

# A PIONEER DIAGNOSTIC CENTRE

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

**NAME** : Mrs. KAMLA DEVI

**AGE/ GENDER** : 80 YRS/FEMALE **PATIENT ID** : 1748524

**COLLECTED BY** REG. NO./LAB NO. : 122502070013

REFERRED BY **REGISTRATION DATE** : 07/Feb/2025 11:26 AM BARCODE NO. : 12506884 **COLLECTION DATE** : 07/Feb/2025 11:26AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 07/Feb/2025 01:04PM

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

**Value** Unit **Biological Reference interval Test Name** 

# **HAEMATOLOGY COMPLETE BLOOD COUNT (CBC)**

### **RED BLOOD CELLS (RBCS) COUNT AND INDICES**

11.3 <sup>L</sup>	gm/dL	12.0 - 16.0
4.12	Millions/cmm	3.50 - 5.00
34.1 <sup>L</sup>	%	37.0 - 50.0
82.8	fL	80.0 - 100.0
27.5	pg	27.0 - 34.0
33.2	g/dL	32.0 - 36.0
15.2	%	11.00 - 16.00
47.4	fL	35.0 - 56.0
20.1	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
30.63	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
7950	/cmm	4000 - 11000
58	%	50 - 70
32	%	20 - 40
	4.12  34.1 <sup>L</sup> 82.8  27.5  33.2  15.2  47.4  20.1  30.63	4.12 Millions/cmm  34.1L % 82.8 fL 27.5 pg 33.2 g/dL 15.2 % 47.4 fL 20.1 RATIO  7950 /cmm  58 %



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)





CLIENT CODE.



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

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Test Name	Value	Unit	Biological Reference interval
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
EOSINOPHILS	4	%	1 - 6
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
MONOCYTES	6	%	2 - 12
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS	0	%	0 - 1
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	U	70	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT	4611	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY			
ABSOLUTE LYMPHOCYTE COUNT	2544 <sup>L</sup>	/cmm	800 - 4900
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	A. PKR		
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	318	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT	477	/cmm	80 - 880
by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4//	/ CIIIII	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)	247000	/cmm	150000 - 450000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)	0.29	%	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	12	IL	0.30 - 12.0
PLATELET LARGE CELL COUNT (P-LCC)	97000 <sup>H</sup>	/cmm	30000 - 90000
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	37000		
PLATELET LARGE CELL RATIO (P-LCR)	39.2	%	11.0 - 45.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET DISTRIBUTION WIDTH (PDW)	15.9	%	15.0 - 17.0
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD			
NOTE, TEST CONDUCTED ON EDTA WHOLE BLOOD			



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) MBBS, MD (PATHOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)



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# CLINICAL CHEMISTRY/BIOCHEMISTRY **GLUCOSE FASTING (F)**

GLUCOSE FASTING (F): PLASMA NORMAL: < 100.0 104.73<sup>H</sup> mg/dL

by GLUCOSE OXIDASE - PEROXIDASE (GOD-POD) PREDIABETIC: 100.0 - 125.0

DIABETIC: > 0R = 126.0

INTERPRETATION
IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

1. A fasting plasma glucose level below 100 mg/dl is considered normal.

2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients.

3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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#### SGOT/SGPT PROFILE

SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	32.85	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.42	U/L	0.00 - 49.00
SGOT/SGPT RATIO	1.78		
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
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)

- 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).

#### DDOCNOSTIC SIGNIFICANCE.

PROGNOSTIC SIGNIFICANCE:-	
NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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**CREATININE** 

**CREATININE: SERUM** 1.46<sup>H</sup>

mg/dL 0.40 - 1.20by ENZYMATIC, SPECTROPHOTOMETRY

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### URIC ACID

URIC ACID: SERUM 6.84<sup>H</sup> mg/dL 2.50 - 6.80

by URICASE - OXIDASE PEROXIDASE

### **INTERPRETATION:-**

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.

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.



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# **ENDOCRINOLOGY** THYROID STIMULATING HORMONE (TSH)

THYROID STIMULATING HORMONE (TSH): SERUM 4.79

μIU/mL

0.35 - 5.50

by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) 3rd GENERATION, ULTRASENSITIVE

#### **INTERPRETATION:**

AGE	REFFERENCE RANGE (μIU/mL)
0 – 5 DAYS	0.70 - 15.20
6 Days – 2 Months	0.70 - 11.00
3 – 11 Months	0.70 - 8.40
1 – 5 Years	0.70 – 7.00
6 – 10 Years	0.60 - 5.50
11 - 15	0.50 - 5.50
> 20 Years (Adults)	0.27 – 5.50
PRI	EGNANCY
1st Trimester	0.10 - 3.00
2nd Trimester	0.20 - 3.00
3rd Trimester	0.30 - 4.10

NOTE:-TSH levels are subjected to circardian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50 %. Hence time of the day has influence on the measured serum TSH concentration.

USE: TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality.

#### **INCREASED LEVELS:**

- 1. Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.
- 2. Hypothyroid patients receiving insufficient thyroid replacement therapy.
- 3. Hashimotos thyroiditis.
- 4.DRUGS: Amphetamines, Iodine containing agents and dopamine antagonist.
- 5. Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

### **DECREASED LEVELS:**

- 1. Toxic multi-nodular goitre & Thyroiditis.
- 2. Over replacement of thyroid harmone in treatment of hypothyroidism.
- 3. Autonomously functioning Thyroid adenoma
- 4. Secondary pituatary or hypothalmic hypothyroidism
- 5. Acute psychiatric illness
- 6. Severe dehydration.
- 7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

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8. Pregnancy: 1st and 2nd Trimester LIMITATIONS:

CLIENT CODE.

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

2. Autoimmune disorders may produce spurious results.

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

C-REACTIVE PROTEIN (CRP) QUANTITATIVE: 1.49 0.0 - 6.0

**SERUM** 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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