



| Dr. Vinay Chop MD (Pathology & M Chairman & Consult | | crobiology) | | Pathology) |
|---|---|-----------------------|--------------------------|---|
| NAME | : Mrs. POOJA CHHABRA | | | |
| AGE/ GENDER | : 44 YRS/FEMALE | | PATIENT ID | : 1628881 |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012409290023 |
| REFERRED BY | : | | REGISTRATION DATE | : 29/Sep/2024 09:11 AM |
| BARCODE NO. | : 01517935 | | COLLECTION DATE | : 29/Sep/2024 09:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | | : 29/Sep/2024 09:37AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMI | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWA | STHYA WI | ELLNESS PANEL: G | |
| | COL | MPLETE BLO | DOD COUNT (CBC) | |
| RED BLOOD CELLS (RI | BCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (HB) | | 10.5 ^L | gm/dL | 12.0 - 16.0 |
| by CALORIMETRIC RED BLOOD CELL (RBC | | 5.32 ^H | Millions/c | mm 3.50 - 5.00 |
| by HYDRO DYNAMIC F | OCUSING, ELECTRICAL IMPEDENCE | | | |
| PACKED CELL VOLUM | E (PCV) JTOMATED HEMATOLOGY ANALYZER | 34.7 ^L | % | 37.0 - 50.0 |
| MEAN CORPUSCULAR | VOLUME (MCV) | 65.2 ^L | fL | 80.0 - 100.0 |
| | UTOMATED HEMATOLOGY ANALYZER | 19.7 ^L | pg | 27.0 - 34.0 |
| by CALCULATED BY A | JTOMATED HEMATOLOGY ANALYZER | | | |
| | HEMOGLOBIN CONC. (MCHC) | 30.2 ^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUTI | ON WIDTH (RDW-CV) | 17.1 ^H | % | 11.00 - 16.00 |
| RED CELL DISTRIBUTI | | 41.9 | fL | 35.0 - 56.0 |
| | ITOMATED HEMATOLOGY ANALYZER | 12.27 | DATIO | |
| MENTZERS INDEX | | 12.26 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INDEX | <u>K</u> | 20.92 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 |
| by CALCULATED | (110.00) | | | IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CELLS | · · · · | 5500 | | 1000 11000 |
| TOTAL LEUCOCYTE CC by FLOW CYTOMETRY | DUNT (TLC) By SF CUBE & MICROSCOPY | 5530 | /cmm | 4000 - 11000 |
| NUCLEATED RED BLO | OD CELLS (nRBCS) | NIL | | 0.00 - 20.00 |
| by AUTOMATED 6 PAR NUCLEATED RED BLO | THEMATOLOGY ANALYZER | NIL | % | < 10 % |
| by CALCULATED BY AU | ITOMATED HEMATOLOGY ANALYZER | | 70 | |
| DIFFERENTIAL LEUCO | <u>CYTE COUNT (DLC)</u> | | | |
| | | | | |





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mrs. POOJA CHHABRA AGE/ GENDER : 44 YRS/FEMALE **PATIENT ID** :1628881 **COLLECTED BY** : SURJESH :012409290023 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 29/Sep/2024 09:11 AM : **BARCODE NO.** :01517935 **COLLECTION DATE** : 29/Sep/2024 09:14AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 29/Sep/2024 09:37AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 37 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 2 - 12 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 2986 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2046 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 166 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 332 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 150000 - 450000 PLATELET COUNT (PLT) /cmm 451000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.38^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 8 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 73000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 11.0 - 45.0 16.2 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.3 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | | : 29/Sep/2024 02:08PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | | | . 20, 50p/ 2027 02.001 M | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | GLYC | OSYLATED I | HAEMOGLOBIN (HBA1 | C) | |
| GLYCOSYLATED HAEN WHOLE BLOOD | MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) | 6 | % | 4.0 - 6.4 | |
| ESTIMATED AVERAGI | | 125.5 | mg/dL | 60.00 - 140.00 | |
| <u>INTERPRETATION:</u> | AS PER AMERICAN D | NARETES ASSO | | | |
| REFERENCE GROUP | | | GLYCOSYLATED HEMOGLOG | GIB (HBAIC) in % | |
| Non diabetic Adults >= 18 years | | | <5.7 | | |
| | At Risk (Prediabetes) | | 5.7 - 6.4 | | |
| D | iagnosing Diabetes | | >= 6.5 | | |
| | | | Age > 19 Yea | | |
| T 1 | | | als of Therapy: | < 7.0 | |
| Therapeut | ic goals for glycemic control | Acti | ions Suggested: | >8.0 | |
| | | | Age < 19 Year | | |
| | | Gc | oal of therapy: | <7.5 | |

