

(A Unit of KOS Healthcare)



Dr. Vinay Chopra
MD (Pathology & Microbiology)
Chairman & Consultant Pathologist

Dr. Yugam Chopra
MD (Pathology)
CEO & Consultant Pathologist

NAME : Mr. SUNIL NAUHARIA

**AGE/ GENDER** : 62 YRS/MALE **PATIENT ID** : 1687456

COLLECTED BY: SURJESH REG. NO./LAB NO. : 012412010016

 REFERRED BY
 : 01/Dec/2024 09:51 AM

 BARCODE NO.
 : 01521784
 COLLECTION DATE
 : 01/Dec/2024 10:18AM

 CLIENT CODE.
 : KOS DIAGNOSTIC LAB
 REPORTING DATE
 : 01/Dec/2024 11:06AM

**CLIENT ADDRESS**: 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name Value Unit Biological Reference interval

### CLINICAL CHEMISTRY/BIOCHEMISTRY

**UREA** 

UREA: SERUM 40.44 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)

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**CREATININE** 

CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETRY 1.42<sup>H</sup> mg/dL 0.40 - 1.40



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	ELEC'	TROLYTES COM	IPLETE PROFILE	

SODIUM: SERUM	143.9	mmol/L	135.0 - 150.0
by ISE (ION SELECTIVE ELECTRODE)			
POTASSIUM: SERUM	4.84	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE)			
CHLORIDE: SERUM	107.93	mmol/L	90.0 - 110.0
by ISE (ION SELECTIVE ELECTRODE)			

#### **INTERPRETATION:-**

#### 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:-

- 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



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KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana



# KOS Diagnostic Lab (A Unit of KOS Healthcare)



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Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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

4. Hemolysis of blood

CLIENT CODE.



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

### TUMOUR MARKER PROSTATE SPECIFIC ANTIGEN (PSA) - TOTAL

PROSTATE SPECIFIC ANTIGEN (PSA) - TOTAL: 0.27 ng/mL 0.0 - 4.0

**SERUM** 

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

#### INTERPRETATION:

#### NOTE:

- 1. This is a recommended test for detection of prostate cancer along with Digital Rectal Examination (DRE) in males above 50 years of age.
- 2. False negative / positive results are observed in patients receiving mouse monoclonal antibodies for diagnosis or therapy
- 3. PSA levels may appear consistently elevated / depressed due to the interference by heterophilic antibodies & nonspecific protein binding 4. Immediate PSA testing following digital rectal examination, ejaculation, prostatic massage, indwelling catheterization, ultrasonography and needle biopsy of prostate is not recommended as they falsely elevate levels
- 5. PSA values regardless of levels should not be interpreted as absolute evidence of the presence or absence of disease. All values should be correlated with clinical findings and results of other investigations
- 6. Sites of Non-prostatic PSA production are breast epithelium, salivary glands, peri-urethral & anal glands, cells of male urethra & breast milk 7. Physiological decrease in PSA level by 18% has been observed in hospitalized / sedentary patients either due to supine position or suspended sexual activity
- 8. The concentration of PSA in a given specimen, determined with assays from different manufacturers, may not be comparable due to differences in assay methods, calibration, and reagent specificity.

#### RECOMMENDED TESTING INTERVALS

- 1. Preoperatively (Baseline)
- 2. 2-4 Days Post operatively
- 3. Prior to discharge from hospital

Monthly Follow Up if levels are high and showing a rising trend

POST SURGERY	FREQUENCY OF TESTING
1st Year	Every 3 Months
2 <sup>nd</sup> Year	Every 4 Months
3 <sup>rd</sup> Year Onwards	Every 6 Months

#### **CLINICAL USE:**

- 1. An aid in the early detection of Prostate cancer when used in conjunction with Digital rectal examination in males more than 50 years of age and in those with two or more affected first degree relatives.
- 2. Followup and management of Prostate cancer patients.
- 3. Detect metastatic or persistent disease in patients following surgical or medical treatment of Prostate cancer

### **INCREASED LEVEL:**

- 1. Prostate cancer
- 2. Benign Prostatic Hyperplasia
- 3. Prostatitis
- 4. Genitourinary infections



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CLIENT CODE.

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

REPORTING DATE



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Test Name Value Unit Biological Reference interval

# CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION

#### **PHYSICAL EXAMINATION**

QUANTITY RECIEVED 10 ml

COLOUR AMBER YELLOW PALE YELLOW

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

TRANSPARANCY CLEAR CLEAR

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

SPECIFIC GRAVITY
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

1.01
1.002 - 1.030

**CHEMICAL EXAMINATION** 

REACTION ALKALINE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

PROTEIN Negative NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

SUGAR 2+ NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY
pH 7.5 5.0 - 7.5

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

BILIRUBIN Negative NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

NITRITE Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.

UROBILINOGEN Normal EU/dL 0.2 - 1.0

KETONE BODIES Negative NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

BLOOD Negative NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

ASCORBIC ACID NEGATIVE (-ve) NEGATIVE (-ve)

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

MICROSCOPIC EXAMINATION

by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

RED BLOOD CELLS (RBCs) NEGATIVE (-ve) /HPF 0 - 3

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Test Name	Value	Unit	Biological Reference interval
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	3-5	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT



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

#### MICROALBUMIN/CREATININE RATIO - RANDOM URINE

MICROALBUMIN: RANDOM URINE by SPECTROPHOTOMETRY	12	mg/L	0 - 25
CREATININE: RANDOM URINE by SPECTROPHOTOMETRY	83.24	mg/dL	20 - 320
MICROALBUMIN/CREATININE RATIO - RANDOM URINE by SPECTROPHOTOMETRY	14.42	mg/g	0 - 30

**INTERPRETATION:-**

PHYSIOLOGICALLY NORMAL:	mg/L	0 - 30
MICROALBUMINURIA:	mg/L	30 - 300
GROSS PROTEINURIA:	mg/L	> 300

- Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction.

  2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure.

  3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.
- 4. Microalbuminuria is the condition when urinary albumin excretion is between 30-300 mg & above this it is called as macroalbuminuria, the
- 4.IVIICTOAIDUMIINUTIA IS THE CONDITION WHEN URINARY AIDUMIN EXCRETION IS between 30-300 mg & above this it is called as macroalbuminuria, the presence of which indicates serious kidney disease.

  5.Microalbuminuria is not only associated with kidney disease but of cardiovascular disease in patients with dibetes & hypertension.

  6.Microalbuminuria reflects vascular damage & appear to be a marker of of early arterial disease & endothelial dysfunction.

  NOTE:- IF A PATIENT HAS = 1+ PROTEINURIA (30 mg/dI OR 300 mg/L) BY URINE DIPSTICK (URINEANALYSIS), OVERT PROTEINURIA IS PRESENT AND TESTING FOR MICROALBUMIN IS INAPPROPIATE. IN SUCH A CASE, URINE PROTEIN:CREATININE RATIO OR 24 HOURS TOTAL URINE MICROPROTEIN IS APPROPIATE.

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



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