

**Dr. Vinay Chopra**  
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 Chairman & Consultant Pathologist

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

|                       |  |                          |                        |
|-----------------------|--|--------------------------|------------------------|
| <b>NAME</b>           | : Mr. DEEPAK HANSRAJ                   | <b>PATIENT ID</b>        | : 1659162              |
| <b>AGE/ GENDER</b>    | : 76 YRS/MALE                          | <b>REG. NO./LAB NO.</b>  | : 012411020060         |
| <b>COLLECTED BY</b>   | :                                      | <b>REGISTRATION DATE</b> | : 02/Nov/2024 05:12 PM |
| <b>REFERRED BY</b>    | :                                      | <b>COLLECTION DATE</b>   | : 02/Nov/2024 05:19PM  |
| <b>BARCODE NO.</b>    | : 01519946                             | <b>REPORTING DATE</b>    | : 02/Nov/2024 07:15PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

### TUMOUR MARKER

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

PROSTATE SPECIFIC ANTIGEN (PSA) - TOTAL: 3.77 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
4. 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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| <b>BARCODE NO.</b>    | : 01519946                             | <b>REPORTING DATE</b>    | : 02/Nov/2024 05:42PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
| <b>CLIENT ADDRESS</b> | : 6349/1, NICHOLSON ROAD, AMBALA CANTT |                          |                        |

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|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

## CLINICAL PATHOLOGY

### URINE ROUTINE & MICROSCOPIC EXAMINATION

#### PHYSICAL EXAMINATION

|   |              |    |               |
|---|--------------|----|---------------|
| QUANTITY RECEIVED   | 10           | ml |               |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |              |    |               |
| COLOUR  | AMBER YELLOW |    | PALE YELLOW   |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |              |    |               |
| TRANSPARANCY  | CLEAR        |    | CLEAR         |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |              |    |               |
| SPECIFIC GRAVITY  | <=1.005      |    | 1.002 - 1.030 |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |              |    |               |

#### CHEMICAL EXAMINATION

|   |                |       |                |
|---|----------------|-------|----------------|
| REACTION  | ACIDIC         |       |                |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| PROTEIN   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| SUGAR   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| pH  | 6.5            |       | 5.0 - 7.5      |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| BILIRUBIN   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| NITRITE   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| UROBILINOGEN  | Normal         | EU/dL | 0.2 - 1.0      |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| KETONE BODIES   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| BLOOD   | Negative       |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |
| ASCORBIC ACID   | NEGATIVE (-ve) |       | NEGATIVE (-ve) |
| <small>by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY</small> |                |       |                |

#### MICROSCOPIC EXAMINATION

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



  
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| Test Name                                     | Value          | Unit | Biological Reference interval |
|---|----------------|------|-------------------------------|
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| PUS CELLS                                     | 0-2            | /HPF | 0 - 5                         |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| EPITHELIAL CELLS                              | 0-1            | /HPF | ABSENT                        |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| CRYSTALS                                      | NEGATIVE (-ve) |      | NEGATIVE (-ve)                |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| CASTS   | NEGATIVE (-ve) |      | NEGATIVE (-ve)                |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| BACTERIA                                      | NEGATIVE (-ve) |      | NEGATIVE (-ve)                |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| OTHERS  | NEGATIVE (-ve) |      | NEGATIVE (-ve)                |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |
| TRICHOMONAS VAGINALIS (PROTOZOA)              | ABSENT         |      | ABSENT                        |
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT |                |      |                               |



  
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| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
|-----------|-------|------|-------------------------------|

### STOOL ROUTINE AND MICROSCOPIC EXAMINATION

#### PHYSICAL EXAMINATION

|                     |          |                     |
|---------------------|----------|---------------------|
| COLOUR / APPEARANCE | BROWNISH | YELLOWISH BROWN     |
| CONSISTENCY         | SOFT     | SEMI- FORMED/FORMED |
| PUS                 | ABSENT   | ABSENT              |
| MUCOUS              | ABSENT   | ABSENT              |
| BLOOD               | Negative | NEGATIVE (-ve)      |
| PARASITES           | NOT SEEN | NOT SEEN            |

