# **PKR JAIN HEALTHCARE INSTITUTE** NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

| NAME  | : Mrs. POOJA  |                          |                                      |                       |  |  |
|---|---|--------------------------|--------------------------------------|-----------------------|--|--|
| AGE/ GENDER   | ED BY :<br>ED BY :  |                          | PATIENT ID                           | : 1587927             | ,  |  |
| COLLECTED BY  |   |                          | REG. NO./LAB NO.                     | : 122408220025        |  |  |
| REFERRED BY   |   |                          | REGISTRATION DATE<br>COLLECTION DATE |                       | : 22/Aug/2024 02:23 PM<br>: 22/Aug/2024 02:54PM              |  |
| BARCODE NO.   |   |                          |                                      |                       |  |  |
| CLIENT CODE.  | : P.K.R JAIN HEALTHCARE INSTITU   | TE <b>REPORTING DATE</b> |                                      | : 22/Aug/2024 05:14PM |  |  |
| CLIENT ADDRESS  | : NASIRPUR, HISSAR ROAD, AMBA   | LA CITY - HA             | ARYANA                               |                       |  |  |
| Test Name   |   | Value                    | Unit                                 | E                     | Biological Reference interval                                |  |
|   |   | HAEN                     | IATOLOGY                             |                       |  |  |
|   | CON   | /IPLETE BL               | OOD COUNT (CBC)                      |                       |  |  |
| RED BLOOD CELLS (F  | RBCS) COUNT AND INDICES   |                          |                                      |                       |  |  |
| HAEMOGLOBIN (HB)  |   | 8.9 <sup>L</sup>         | gm/dL                                |                       | 12.0 - 16.0  |  |
| RED BLOOD CELL (RE  | COUNT   | 4.31                     | Millions/cr                          | mm                    | 3.50 - 5.00  |  |
| PACKED CELL VOLUN   | /IE (PCV)   | 29 <sup>L</sup>          | %                                    |                       | 37.0 - 50.0  |  |
| MEAN CORPUSCULA   | AUTOMATED HEMATOLOGY ANALYZER<br>R VOLUME (MCV)<br>AUTOMATED HEMATOLOGY ANALYZER            | 67.3 <sup>L</sup>        | KR 1                                 |                       | 80.0 - 100.0   |  |
| MEAN CORPUSCULA   | R HAEMOGLOBIN (MCH)   | 20.7 <sup>L</sup>        | pg                                   |                       | 27.0 - 34.0  |  |
| MEAN CORPUSCULA   | AUTOMATED HEMATOLOGY ANALYZER<br>R HEMOGLOBIN CONC. (MCHC)<br>AUTOMATED HEMATOLOGY ANALYZER | 30.8 <sup>L</sup>        | g/dL                                 |                       | 32.0 - 36.0  |  |
| RED CELL DISTRIBUT  | TION WIDTH (RDW-CV)   | 22.5 <sup>H</sup>        | %                                    |                       | 11.00 - 16.00  |  |
|   | TION WIDTH (RDW-SD)<br>AUTOMATED HEMATOLOGY ANALYZER  | 56.4 <sup>H</sup>        | fL                                   |                       | 35.0 - 56.0  |  |
| MENTZERS INDEX  |   | 15.61                    | RATIO                                |                       | BETA THALASSEMIA TRAIT: < 13<br>IRON DEFICIENCY ANEMIA: >13. |  |
| GREEN & KING INDE<br>by calculated                          | Х   | 35.22                    | RATIO                                |                       | BETA THALASSEMIA TRAIT:<= 65<br>IRON DEFICIENCY ANEMIA: > 65 |  |
| WHITE BLOOD CELL  | <u>S (WBCS)</u>   |                          |                                      |                       |  |  |
| TOTAL LEUCOCYTE C<br>by FLOW CYTOMETR<br>DIFFERENTIAL LEUCO | Y BY SF CUBE & MICROSCOPY   | 5610                     | /cmm                                 |                       | 4000 - 11000   |  |
| NEUTROPHILS   |   | 52                       | %                                    | I                     | 50 - 70  |  |
|   | Y BY SF CUBE & MICROSCOPY   |                          |                                      | ·                     | · V  |  |
| LYMPHOCYTES   | Y BY SF CUBE & MICROSCOPY   | 41 <sup>H</sup>          | %                                    | :                     | 20 - 40  |  |
| EOSINOPHILS   |   | 0 <sup>L</sup>           | %                                    |                       | 1 - 6  |  |
| by FLOW CYTOMETR<br>MONOCYTES                               | Y BY SF CUBE & MICROSCOPY   | 7                        | %                                    |                       | 2 - 12   |  |

