLOGY | |
| | ERY | THROCYTE SEDI | IMENTATION RATE (ES | R) |
| | MENTATION RATE (ESR) | 43 ^H | mm/1st l | hr 0 - 20 |
| as C-reactive protein 3. This test may also I systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickli- NOTE: 1. ESR and C - reactive 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to har 6. Drugs such as dext | be used to monitor disease a matosus V ESR if with conditions that inhibit if cantly high white blood ce e cell anaemia) also lower th e protein (C-RP) are both mar s not change as rapidly as do by as many other factors as is ed, it is typically a result of tw ye a higher ESR, and menstru | the normal sedime ll count (leucocytos e ESR. kers of inflammatio es CRP, either at the s ESR, making it a be vo types of proteins ation and pregnancy | e to therapy in both of the a ntation of red blood cells, s is) , and some protein abno n. e start of inflammation or a: etter marker of inflammatior , globulins or fibrinogen. y can cause temporary eleva | n. |
| | | | | |

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)







| | Dr. Vinay Cho MD (Pathology & M Chairman & Consu | & Microbiology) MD (Pathology) | | | |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AN | | | . 03/ 3ep/ 2024 10.20AW | |
| Test Name | | Value | Unit | Biological Reference interv | |
| | | | ISTRY/BIOCHEMISTR ON TEST (COMPLETE) | Y | |
| | | 0.45 | | | |
| BILIRUBIN TOTAL: S | EKUIVI PECTROPHOTOMETRY | 0.45 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 | |
| | CONJUGATED): SERUM | 0.11 | mg/dL | 0.00 - 0.40 | |
| by DIAZO MODIFIED, S | SPECTROPHOTOMETRY | | | | |
| | (UNCONJUGATED): SERUM | 0.34 | mg/dL | 0.10 - 1.00 | |
| by CALCULATED, SPE SGOT/AST: SERUM | ECTROPHOTOMETRY | 41.8 | U/L | 7.00 - 45.00 | |
| | RIDOXAL PHOSPHATE | 1.0 | 0/1 | 7.00 43.00 | |
| SGPT/ALT: SERUM | | 23.4 | U/L | 0.00 - 49.00 | |
| | RIDOXAL PHOSPHATE | 1 70 | | 0.00 4/ 00 | |
| AST/ALT RATIO: SER by CALCULATED, SPE | | 1.79 | RATIO | 0.00 - 46.00 | |
| ALKALINE PHOSPHA | | 87.16 | U/L | 40.0 - 130.0 | |
| | YL PHOSPHATASE BY AMINO METHYL | | | | |
| PROPANOL GAMMA GUUTAMYU | TRANSFERASE (GGT): SERUM | 29.45 | U/L | 0.00 - 55.0 | |
| by SZASZ, SPECTROF | | 27.45 | 0/1 | 0.00 00.0 | |
| TOTAL PROTEINS: SE | | 7.17 | gm/dL | 6.20 - 8.00 | |
| by BIURET, SPECTRO | PHOTOMETRY | 4.05 | | | |
| ALBUMIN: SERUM by bromocresol g | REEN | 4.05 | gm/dL | 3.50 - 5.50 | |
| GLOBULIN: SERUM | | 3.12 | gm/dL | 2.30 - 3.50 | |
| by CALCULATED, SPE | ECTROPHOTOMETRY | 0.12 | gin de | 2.00 0.00 | |
| A : G RATIO: SERUM | I | 1.3 | RATIO | 1.00 - 2.00 | |
| by CALCULATED, SPE | ECTROPHOTOMETRY | | | | |

INTERPRETATION

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 |





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Page 2 of 8

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| Test Name | | Value | Unit | Biological Reference interval |
| INTRAHEPATIC CHOI | | | > 1.5 | |
| HEPATOCELLULAR C. | ARCINOMA & CHRONIC HEPATITIS | | > 1.3 (Slightly Inc | creased) |

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 SIGNIF |
|-------------------|
|-------------------|

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



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| Test Name | | Value | Unit | Biological Reference interval |
| | | URIC | ACID | |
| URIC ACID: SERUM | | 5.71 | mg/dL | 2.50 - 6.80 |
| by URICASE - OXIDAS | E PEROXIDASE | 0.71 | ing, at | 2.00 0.00 |
| 4.Polycythemai vera 5.Psoriasis. 6.Sickle cell anaemia (B).DUE TO DECREASE 1.Alcohol ingestion. | t of malignancies especially leuk & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS) | | | |
| 3.Lactic acidosis. 4.Aspirin ingestion (I 5.Diabetic ketoacido 6.Renal failure due to DECREASED:- (A).DUE TO DIETARY I 1.Dietary deficiency of 2.Fanconi syndrome 3.Multiple sclerosis 4.Syndrome of inapp | o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease. ropriate antidiuretic hormone (Si | ADH) secretion & lov | v purine diet etc. | |
| 5. Diabetic ketoacido 6. Renal failure due to DECREASED:- (A). DUE TO DIETARY I 1. Dietary deficiency of 2. Fanconi syndrome 3. Multiple sclerosis 4. Syndrome of inapp (B). DUE TO INCREASE | sis or starvation. o any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease. ropriate antidiuretic hormone (Si D EXCREATION | | | ds and ACTH, anti-coagulants and estrogens e |