#### MICROSCOPIC EXAMINATION

|  |                          |      |          |
|--|--------------------------|------|----------|
| PUS CELLS<br><i>by MICROSCOPY</i>                | Negative                 | /HPF | 0 - 5    |
| RED BLOOD CELLS (RBCs)<br><i>by MICROSCOPY</i>   | NEGATIVE (-ve)           | /HPF | 0 - 3    |
| OVA<br><i>by MICROSCOPY</i>                      | NOT SEEN                 |      | NOT SEEN |
| CYSTS<br><i>by MICROSCOPY</i>                    | NOT SEEN                 |      | NOT SEEN |
| STOOL FOR VIBRIO CHOLERA<br><i>by MICROSCOPY</i> | NO DARTING MOTILITY SEEN |      |          |
| STOOL FOR FAT GLOBULES<br><i>by MICROSCOPY</i>   | NOT SEEN                 |      | NOT SEEN |



  
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| <b>BARCODE NO.</b>    | : 01519946                             | <b>REPORTING DATE</b>    | : 04/Nov/2024 05:32PM  |
| <b>CLIENT CODE.</b>   | : KOS DIAGNOSTIC LAB                   |                          |                        |
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| Test Name | Value | Unit | Biological Reference interval |
|-----------|-------|------|-------------------------------|
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## MICROBIOLOGY

### CULTURE AEROBIC BACTERIA AND ANTIBIOTIC SENSITIVITY: URINE

#### CULTURE AND SUSCEPTIBILITY: URINE

DATE OF SAMPLE 02-11-2024  
 SPECIMEN SOURCE URINE  
 INCUBATION PERIOD 48 HOURS  
*by AUTOMATED BROTH CULTURE*  
 CULTURE STERILE  
*by AUTOMATED BROTH CULTURE*  
 ORGANISM NO AEROBIC PYOGENIC ORGANISM GROWN AFTER 48 HOURS OF  
*by AUTOMATED BROTH CULTURE* INCUBATION AT 37°C

#### AEROBIC SUSCEPTIBILITY: URINE

##### INTERPRETATION:

1. In urine culture and sensitivity, presence of more than 100,000 organism per mL in midstream sample of urine is considered clinically significant. However in symptomatic patients, a smaller number of bacteria (100 to 10000/mL) may signify infection.
2. Colony count of 100 to 10000/ mL indicate infection, if isolate from specimen obtained by suprapubic aspiration or "in-and-out" catheterization or from patients with indwelling catheters.

##### SUSCEPTIBILITY:

1. A test interpreted as **SENSITIVE** implies that infection due to isolate may be appropriately treated with the dosage of an antimicrobial agent recommended for that type of infection and infecting species, unless otherwise indicated..
2. A test interpreted as **INTERMEDIATE** implies that the "infection due to the isolate may be appropriately treated in body sites where the drugs are physiologically concentrated or when a high dosage of drug can be used".
3. A test interpreted as **RESISTANT** implies that the "isolates are not inhibited by the usually achievable concentration of the agents with normal dosage, schedule and/or fall in the range where specific microbial resistance mechanism are likely (e.g. beta-lactamases), and clinical efficacy has not been reliable in treatment studies.

##### CAUTION:

Conditions which can cause a false Negative culture:

1. Patient is on antibiotics. Please repeat culture post therapy.
2. Anaerobic bacterial infection.
3. Fastidious aerobic bacteria which are not able to grow on routine culture media.
4. Besides all these factors, at least in 25-40 % of cases there is no direct correlation between in vivo clinical picture.
5. Renal tuberculosis to be confirmed by AFB studies.

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



  
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