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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.)** 



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

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|                | PATIENT ID  | : 1587927   |
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|                | COLLECTION DATE   | : 22/Aug/2024 02:54PM   |
| TUTE           | <b>REPORTING DATE</b>   | : 22/Aug/2024 05:14PM   |
| BALA CITY - HA | RYANA   | 0   |
| Value          | Unit  | Biological Reference interval   |
|                |   |   |
| 0              | %   | 0 - 1   |
|                |   |   |
| 2917           | /cmm  | 2000 - 7500   |
|                |   |   |
| 2300           | /cmm  | 800 - 4900  |
| ٥L             | /cmm  | 40 - 440  |
|                |   |   |
| 393            | /cmm  | 80 - 880  |
|                | A K   | 0 - 110   |
| U              | 7011111   | 0-110   |
| ERS.           |   |   |
| 321000         | /cmm  | 150000 - 450000   |
| 021000         | , on an   |   |
| 0.28           | %   | 0.10 - 0.36   |
| 0              | - A   | ( 50, 12.0  |
| 9              | ΤL  | 6.50 - 12.0   |
| 60000          | /cmm  | 30000 - 90000   |
|                |   |   |
| 18.5           | %   | 11.0 - 45.0   |
| 15             | 0/  | 15.0 - 17.0   |
| 10             | 70  | 15.0 - 17.0   |
|                |   |   |
| 3              | ALA CITY - HA<br>Value 0 2917 2300 0 393 0 ERS. 321000 0.28 9 60000 | REG. NO./LAB NO.         REGISTRATION DATE         COLLECTION DATE         COLLECTION DATE         REPORTING DATE         Value       Unit         0       %         2917       /cmm         2300       /cmm         0       /cmm         393       /cmm         0       /cmm         0       /cmm         0       /cmm         321000       /cmm         0.28       %         9       fl         60000       /cmm         18.5       % |



NAME

: Mrs. POOJA

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| NAME :                           | Mrs. POOJA                    |                            |                        |                               |
|----------------------------------|-------------------------------|----------------------------|------------------------|-------------------------------|
| AGE/ GENDER :                    | 36 YRS/FEMALE                 | PATI                       | ENT ID                 | : 1587927                     |
| COLLECTED BY :                   |                               | REG. 1                     | NO./LAB NO.            | : 122408220025                |
| <b>REFERRED BY</b> :             |                               | REGIS                      | TRATION DATE           | : 22/Aug/2024 02:23 PM        |
| BARCODE NO. :                    | 12504264                      | COLL                       | ECTION DATE            | : 22/Aug/2024 02:54PM         |
| CLIENT CODE.                     | P.K.R JAIN HEALTHCARE INSTITU | ГЕ <b>REPO</b>             | RTING DATE             | : 22/Aug/2024 05:14PM         |
| CLIENT ADDRESS :                 | NASIRPUR, HISSAR ROAD, AMBAL  | A CITY - HARYANA           | L                      |                               |
|                                  |                               |                            |                        |                               |
|                                  |                               |                            |                        |                               |
| Test Name                        |                               | Value                      | Unit                   | Biological Reference interval |
| Test Name                        |                               |                            |                        |                               |
| Test Name                        | CLINICAL                      |                            | Unit<br>BIOCHEMISTR    |                               |
| Test Name                        |                               |                            | BIOCHEMISTR            |                               |
| Test Name<br>GLUCOSE RANDOM (R): |                               | CHEMISTRY/                 | BIOCHEMISTR            |                               |
|                                  | PLASMA                        | CHEMISTRY/<br>GLUCOSE RANE | BIOCHEMISTR<br>DOM (R) | Y                             |

