

(A Unit of KOS Healthcare)



Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

mm/1st hr

: 31/Aug/2024 12:00PM

0 - 20

NAME : Mr. BHEEM

AGE/ GENDER : 29 YRS/MALE **PATIENT ID** : 1040980

COLLECTED BY REG. NO./LAB NO. :012408310046

REFERRED BY **REGISTRATION DATE** : 31/Aug/2024 11:14 AM : 31/Aug/2024 11:15AM BARCODE NO. **COLLECTION DATE** :01516042 CLIENT CODE. REPORTING DATE

: KOS DIAGNOSTIC LAB **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Value Unit **Biological Reference interval** Test Name

HAEMATOLOGY

ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR)

by MODIFIED WESTERGREN AUTOMATED METHOD

INTERPRETATION: 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and auto-immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.

2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test such

3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such as systemic lupus erythematosus

CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR. NOTE:

- 1. ESR and C reactive protein (C-RP) are both markers of inflammation.

- ESR and C reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.
 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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Test Name Value Unit Biological Reference interval

CLINICAL CHEMISTRY/BIOCHEMISTRY

LIPID PROFILE: BASIC

CHOLESTEROL TOTAL: SERUM 194.92 mg/dL OPTIMAL: < 200.0

by CHOLESTEROL OXIDASE PAP

BORDERLINE HIGH: 200.0 - 239.0

HIGH CHOLESTEROL: > OR = 240.0

TRIGLYCERIDES: SERUM 481.64^H mg/dL OPTIMAL: < 150.0

by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)

BORDERLINE HIGH: 150.0 - 199.0

HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0

HDL CHOLESTEROL (DIRECT): SERUM 39.93 mg/dL LOW HDL: < 30.0

by SELECTIVE INHIBITION

BORDERI INF HIG

BORDERLINE HIGH HDL: 30.0 -

60.0

HIGH HDL: > OR = 60.0 LDL CHOLESTEROL: SERUM NOT CALCULATED mg/dL OPTIMAL: < 100.0

by CALCULATED, SPECTROPHOTOMETRY

ABOVE OPTIMAL: 100.0 - 129.0

BORDERLINE HIGH: 130.0 - 159.0

HIGH: 160.0 - 189.0

VERY HIGH: > OR = 190.0

NON HDL CHOLESTEROL: SERUM 154,99^H mg/dL OPTIMAL: < 130.0

by CALCULATED, SPECTROPHOTOMETRY

ABOVE OPTIMAL: 130.0 - 159.0

BORDERLINE HIGH: 160.0 - 189.0

HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0

VLDL CHOLESTEROL: SERUM NOT CALCULATED mg/dL 0.00 - 45.00

by CALCULATED, SPECTROPHOTOMETRY

TOTAL LIPIDS: SERUM

NOT CALCULATED mg/dL 350.00 - 700

OTAL LIPIDS: SERUM NOT CALCULATED mg/dL 350.00 - 700.00 by CALCULATED, SPECTROPHOTOMETRY

CHOLESTEROL/HDL RATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

4.88^H

RATIO

LOW RISK: 3.30 - 4.40

AVERAGE RISK: 4.50 - 7

AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0

HIGH RISK: > 11.0

LDL/HDL RATIO: SERUM NOT CALCULATED RATIO LOW RISK: 0.50 - 3.0



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Test Name Value Unit **Biological Reference interval**

by CALCULATED, SPECTROPHOTOMETRY MODERATE RISK: 3.10 - 6.0

HIGH RISK: > 6.0

RATIO 3.00 - 5.00TRIGLYCERIDES/HDL RATIO: SERUM 12.06^H by CALCULATED, SPECTROPHOTOMETRY

NOTE 2 WHEN TRIGLYCERIDES VALUE >400 mg/dL THE CALCULATED VALUES OF LDL AND

VLDL ARE NOT RELIABLE

ADVICE KINDLY CORRELATE CLINICALLY

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the

age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.

4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL &Non LDL.

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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SGOT/SGPT PROFILE

SGOT/AST: SERUM
57.00 - 45.00
by IFCC, WITHOUT PYRIDOXAL PHOSPHATE

SGPT/ALT: SERUM 80.3^H U/L 0.00 - 49.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE

SGOT/SGPT RATIO 0.46

by CALCULATED, SPECTROPHOTOMETRY

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
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)

DECREASED:-

- 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 SIGNIFICANCE:

PROGNOSTIC SIGNIFICANCE:-	
NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	12-16



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URIC ACID

URIC ACID: SERUM 9.1^H mg/dL 3.60 - 7.70

by URICASE - OXIDASE PEROXIDASE

NTERPRETATION:-

1.GOUT occurs when high levels of Uric Acid in the blood cause crystals to form & accumulate around a joint.

2.Uric Acid is the end product of purine metabolism. Uric acid is excreted to a large degree by the kidneys and to a smaller degree in the intestinal tract by microbial degradation.

INCREASED:-

(A).DUE TO INCREASED PRODUCTION:-

1.Idiopathic primary gout.

2. Excessive dietary purines (organ meats, legumes, anchovies, etc).

3. Cytolytic treatment of malignancies especially leukemais & lymphomas.

4. Polycythemai vera & myeloid metaplasia.

5. Psoriasis.

6. Sickle cell anaemia etc.

(B).DUE TO DECREASED EXCREATION (BY KIDNEYS)

- 1. Alcohol ingestion.
- 2. Thiazide diuretics.
- 3. Lactic acidosis.
- 4. Aspirin ingestion (less than 2 grams per day).
- 5. Diabetic ketoacidosis or starvation.
- 6.Renal failure due to any cause etc.

DECREASED:-

(A). DUE TO DIETARY DEFICIENCY

- 1. Dietary deficiency of Zinc, Iron and molybdenum.
- 2. Fanconi syndrome & Wilsons disease.
- 3. Multiple sclerosis
- 4. Syndrome of inappropriate antidiuretic hormone (SIADH) secretion & low purine diet etc.

(B).DUE TO INCREASED EXCREATION

1.Drugs:-Probenecid, sulphinpyrazone, aspirin doses (more than 4 grams per day), corticosterroids and ACTH, anti-coagulants and estrogens etc.

*** End Of Report ***



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KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana