

KOS Diagnostic Lab

(A Unit of KOS Healthcare)



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

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

NAME : Mr. PAWAN

AGE/ GENDER : 30 YRS/MALE PATIENT ID : 1620167

COLLECTED BY : REG. NO./LAB NO. : 012412140001

 REFERRED BY
 : 14/Dec/2024 08:42 AM

 BARCODE NO.
 : 01522417
 COLLECTION DATE
 : 14/Dec/2024 08:43 AM

 CLIENT CODE.
 : KOS DIAGNOSTIC LAB
 REPORTING DATE
 : 14/Dec/2024 09:44 AM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit Biological Reference interval

HAEMATOLOGY HAEMOGLOBIN (HB)

HAEMOGLOBIN (HB) 15.8 gm/dL 12.0 - 17.0

by CALORIMETRIC

INTERPRETATION:-

Hemoglobin is the protein molecule in red blood cells that carries oxygen from the lungs to the bodys tissues and returns carbon dioxide from the tissues back to the lungs.

A low hemoglobin level is referred to as ANEMIA or low red blood count.

ANEMIA (DECRESED HAEMOGLOBIN):

- 1) Loss of blood (traumatic injury, surgery, bleeding, colon cancer or stomach ulcer)
- 2) Nutritional deficiency (iron, vitamin B12, folate)
- 3) Bone marrow problems (replacement of bone marrow by cancer)
- 4) Suppression by red blood cell synthesis by chemotherapy drugs
- 5) Kidney failure
- 6) Abnormal hemoglobin structure (sickle cell anemia or thalassemia).

POLYCYTHEMIA (INCREASED HAEMOGLOBIN):

- 1) People in higher altitudes (Physiological)
- 2) Smoking (Secondary Polycythemia)
- 3) Dehydration produces a falsely rise in hemoglobin due to increased haemoconcentration
- 4) Advanced lung disease (for example, emphysema)
- 5) Certain tumors
- 6) A disorder of the bone marrow known as polycythemia rubra vera,
- 7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available to the body by chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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

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



KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana



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COLLECTED BY REG. NO./LAB NO. :012412140001

REFERRED BY **REGISTRATION DATE** : 14/Dec/2024 08:42 AM BARCODE NO. :01522417 **COLLECTION DATE** : 14/Dec/2024 08:43AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 14/Dec/2024 10:29AM

CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Value Unit **Biological Reference interval Test Name**

CLINICAL CHEMISTRY/BIOCHEMISTRY

LIPID PROFILE: BASIC

CHOLESTEROL TOTAL: SERUM 188.58 OPTIMAL: < 200.0 mg/dL

by CHOLESTEROL OXIDASE PAP BORDERLINE HIGH: 200.0 -

239.0

HIGH CHOLESTEROL: > OR =

240.0

OPTIMAL: < 150.0 TRIGLYCERIDES: SERUM 222.28^H mg/dL 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 LOW HDL: < 30.0 31.65 mg/dL

by SELECTIVE INHIBITION BORDERLINE HIGH HDL: 30.0 -

> 60.0 $HIGH\ HDL: > OR = 60.0$

LDL CHOLESTEROL: SERUM 112.47 OPTIMAL: < 100.0

mg/dL by CALCULATED, SPECTROPHOTOMETRY

ABOVE OPTIMAL: 100.0 - 129.0

BORDERLINE HIGH: 130.0 -

HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0

NON HDL CHOLESTEROL: SERUM 156.93^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 44.46 mg/dL 0.00 - 45.00by CALCULATED, SPECTROPHOTOMETRY

599.44

TOTAL LIPIDS: SERUM mg/dL 350.00 - 700.00 by CALCULATED, SPECTROPHOTOMETRY

CHOLESTEROL/HDL RATIO: SERUM 5.96^H RATIO LOW RISK: 3.30 - 4.40 by CALCULATED, SPECTROPHOTOMETRY

AVERAGE RISK: 4.50 - 7.0



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| Test Name | Value | Unit | Biological Reference interval |
|-----------------------------------------------------------------|-------------------|-------|--------------------------------------------------------------------------------------------------------------------------|
| LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 3.55 ^H | RATIO | MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 7.02 ^H | RATIO | 3.00 - 5.00 |

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 recommended.

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

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

End Of Report *



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