(after consumption of 75 gms of glucose) is recommended for all such patients.
 3. A random glucose level of above 200 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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|                | : Mrs. POOJA  |           |                          |  |  |
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| COLLECTED BY   | RRED BY:REGISDDE NO.: 12504264COLLET CODE.: P.K.R JAIN HEALTHCARE INSTITUTEREPORT |           | REG. NO./LAB NO.         | : <b>122408220025</b><br>: 22/Aug/2024 02:23 PM<br>: 22/Aug/2024 02:54PM |  |
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| CLIENT ADDRESS |   |           | ARYANA                   |  |  |
| Test Name      |   | Value     | Unit                     | Biological Reference interval  |  |
|                | AL  | KALINE PH | IOSPHATASE (ALP)         |  |  |
| PROPANOL       | YL PHOSPHATASE BY AMINO METHYL  |           |                          |  |  |

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



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|                                |                           |  |
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| REG. 1                         | NO./LAB NO.               | : 122408220025                                 |
| LE PATI                        | ENT ID                    | : 1587927                                      |
|                                |                           |  |
|                                | LE PATI                   | LE PATIENT ID                                  |

|  | ONLON |       |              |
|--|-------|-------|--------------|
| CALCIUM: SERUM<br>by ARSENAZO III, SPECTROPHOTOMETRY | 9.51  | mg/dL | 8.50 - 10.60 |
| by Antoena Eo III, of Eo Intol Horometrich           |       |       |              |

#### INTERPRETATION:-

1.Serum calcium (total) estimation is used for the diagnosis and monitoring of a wide range of disorders including diseases of bone, kidney, parathyroid gland, or gastrointestinal tract.

2. Calcium levels may also reflect abnormal vitamin D or protein levels.

3. The calcium content of an adult is somewhat over 1 kg (about 2% of the body weight). Of this, 99% is present as calcium hydroxyapatite in bones and <1% is present in the extra-osseous intracellular space or extracellular space (ECS).

4. In serum, calcium is bound to a considerable extent to proteins (approximately 40%), 10% is in the form of inorganic complexes, and 50% is present as free or ionized calcium.

**NOTE:**-Calcium ions affect the contractility of the heart and the skeletal musculature, and are essential for the function of the nervous system. In addition, calcium ions play an important role in blood clotting and bone mineralization.

# HYPOCALCEMIA (LOW CALCIUM LEVELS) CAUSES :-

1. Due to the absence or impaired function of the parathyroid glands or impaired vitamin-D synthesis.

2. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).

3.NOTE:- A characteristic symptom of hypocalcemia is latent or manifest tetany and osteomalacia.

# HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1. Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2. Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.



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NAME : Mrs. POOJA AGE/ GENDER : 36 YRS/FEMALE **PATIENT ID** :1587927 **COLLECTED BY** : 122408220025 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Aug/2024 02:23 PM **BARCODE NO.** :12504264 **COLLECTION DATE** : 22/Aug/2024 02:54PM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE **REPORTING DATE** : 22/Aug/2024 05:14PM **CLIENT ADDRESS** : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Test Name Value Unit **Biological Reference interval** 

| PHOSPHOROUS  |      |       |             |  |  |  |  |
|--|------|-------|-------------|--|--|--|--|
| PHOSPHOROUS: SERUM<br>by phosphomolybdate, spectrophotometry | 2.77 | mg/dL | 2.30 - 4.70 |  |  |  |  |

#### **INTERPREATION:-**

1. Eighty-eight percent of the phosphorus contained in the body is localized in bone in the form of hydroxyapatite. The remainder is involved in intermediary carbohydrate metabolism and in physiologically important substances such as phospholipids, nucleic acids, and adenosine triphosphate (ATP).

2.Phosphorus occurs in blood in the form of inorganic phosphate and organically bound phosphoric acid. The small amount of extracellular organic phosphorus is found exclusively in the form of phospholipids.

