

(A Unit of KOS Healthcare)



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

NAME : Mrs. USHA GARG

AGE/ GENDER : 74 YRS/FEMALE PATIENT ID : 1658431

COLLECTED BY: SURJESH REG. NO./LAB NO. : 012411020035

 REFERRED BY
 : 02/Nov/2024 11:22 AM

 BARCODE NO.
 : 01519921
 COLLECTION DATE
 : 02/Nov/2024 11:34AM

 CLIENT CODE.
 : KOS DIAGNOSTIC LAB
 REPORTING DATE
 : 02/Nov/2024 12:11PM

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

Test Name Value Unit Biological Reference interval

HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB) by CALORIMETRIC	11.4 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.64	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	36.8 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	79.4 ^L	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	24.5 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER) 30.9 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	14.8	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	43.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	17.11	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	25.25	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by flow cytometry by sf cube & microscopy	5680	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by automated 6 part hematology analyzer	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %



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by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER



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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 & A	MICROSCOPY	54	%	50 - 70		
LYMPHOCYTES by flow cytometry by sf cube & a	MICROSCOPY	32	%	20 - 40		
EOSINOPHILS by flow cytometry by sf cube & a	MICROSCOPY	7 ^H	%	1 - 6		
MONOCYTES by flow cytometry by sf cube & a	MICROSCOPY	7	%	2 - 12		
BASOPHILS by flow cytometry by sf cube & a ABSOLUTE LEUKOCYTES (WBC)		0	%	0 - 1		
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE &		3067	/cmm	2000 - 7500		
ABSOLUTE LYMPHOCYTE COUN' by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY	1818	/cmm	800 - 4900		
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE &		398	/cmm	40 - 440		
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY	398	/cmm	80 - 880		
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE &		0	/cmm	0 - 110		
ABSOLUTE IMMATURE GRANUL by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY	0	/cmm	0.0 - 999.0		
PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.						
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE	261000	/cmm	150000 - 450000		
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELEC		0.33	%	0.10 - 0.36		
MEAN PLATELET VOLUME (MPV by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE	13 ^H	fL	6.50 - 12.0		
PLATELET LARGE CELL COUNT by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE	121000 ^H	/cmm	30000 - 90000		
PLATELET LARGE CELL RATIO (by HYDRO DYNAMIC FOCUSING, ELEC	TRICAL IMPEDENCE	46.3 ^H	%	11.0 - 45.0		
PLATELET DISTRIBUTION WIDT by HYDRO DYNAMIC FOCUSING, ELEC		15.8	%	15.0 - 17.0		



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CLIENT CODE.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)



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Test Name Value Unit **Biological Reference interval**

REPORTING DATE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Value Unit **Biological Reference interval Test Name**

ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR)

mm/1st hr 30^H

by RED CELL AGGREGATION BY CAPILLARY PHOTOMETRY

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
- as C-reactive protein
- 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:
- 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.
 Progs such as doubtern mathyldona, oral contracentives, popicillamino procesingmide, the only viling, and vitality in the orange of the contracentives.

- 6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it



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Test Name Value Unit Biological Reference interval

CLINICAL CHEMISTRY/BIOCHEMISTRY POTASSIUM

POTASSIUM: SERUM 4.44 mmol/L 3.50 - 5.00

by ISE (ION SELECTIVE ELECTRODE)

INTERPRETATION:-

POTASSIUM:

Potassium is the major cation in the intracellular fluid. 90% of potassium is concentrated within the cells. When cells are damaged, potassium is released in the blood.

HYPOKALEMIA (LOW POTASSIUM LEVELS):-

- 1. Diarrhoea, vomiting & malabsorption.
- 2. Severe Burns.
- 3.Increased Secretions of Aldosterone

HYPERKALEMIA (INCREASED POTASSIUM LEVELS):-

- 1.Oliguria
- 2.Renal failure or Shock
- 3. Respiratory acidosis
- 4.Hemolysis of blood



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Value Unit **Biological Reference interval Test Name**

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

C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 0.84 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.

End Of Report ***



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