CLIENT CODE.



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

## A PIONEER DIAGNOSTIC CENTRE

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

REPORTING DATE

: 19/Sep/2024 11:05AM

**NAME** : Mr. VINOD KUMAR

**AGE/ GENDER** : 66 YRS/MALE **PATIENT ID** :1618019

**COLLECTED BY** : 122409190003 REG. NO./LAB NO.

REFERRED BY **REGISTRATION DATE** : 19/Sep/2024 08:46 AM BARCODE NO. : 12504787 **COLLECTION DATE** : 19/Sep/2024 08:50AM

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

: P.K.R JAIN HEALTHCARE INSTITUTE

Test Name Value Unit **Biological Reference interval** 

### **CLINICAL CHEMISTRY/BIOCHEMISTRY**

### **KIDNEY FUNCTION TEST (BASIC)**

UREA: SERUM	24.31	mg/dL	10.00 - 50.00
by UREASE - GLUTAMATE DEHYDROGENASE (GLDH CREATININE: SERUM	0.95	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECTROPHOTOMETERY	0.73	Trig/ uL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETERY	11.36	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE	11.96	RATIO	10.0 - 20.0
RATIO: SERUM			
by CALCULATED, SPECTROPHOTOMETERY			
UREA/CREATININE RATIO: SERUM	25.59	RATIO	
by CALCULATED, SPECTROPHOTOMETERY			
URIC ACID: SERUM	6.78	mg/dL	3.60 - 7.70
by URICASE - OXIDASE PEROXIDASE			



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)





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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).

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.)



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

## A PIONEER DIAGNOSTIC CENTRE

REPORTING DATE

: 19/Sep/2024 11:11AM

: Mr. VINOD KUMAR **NAME** 

**AGE/ GENDER** : 66 YRS/MALE **PATIENT ID** :1618019

**COLLECTED BY** REG. NO./LAB NO. : 122409190003

REFERRED BY **REGISTRATION DATE** : 19/Sep/2024 08:46 AM BARCODE NO. : 12504787 **COLLECTION DATE** : 19/Sep/2024 08:50AM

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

: P.K.R JAIN HEALTHCARE INSTITUTE

Test Name Value Unit **Biological Reference interval** 

### **ELECTROLYTES PROFILE: SODIUM AND POTASSIUM**

SODIUM: SERUM 139.3 mmol/L 135.0 - 150.0

by ISE (ION SELECTIVE ELECTRODE)

POTASSIUM: SERUM 4.71 mmol/L 3.50 - 5.00by ISE (ION SELECTIVE ELECTRODE)

### **INTERPRETATION:-**

CLIENT CODE.

#### SODIUM:-

Sodium is the major cation of extra-cellular fluid. Its primary function in the body is to chemically maintain osmotic pressure & acid base balance & to transmit nerve impulse.

#### HYPONATREMIA (LOW SODIUM LEVEL) CAUSES:-

- 1. Low sodium intake.
- 2. Sodium loss due to diarrhea & vomiting with adequate water and iadequate salt replacement.
- 3. Diuretics abuses.
- 4. Salt loosing nephropathy.
- 5. Metabolic acidosis.
- 6. Adrenocortical issuficiency.
- 7. Hepatic failure.

#### HYPERNATREMIA (INCREASED SODIUM LEVEL) CAUSES:-

- 1. Hyperapnea (Prolonged)
- 2. Diabetes insipidus
- 3. Diabetic acidosis
- 4. Cushings syndrome
- 5.Dehydration

#### POTASSIUM:-

Potassium is the major cation in the intracellular fluid. 90% of potassium is concentrated within the cells. When cells are damaged, potassium is released in the blood.

#### HYPOKALEMIA (LOW POTASSIUM LEVELS):-

- 1. Diarrhoea, vomiting & malabsorption.
- 2. Severe Burns.
- 3. Increased Secretions of Aldosterone

#### HYPERKALEMIA (INCREASED POTASSIUM LEVELS):-

- 1.Oliguria
- 2. Renal failure or Shock
- 3. Respiratory acidosis
- 4.Hemolysis of blood

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5 - 25

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# **CLINICAL PATHOLOGY**

PROTEINS: RANDOM URINE

mg/dL

PROTEINS: RANDOM URINE by BIURET, SPECTROPHOTOMETRY

**INTERPRETATION:** 

TYPES OF PROTEINURIA	TOTAL PROTEINS IN mg/24 HOURS	CONDITIONS
MINIMAL PROTEINURIA:	150 - 500 mg/24 hours	Chronic pyelonephritis, Chronic Interstial Nephritis, Renal Tubular disease, Postural
MODERATE PROTEINURIA:	500 - 1000 mg/24 hours	Nephrosclerosis, Multiple Myeloma, Toxic Nephropathy, Renal Calculi
HEAVY PROTEINURIA:	1000 - 3000 mg/24 hours	Nephrotic Syndrome, Acute Rapidly Progressive & Chronic Glomerulonephritis, Diabetes mellitus, Lupus erythematosus, Druga like Pencillamine, Heavy metals like Gold & Mercury.

 $31.23^{H}$ 

- 1. Excreation of total protein in individuals is highly variable with or without kidney disease.
- 2. Conditions affecting protein excreation other than kidney didease are urinary tract infection, diet, mensturation & physical activity.

1. Diagnosis of kidney disease and response to therapy is usually obtained by quatitattively analyzing the amount of protein excreated in urine over a 24 hour period.

NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dl) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASÉ, URINE PROTEIN: CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.

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



CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