3. Serum phosphate concentrations are dependent on meals and variation in the secretion of hormones such as parathyroid hormone (PTH) and may vary widely.

# DECREASED (HYPOPHOSPHATEMIA):-

1.Shift of phosphate from extracellular to intracellular.

2.Renal phosphate wasting.

3.Loss from the gastrointestinal tract.

4.Loss from intracellular stores.

# INCREASED (HYPERPHOPHATEMIA):-

1. Inability of the kidneys to excrete phosphate.

2. Increased intake or a shift of phosphate from the tissues into the extracellular fluid.

#### SIGNIFICANCE:-

1.Phosphate levels may be used in the diagnosis and management of a variety of disorders including bone, parathyroid and renal disease. 2.Hypophosphatemia is relatively common in hospitalized patients. Levels less than 1.5 mg/dL may result in muscle weakness, hemolysis of red cells, coma, and bone deformity and impaired bone growth.

3. The most acute problem associated with rapid elevations of serum phosphate levels is hypocalcemia with tetany, seizures, and hypotension. Soft tissue calcification is also an important long-term effect of high phosphorus levels.

4.Phosphorus levels less than 1.0 mg/dL are potentially life-threatening and are considered a critical value.

**NOTE**: Phosphorus has a very strong biphasic circadian rhythm. Values are lowest in the morning, peak first in the late afternoon and peak again in the late evening. The second peak is quite elevated and results may be outside the reference range



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| Test Name  |                            | Value             | Unit             | Biological Reference interval |  |
|  |                            | KIDNEY FUNCTIO    | ON TEST (BASIC)  |                               |  |
| UREA: SERUM<br>by UREASE - GLUTAMAT                        | E DEHYDROGENASE (GLDH)     | 22.32             | mg/dL            | 10.00 - 50.00                 |  |
| CREATININE: SERUM<br>by ENZYMATIC, SPECTR                  |                            | 0.69              | mg/dL            | 0.40 - 1.20                   |  |
| BLOOD UREA NITROGE   |                            | 10.43             | mg/dL            | 7.0 - 25.0                    |  |
| BLOOD UREA NITROGE<br>RATIO: SERUM<br>by CALCULATED, SPECT |                            | 15.12             | RATIO            | 10.0 - 20.0                   |  |
| UREA/CREATININE RA   | TIO: SERUM                 | 32.35             | RATIO            |                               |  |
| URIC ACID: SERUM   |                            | 3.69              | mg/dL            | 2.50 - 6.80                   |  |





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by URICASE - OXIDASE PEROXIDASE



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| CLIENT ADDRESS  | : NASIRPUR, HISSAR ROAD, AMBALA ( | CITY - HARYANA  |   |  |
| Test Name   | Va                                | alue  | Unit  | Biological Reference interval              |
| To Differentiate betw.<br><b>INCREASED RATIO</b> (>2<br>1.Prerenal azotemia<br>glomerular filtration<br>2.Catabolic states wi<br>3.Gl hemorrhage.<br>4.High protein intake<br>5.Impaired renal fun<br>6.Excess protein inta<br>burns,surgery, cache<br>7.Urine reabsorption<br>8.Reduced muscle m<br>9.Certain drugs (e.g. 1<br><b>INCREASED RATIO</b> (>2<br>1.Postrenal azotemia<br>2.Prerenal azotemia<br>2.Prerenal azotemia<br>2.Prerenal azotemia<br>3.Severe liver disease<br>4.Other causes of de<br>5.Repeated dialysis (<br>6.Inherited hyperam<br>7.SIADH (syndrome c<br>8.Pregnancy.<br><b>DECREASED RATIO</b> (<<br>1.Phenacimide thera<br>2.Rhabdomyolysis (r:<br><b>INAPPROPIATE RATIO</b><br>1.Diabetic ketoacido<br>should produce an ir | th increased tissue breakdown.    | g. infection, GI bleedin<br>creatinine) (e.g. obstr<br>of extracellular fluid).<br>od).<br>e to tubular secretion o<br>creatinine). | g, thyrotoxico<br>uctive uropatl<br>f urea. | sis, Cushings syndrome, high protein diet, |



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