

### A PIONEER DIAGNOSTIC CENTRE

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

**NAME** : Mr. RAKESH SHARMA

**AGE/ GENDER** : 56 YRS/MALE **PATIENT ID** : 1595992

**COLLECTED BY** REG. NO./LAB NO. : 122502140011

REFERRED BY **REGISTRATION DATE** : 14/Feb/2025 12:32 PM BARCODE NO. : 12507016 **COLLECTION DATE** : 14/Feb/2025 12:37PM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 14/Feb/2025 03:28PM

**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**

| HAEMOGLOBIN (HB) by CALORIMETRIC  | 12.6              | gm/dL        | 12.0 - 17.0  |
|---|-------------------|--------------|--|
| RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE                                | 4.61              | Millions/cmm | 3.50 - 5.00  |
| PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                                   | 37.7 <sup>L</sup> | %            | 40.0 - 54.0  |
| MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer                              | 81.9              | fL           | 80.0 - 100.0   |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                         | 27.4              | pg           | 27.0 - 34.0  |
| MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                   | 33.4              | g/dL         | 32.0 - 36.0  |
| RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                       | 14.3              | %            | 11.00 - 16.00  |
| RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER                       | 43.7              | fL           | 35.0 - 56.0  |
| MENTZERS INDEX by CALCULATED  | 17.77             | RATIO        | BETA THALASSEMIA TRAIT: < 13.0<br>IRON DEFICIENCY ANEMIA: >13.0  |
| GREEN & KING INDEX by CALCULATED  | 25.47             | RATIO        | BETA THALASSEMIA TRAIT:<= 65.0<br>IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CELLS (WBCS)  |                   |              |  |
| TOTAL LEUCOCYTE COUNT (TLC) by Flow cytometry by SF cube & microscopy  DIFFERENTIAL LEUCOCYTE COUNT (DLC) | 8500              | /cmm         | 4000 - 11000   |
| NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY   | 56                | %            | 50 - 70  |
| LYMPHOCYTES   | 30                | %            | 20 - 40  |



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|--|-------------------|----------|-------------------------------|
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  |                   |          |                               |
| EOSINOPHILS  | 6 <sup>H</sup>    | %        | 1 - 6                         |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  |                   |          |                               |
| MONOCYTES  | 8                 | %        | 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  | 4760              | /cmm     | 2000 - 7500                   |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  |                   |          |                               |
| ABSOLUTE LYMPHOCYTE COUNT  | 2550 <sup>L</sup> | /cmm     | 800 - 4900                    |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | - DKR             |          |                               |
| ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY                      | 510 <sup>H</sup>  | /cmm     | 40 - 440                      |
| ABSOLUTE MONOCYTE COUNT  | 680               | /cmm     | 80 - 880                      |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY  | 000               | / CHIIII | 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)   | 234000            | /cmm     | 150000 - 450000               |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  |                   |          |                               |
| PLATELETCRIT (PCT)   | 0.24              | %        | 0.10 - 0.36                   |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV)               | 10                | fL       | 6.50 - 12.0                   |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  | 10                | IL       | 0.30 - 12.0                   |
| PLATELET LARGE CELL COUNT (P-LCC)  | 71000             | /cmm     | 30000 - 90000                 |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  |                   |          |                               |
| PLATELET LARGE CELL RATIO (P-LCR)  | 30.2              | %        | 11.0 - 45.0                   |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE  |                   |          |                               |
| PLATELET DISTRIBUTION WIDTH (PDW)  | 16.3              | %        | 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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**Value** Unit **Biological Reference interval Test Name** 

#### **GLYCOSYLATED HAEMOGLOBIN (HBA1C)**

6 % GLYCOSYLATED HAEMOGLOBIN (HbA1c): 4.0 - 6.4

WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)

mg/dL ESTIMATED AVERAGE PLASMA GLUCOSE 125.5 60.00 - 140.00

by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)

**INTERPRETATION:** 

| AS PER AMERICAN D                      | IABETES ASSOCIATION (ADA):           |       |
|--|--------------------------------------|-------|
| REFERENCE GROUP                        | GLYCOSYLATED HEMOGLOGIB (HBAIC) in % |       |
| Non diabetic Adults >= 18 years        | <5.7                                 |       |
| At Risk (Prediabetes)                  | 5.7 – 6.4                            |       |
| Diagnosing Diabetes                    | >= 6.5                               |       |
|  | Age > 19 Y                           | ears  |
|  | Goals of Therapy:                    | < 7.0 |
| Therapeutic goals for glycemic control | Actions Suggested:                   | >8.0  |
|  | Age < 19 Y                           | ears  |
|  | Goal of therapy:                     | <7.5  |

#### COMMENTS:

- 1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.
- 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.
- 3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 4.High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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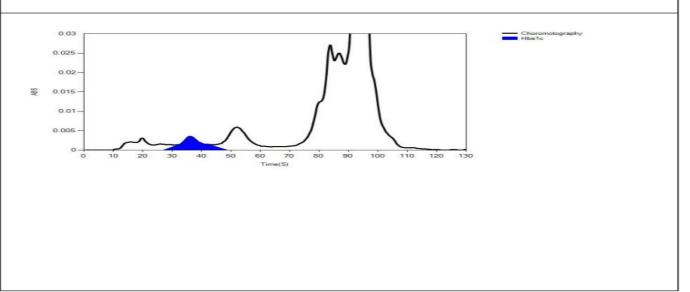
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**Test Name Value** Unit **Biological Reference interval** 

#### LIFOTRONIC Graph Report

| Name :  | Case:       | Patient Type :                | Test Date: 14/02/2025 19:41:22 |
|---------|-------------|-------------------------------|--------------------------------|
| Age:    | Department: | Sample Type: Whole Blood EDTA | Sample ld: 12507016            |
| Gender: |             |                               | Total Area: 9396               |

| Peak Name | Retention Time(s) | Absorbance | Area | Result (Area %) |
|-----------|-------------------|------------|------|-----------------|
| HbA0      | 69                | 2507       | 8319 | 83.2            |
| HbA1c     | 38                | 59         | 603  | 6.0             |
| La1c      | 26                | 36         | 249  | 2.5             |
| HbF       | 19                | 16         | 15   | 0.1             |
| Hba1b     | 14                | 31         | 119  | 1.2             |
| Hba1a     | 11                | 21         | 91   | 0.9             |





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### **CLINICAL CHEMISTRY/BIOCHEMISTRY**

### **LIPID PROFILE: BASIC**

| CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP            | 120.93                | mg/dL | OPTIMAL: < 200.0<br>BORDERLINE HIGH: 200.0 -<br>239.0<br>HIGH CHOLESTEROL: > OR =<br>240.0  |
|--|-----------------------|-------|---|
| TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE (ENZYMATIC) | 88.41                 | mg/dL | OPTIMAL: < 150.0<br>BORDERLINE HIGH: 150.0 -<br>199.0<br>HIGH: 200.0 - 499.0<br>VERY HIGH: > OR = 500.0                                 |
| HDL CHOLESTEROL (DIRECT): SERUM by SELECTIVE INHIBITION        | 35.77                 | mg/dL | LOW HDL: < 30.0<br>BORDERLINE HIGH HDL: 30.0 -<br>60.0<br>HIGH HDL: > OR = 60.0   |
| LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY        | 67.48                 | mg/dL | OPTIMAL: < 100.0<br>ABOVE OPTIMAL: 100.0 - 129.0<br>BORDERLINE HIGH: 130.0 -<br>159.0<br>HIGH: 160.0 - 189.0<br>VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY    | 85.16                 | mg/dL | OPTIMAL: < 130.0<br>ABOVE OPTIMAL: 130.0 - 159.0<br>BORDERLINE HIGH: 160.0 -<br>189.0<br>HIGH: 190.0 - 219.0<br>VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOMETRY       | 17.68                 | mg/dL | 0.00 - 45.00  |
| TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHOTOMETRY           | $330.27^{\mathrm{L}}$ | mg/dL | 350.00 - 700.00   |
| CHOLESTEROL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY  | 3.38                  | RATIO | LOW RISK: 3.30 - 4.40<br>AVERAGE RISK: 4.50 - 7.0   |



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|---|-------------------|-------|---|
|   |                   |       | MODERATE RISK: 7.10 - 11.0<br>HIGH RISK: > 11.0                       |
| LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY           | 1.89              | RATIO | LOW RISK: 0.50 - 3.0<br>MODERATE RISK: 3.10 - 6.0<br>HIGH RISK: > 6.0 |
| TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 2.47 <sup>L</sup> | 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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| Test Name   | Value             | Unit  | Biological Reference interval |  |  |  |
|---|-------------------|-------|-------------------------------|--|--|--|
| KIDNEY FUNCTION TEST (BASIC)  |                   |       |                               |  |  |  |
| UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)                                    | 29.25             | mg/dL | 10.00 - 50.00                 |  |  |  |
| CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY  | 1.31              | mg/dL | 0.40 - 1.40                   |  |  |  |
| BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETERY                        | 13.67             | mg/dL | 7.0 - 25.0                    |  |  |  |
| BLOOD UREA NITROGEN (BUN)/CREATININE<br>RATIO: SERUM<br>by CALCULATED, SPECTROPHOTOMETERY | 10.44             | RATIO | 10.0 - 20.0                   |  |  |  |
| UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETERY                            | 22.33             | RATIO |                               |  |  |  |
| URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE  | 3.54 <sup>L</sup> | mg/dL | 3.60 - 7.70                   |  |  |  |



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**INTERPRETATION:** 

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).

\*\*\* End Of Report \*\*\*



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