

(A Unit of KOS Healthcare)



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

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

NAME : Mr. SUCHA SINGH

AGE/ GENDER : 75 YRS/MALE **PATIENT ID** : 1767299

COLLECTED BY REG. NO./LAB NO. :012502230006

REFERRED BY **REGISTRATION DATE** : 23/Feb/2025 07:57 AM BARCODE NO. :01525998 **COLLECTION DATE** : 23/Feb/2025 07:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 23/Feb/2025 09:43AM

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

Value Unit **Biological Reference interval Test Name**

HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB)	16.8	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	5.9 ^H	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	51.2	%	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	86.8	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	28.5	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	17.3 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	56.7 ^H	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	14.71	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	25.47	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			

TOTAL LEUCOCYTE COUNT (TLC) 19320^{H} /cmm 4000 - 11000 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY NUCLEATED RED BLOOD CELLS (nRBCS) NIL 0.00 - 20.00 by AUTOMATED 6 PART HEMATOLOGY ANALYZER NIL < 10 % NUCLEATED RED BLOOD CELLS (nRBCS) % % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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Chairman & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval		
DIFFERENTIAL LEUCOCYTE COUNT (DLC)					
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	86 ^H	%	50 - 70		
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	9^{L}	%	20 - 40		
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	$\mathbf{0_{\Gamma}}$	%	1 - 6		
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12		
BASOPHILS by flow cytometry by sf cube & microscopy	0	%	0 - 1		
ABSOLUTE LEUKOCYTES (WBC) COUNT					
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy	16615 ^H	/cmm	2000 - 7500		
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	1739	/cmm	800 - 4900		
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy	$\mathbf{0_{\Gamma}}$	/cmm	40 - 440		
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	966 ^H	/cmm	80 - 880		
ABSOLUTE BASOPHIL COUNT by flow cytometry by sf cube & microscopy	0	/cmm	0 - 110		
PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.					
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	131000 ^L	/cmm	150000 - 450000		
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.19	%	0.10 - 0.36		
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	15 ^H	fL	6.50 - 12.0		
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	84000	/cmm	30000 - 90000		
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	64.3 ^H	%	11.0 - 45.0		
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD	15.9	%	15.0 - 17.0		



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KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Test Name Value Unit **Biological Reference interval**

RECHECKED

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Test Name Value Unit Biological Reference interval

CLINICAL CHEMISTRY/BIOCHEMISTRY

LIPID PROFILE: BASIC

CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	144.59	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC)	108.03	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION	77.23	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY	45.75	mg/dL	OPTIMAL: < 100.0 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 by CALCULATED, SPECTROPHOTOMETRY	67.36	mg/dL	OPTIMAL: < 130.0 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 by CALCULATED, SPECTROPHOTOMETRY	21.61	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY	397.21	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.87	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0



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Test Name	Value	Unit	Biological Reference interval	
LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.59	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	1.4 ^L	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



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Value Unit **Biological Reference interval Test Name**

IMMUNOPATHOLOGY/SEROLOGY **C-REACTIVE PROTEIN (CRP)**

C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 0.53 0.0 - 6.0mg/L

by NEPHLOMETRY

INTERPRETATION:

C-reactive protein (CRP) is one of the most sensitive acute-phase reactants for inflammation.

2. CRP levels can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery, or neoplastic

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant rejection, and to monitor these inflammatory processes.

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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Value Unit **Biological Reference interval Test Name**

IMMUNOGLOBIN IgE

IMMUNOGLOBIN-E (IgE): SERUM 316.17^H IU/mL 0.00 - 100.00by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

INTERPRETATION:

COMMENTS:

1.IgE antibodies mediate allergic diseases by sensitizing mast cells and basophils to release histamine and other inflammatory mediators on exposure to allergens

2. Total IgE is represents the sum of all the specific IgE, which inturn includes many groups of specific IgE & allergen specific IgE is just one such

group amongst them.
3. Total IgE determination constitutes a screening method of atopic diseases, although within range values of total IgE do not exclude the

existence of atopy and high values of total IgE are not pathognomonic of atopy by themselves.

4. Antigen-specific IgE is the next step in the in vitro identification of the responsible allergen. There are more than 400 characterized known allergens available for in vitro diagnostic tests and testing to be selected based on symptoms, clinical & environmental details.

5. In adults, Total IgE values between 100 to 1000 UI/ml may not correlate with allergen specific IgE, where the patients may be just sensitized to

different allergen or often the cause for high IgE could be non-atopic. 6. Specific IgE results obtained with the different methods vary significantly, hence followup testing to be performed using one laboratory only.

7. The probability of finding an increased level of IgE in serum in a patient with allergic disease varies directly with the number of different

allergens to which the patient is sensitized.
8.A normal level of IgE in serum does not eliminate the possibility of allergic disease; this occurs if there is sensitivity to a limited number of

allergens and limited end organ involvement.

INCREASED:

- 1. Atopic/Non Atopic Allergy
- 2. Parasitic Infection.
- 3.lgE Myeloma

- 4.Ăllergic bronchopulmonary aspergillosis.5.The rare hyper IgE syndrome.6.Immunodeficiency States and Autoimmune states

1.Evaluation of children with strong family history of allergies and early clinical signs of disease ·

- 2.Evaluation of children and adults suspected of having allergic respiratory disease to establish the diagnosis and define the allergens 3.To confirm clinical expression of sensitivity to foods in patients with Anaphylactic sensitivity or with Asthma, Angioedema or Cutaneous disease
- 4.To evaluate sensitivity to insect venom allergens particularly as an aid in defining venom specificity in those cases in which skin tests are

5. To confirm the presence of IgE antibodies to certain occupational allergens

*** End Of Report ***



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