CLIENT CODE.





PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana)

A PIONEER DIAGNOSTIC CENTRE

■ 0171-2532620, 8222896961 ■ pkrjainhealthcare@gmail.com

: 25/Mar/2025 01:08PM

NAME : Mrs. NEERU

AGE/ GENDER : 48 YRS/FEMALE **PATIENT ID** : 1656222

COLLECTED BY REG. NO./LAB NO. : 122503250022

REFERRED BY **REGISTRATION DATE** : 25/Mar/2025 11:55 AM BARCODE NO. : 12507700 **COLLECTION DATE** : 25/Mar/2025 12:12PM

CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA

: P.K.R JAIN HEALTHCARE INSTITUTE

Value Unit **Biological Reference interval** Test Name

HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)

REPORTING DATE

RED BLOOD CELLS (RBCS) COUNT AND INDICES

HAEMOGLOBIN (HB) by CALORIMETRIC	10.4 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	3.3 ^L	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by Calculated by automated hematology analyzer	29.4 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUME (MCV) by Calculated by automated hematology analyzer	89.2	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by Calculated by automated hematology analyzer	31.5	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHO by Calculated by automated hematology analyzer	2) 35.3	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by Calculated by automated hematology analyzer	13.4	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	44.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	27.03	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	36.2	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	5350	/cmm	4000 - 11000
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS	54	%	50 - 70



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Test Name	Value	Unit	Biological Reference interval	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
LYMPHOCYTES	38	%	20 - 40	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6	
MONOCYTES	6	%	2 - 12	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
BASOPHILS	0	%	0 - 1	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
ABSOLUTE LEUKOCYTES (WBC) COUNT				
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2889	/cmm	2000 - 7500	
ABSOLUTE LYMPHOCYTE COUNT		/cmm	800 - 4900	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2033^{L}	/CIIIII	800 - 4900	
ABSOLUTE EOSINOPHIL COUNT	107	/cmm	40 - 440	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	107	/CIIIII	40 - 440	
ABSOLUTE MONOCYTE COUNT	321	/cmm	80 - 880	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	021	, Cillin	00 000	
ABSOLUTE BASOPHIL COUNT	0	/cmm	0 - 110	
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY				
PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS.				
PLATELET COUNT (PLT)	100000^{L}	/cmm	150000 - 450000	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE				
PLATELETCRIT (PCT)	0.12	%	0.10 - 0.36	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE				
MEAN PLATELET VOLUME (MPV)	12	fL	6.50 - 12.0	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	20000	,	20000 00000	
PLATELET LARGE CELL COUNT (P-LCC)	39000	/cmm	30000 - 90000	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	20.4	0/	11.0 45.0	
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	38.4	%	11.0 - 45.0	
PLATELET DISTRIBUTION WIDTH (PDW)	16.8	%	15.0 - 17.0	
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	10.0	70	13.0 - 17.0	
NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD				



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST





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Value Unit Test Name **Biological Reference interval**

REPORTING DATE

ERYTHROCYTE SEDIMENTATION RATE (ESR)

ERYTHROCYTE SEDIMENTATION RATE (ESR)

45H

mm/1st hr

0 - 20

: 25/Mar/2025 01:08PM

by RED CELL AGGREGATION BY CAPILLARY PHOTOMETRY

INTERPRETATION:

CLIENT CODE.

- 1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and autoimmune 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.

- 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.
- 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
- 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
- 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



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





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Value Unit Test Name **Biological Reference interval**

CLINICAL CHEMISTRY/BIOCHEMISTRY LIVER FUNCTION TEST (COMPLETE)

LIVER FUNCTION TEST (COMPLETE)				
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.49	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.17	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00	

by CALCULATED, SPECTROPHOTOMETRY 7.00 - 45.00 SGOT/AST: SERUM 23.54 U/L by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM 16.98 U/L 0.00 - 49.00by IFCC, WITHOUT PYRIDOXAL PHOSPHATE **RATIO** 0.00 - 46.00AST/ALT RATIO: SERUM 1.39 by CALCULATED. SPECTROPHOTOMETRY 98.72 ALKALINE PHOSPHATASE: SERUM U/I 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL **PROPANOL** GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 20.17 0.00 - 55.0 U/L by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 6.25 gm/dL 6.20 - 8.00by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.01 gm/dL 3.50 - 5.50by BROMOCRESOL GREEN 2.30 - 3.50 GLOBULIN: SERUM 2.24^{L} gm/dL by CALCULATED, SPECTROPHOTOMETRY 1.79 **RATIO**

<u>INTERPRETATION</u>

A: GRATIO: SERUM

by CALCULATED, SPECTROPHOTOMETRY

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



1.00 - 2.00

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Test Name	Value	Unit	Biological Reference interval
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:

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	
KIDNEY FUNCTION TEST (BASIC)				
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	19.59	mg/dL	10.00 - 50.00	

CREATININE: SERUM 0.69 0.40 - 1.20mg/dL by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM 9.15 7.0 - 25.0mg/dL by CALCULATED, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN)/CREATININE 13.26 **RATIO** 10.0 - 20.0 RATIO: SERUM by CALCULATED, SPECTROPHOTOMETERY UREA/CREATININE RATIO: SERUM **RATIO** 28.39 by CALCULATED, SPECTROPHOTOMETERY

URIC ACID: SERUM 2.50 - 6.80 mg/dL 2.3^{L} by URICASE - OXIDASE PEROXIDASE



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Test Name Value Unit **Biological Reference interval**

INTERPRETATION:

CLIENT CODE.

Normal range for a healthy person on normal diet: 12 - 20

To Differentiate between pre- and postrenal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

Ž.Catabolic states with increased tissue breakdown.

3.GI hemorrhage.

4. High protein intake.

5. Impaired renal function plus.

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushings syndrome, high protein diet,

burns, surgery, cachexia, high fever)

7. Urine reabsorption (e.g. ureterocolostomy)
8. Reduced muscle mass (subnormal creatinine production)
9. Certain drugs (e.g. tetracycline, glucocorticoids)
INCREASED RATIO (pia (PLIN rices diegrapartic particular partic

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

DECREASED RATIO (<10:1) WITH DECREASED BUN:

1.Acute tubular necrosis.

2.Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6.Inherited hyperammonemias (urea is virtually absent in blood)

7.SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

- 1. Phenacimide therapy (accelerates conversion of creatine to creatinine).
- 2. Rhabdomyolysis (releases muscle creatinine).
- 3. Muscular patients who develop renal failure

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

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Value Unit Test Name **Biological Reference interval**

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

C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 0.7 mg/L 0.0 - 6.0

by NEPHLOMETRY

INTERPRETATION:

1. 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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