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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| Test Name | | Value ENDOCRINOL | | Biological Reference interval |
| Test Name | ТНУ | | OGY | Biological Reference interval |
| TRIIODOTHYRONIN | | ENDOCRINOL ROID FUNCTION 1 0.781 | OGY | Biological Reference interval 0.35 - 1.93 |
| TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE | E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSAY, | ENDOCRINOL ROID FUNCTION 1 0.781 9.6 | OGY TEST: TOTAL | |
| TRIIODOTHYRONIN by cmia (chemilumii THYROXINE (T4): SE by cmia (chemilumii THYROID STIMULAT | E (T3): SERUM <i>NESCENT MICROPARTICLE IMMUNOASSAY,</i> RUM | ENDOCRINOL ROID FUNCTION 1 0.781 9.6 5.111 | OGY EST: TOTAL ng/mL | 0.35 - 1.93 |

overproduction(hyperthyroidism) of T4 and/or T3.

| 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 (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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|---------------------|---------------|-----------------------|-------------------|---------------------|-------------|------------------------------|
| 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 | |
| | RECON | IMENDATIONS OF TSH LE | EVELS DURING PREC | 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





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| Test Name | | Value | Unit | Biological Reference interval | |
| | IN | IMUNOPATHOL | OGY/SEROLOGY | | |
| | | C-REACTIVE PR | ROTEIN (CRP) | | |
| | | 2.55 | mg/L | 0.0 - 6.0 | |
| C-REACTIVE PROTEI | N (CRP) QUANTITATIVE: | 3.55 | ing/ L | | |
| C-REACTIVE PROTEI SERUM | N (CRP) QUANTITATIVE: | 3.55 | riig, E | | |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:**

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.





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| RHEUMATOID (RA) I SERUM by NEPHLOMETRY INTERPRETATION:- | RHEUIVIA FACTOR QUANTITATIVE: | TOID FACTOR (RA): QU >400.0 ^H | IU/mL | LKUIVI | NEGATIVE: < 18.0 BORDERLINE: 18.0 - 25.0 POSITIVE: > 25.0 |
| useful although it ma 3. Inflammatory Marl 4. The titer of RF corr 5. The test is useful f RHEUMATOID ARTHIR 1. Rheumatoid Arthir membrane lining (syr 2. The disease spreda 3. The diagnosis of R measurement of RA fa CAUTION (FALSE POS 1. RA factor is not spe 2. Non rheumatoid an RA patients have a no 3. Patients with variou lupus erythematosus, 4. Anti-CCP have besr, 5. Upto 30 % of patier | y not be etiologically related to kers such as ESR & C-Reactive p elates poorly with disease activ or diagnosis and prognosis of rl ITIS: "itis is a systemic autoimmune of novium) joints which ledas to p as from small to large joints, with A is primarily based on clinical, actor. TIVE: - cific for Rheumatoid arthiritis, as no rheumatoid arthiritis (RA) popu- nreactive titer and 8% of norrhe us nonrheumatoid diseases, chara polymyositis, tuberculosis, syphi discovered in joints of patients w A factor. the with Seronegative Rheumatoo tive value of Anti-CCP antibodies | a RA. rotein (CRP) are normal in rity, but those patients with heumatoid arthritis. disease that is multi-function orgressive joint destruction th greatest damage in early radiological & immunological s it is often present in health ulations are not clearly sepa teumatoid patients have a pot acterized by chronic inflamm filis, viral hepatitis, infectious with RA, but not in other for id arthiritis also show Anti-functional second rest of the second second second second second second second second second rest of the second second rest of the second s | about 60 % of patier high titers tend to h onal in origin and is n and in most cases y phase. ical features. The me y individuals with oth rate with regard to th sitive titer). ation may have posi mononucleosis, and m of joint disease. Ar CCP antibodies. far greater than Rhe | nts with p have more character to disabil ost freque her autoim the presence itive tests f dinfluenza hti-CCP2 is | e severe disease course. rized by chronic inflammation of the lity and reduction of quality life. ent serological test is the nmune diseases and chronic infections. ce of rheumatoid factor (RF) (15% of for RF. These diseases include systemic HIGHLY SENSITIVE (71%) & more |





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