



A PIONEER DIAGNOSTIC CENTRE

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

NAME : Mr. NARINDER VERMA

AGE/ GENDER : 35 YRS/MALE **PATIENT ID** : 1531845

COLLECTED BY : 122504060006 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 06/Apr/2025 11:00 AM BARCODE NO. : 12507923 **COLLECTION DATE** : 06/Apr/2025 11:38AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 06/Apr/2025 12:34PM

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

Value Unit Test Name **Biological Reference interval**

HAEMATOLOGY HAEMOGLOBIN (HB)

HAEMOGLOBIN (HB) gm/dL 12.0 - 17.09.9L

by CALORIMETRIC

INTERPRETATION:-Hemoglobin is the protein molecule in red blood cells that carries oxygen from the lungs to the bodys tissues and returns carbon dioxide from the

tissues back to the lungs. A low hemoglobin level is referred to as ANEMIA or low red blood count.

ANEMIA (DECRESED HAEMOGLOBIN):

1) Loss of blood (traumatic injury, surgery, bleeding, colon cancer or stomach ulcer)

2) Nutritional deficiency (iron, vitamin B12, folate)

- 3) Bone marrow problems (replacement of bone marrow by cancer)
- 4) Suppression by red blood cell synthesis by chemotherapy drugs

5) Kidney failure

6) Abnormal hemoglobin structure (sickle cell anemia or thalassemia). POLYCYTHEMIA (INCREASED HAEMOGLOBIN):

- 1) People in higher altitudes (Physiological)
- 2) Smoking (Secondary Polycythemia)
- 3) Dehydration produces a falsely rise in hemoglobin due to increased haemoconcentration
- 4) Advanced lung disease (for example, emphysema)
- 5) Certain tumors
- 6) A disorder of the bone marrow known as polycythemia rubra vera,
- 7) Abuse of the drug erythropoetin (Epogen) by athletes for blood doping purposes (increasing the amount of oxygen available to the body by chemically raising the production of red blood cells).

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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



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

CLINICAL CHEMISTRY/BIOCHEMISTRY

KIDNEY FUNCTION TEST (BASIC)

| UREA: SERUM | 44.34 | mg/dL | 10.00 - 50.00 |
|---|-------------------|----------------|---------------|
| by UREASE - GLUTAMATE DEHYDROGENASE (GLDF | H) | | |
| CREATININE: SERUM | 1.73 ^H | mg/dL | 0.40 - 1.40 |
| by ENZYMATIC, SPECTROPHOTOMETERY | 1.73 | | |
| BLOOD UREA NITROGEN (BUN): SERUM | 20.72 | mg/dL | 7.0 - 25.0 |
| by CALCULATED, SPECTROPHOTOMETERY | | | |
| BLOOD UREA NITROGEN (BUN)/CREATIN | IINE 11.98 | RATIO | 10.0 - 20.0 |
| RATIO: SERUM | | | |
| by CALCULATED, SPECTROPHOTOMETERY | | | |
| UREA/CREATININE RATIO: SERUM | 25.63 | RATIO | |
| by CALCULATED, SPECTROPHOTOMETERY | | | |
| URIC ACID: SERUM | 6.56 | mg/dL | 3.60 - 7.70 |
| by URICASE - OXIDASE PEROXIDASE | | | |
| ADVICE | KINDLY CORREL | ATE CLINICALLY | |



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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 rises dispreparties toly more than

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**

GLOMERULAR FILTERATION RATE (GFR) - ESTIMATED

ESTIMATED GLOMERULAR FILTERATION RATE

mL/min/1.73m2

KIDNEY FAILURE: < 15.0

(eGFR): SERUM

CLIENT CODE.

by SPECTROPHOTOMETRY-ENZYMATIC, MDRD CALCULATION

INTERPRETATION:

| CKD STAGE | DESCRIPTION | GFR (mL/min/1.73m2) | ASSOCIATED FINDINGS |
|-----------|--------------------------|-----------------------|--------------------------|
| G1 | Normal kidney function | >90 | No proteinuria_ |
| G2 | Kidney damage with | >90 | Presence of Protein , |
| | normal or high GFR | | Albumin or cast in urine |
| G3a | Mild decrease in GFR | 60 -89 | |
| G3b | Moderate decrease in GFR | 30-59 | |
| G4 | Severe decrease in GFR | 15-29 | |
| G5 | Kidney failure | <15 | |

- 1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a
- measure of functioning nephrons of the kidney.

 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

 3. In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure eGFR with Cystatin C for confirmation of CKD 4. eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage
- 5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure 6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
 7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).
- ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

*** End Of Report ***



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