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4. High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference in | nterval |
| | ERYT | HROCYTE SEDIMEN | ITATION RATE (ESF | 8) | |
| | MENTATION RATE (ESR) | 28 ^H | mm/1st h | r 0 - 20 | |
| by RED CELL AGGRE | GATION BY CAPILLARY PHOTOME | TRY | | | |
| | ic test because an elevated resu does not tell the health practiti | | | on associated with infection, cance | r and auto- |
| An ESR can be affe | cted by other conditions beside | s inflammation. For thi | s reason, the ESR is typ | ically used in conjunction with othe | er test such |
| as C-reactive protein 3 This test may also | | vity and response to th | erany in both of the at | oove diseases as well as some othe | rs such as |
| systemic lupus erythe | ematosus | ing and response to th | ierupy in both of the di | sove discuses as well as some other | 13, 5001103 |
| CONDITION WITH LO | | e normal sedimentatio | n of red blood cells su | ich as a high red blood cell count | |
| (polycythaemia), sigr | nificantly high white blood cell of | ount (leucocytosis), a | nd some protein abnor | malities. Some changes in red cell | shape (such |
| as sickle cells in sickl NOTE: | e cell anaemia) also lower the | ESR. | | - | |
| 1. ESR and C - reactiv | e protein (C-RP) are both marke | rs of inflammation. | | | |
| 2. Generally, ESR doe | es not change as rapidly as does by as many other factors as is E | CRP, either at the star | | | |

 CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment of the proteins of the proteins of the processing of the process of the processing of the procesing of the processing of the proc aspirin, cortisone, and quinine may decrease it





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| | : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, | | TING DATE | . 29/ Sep/ 2024 11.43AW |
| CLIENT CODE. CLIENT ADDRESS Test Name | | | Unit | Biological Reference interval |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | Unit | Biological Reference interval |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | Unit IOCHEMISTR | Biological Reference interval |

3. A fasting plasma glucose level of above 125 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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Page 5 of 14





| | MD | | o pra Microbiology) ultant Pathologist | Dr. Yugam MD CEO & Consultant | (Pathology) |
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| Test Name | | | Value | Unit | Biological Reference interval |
| | | | LIPID PROFILE | : BASIC | |
| CHOLESTEROL TOTA | L: SERUM | | 175.49 | mg/dL | OPTIMAL: < 200.0 |
| by CHOLESTEROL OX | IDASE PAP | | | | BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 |
| TRIGLYCERIDES: SER by GLYCEROL PHOSE | | (MATIC) | 151.65 ^H | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROL (| DIRECT) · SERUM | | 48.44 | mg/dL | LOW HDL: < 30.0 |
| by SELECTIVE INHIBITI | | | | <u>g</u> , a. <u>_</u> | BORDERLINE HIGH HDL: 30.0 - |
| | | | | | 60.0 |
| LDL CHOLESTEROL: S | | | 96.72 | mg/dL | HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 |
| by CALCULATED, SPE | | | 70.72 | mg/ dL | ABOVE OPTIMAL: 100.0 - 129.0 |
| | | | | | BORDERLINE HIGH: 130.0 - 159 |
| | | | | | HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTE | ROL: SERUM | | 127.05 | mg/dL | OPTIMAL: < 130.0 |
| by CALCULATED, SPE | | | | | ABOVE OPTIMAL: 130.0 - 159.0 |
| | | | | | BORDERLINE HIGH: 160.0 - 189 |
| | | | | | HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: | SERUM | | 30.33 | mg/dL | 0.00 - 45.00 |
| by CALCULATED, SPE | | | F02 (2 | - | 250.00 700.00 |
| TOTAL LIPIDS: SERUN by CALCULATED, SPE | | | 502.63 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HDL F | | | 3.62 | RATIO | LOW RISK: 3.30 - 4.40 |
| by CALCULATED, SPE | CTROPHOTOMETRY | | | | AVERAGE RISK: 4.50 - 7.0 |
| | | | | | MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |
| LDL/HDL RATIO: SER | UM | | 2 | RATIO | LOW RISK: 0.50 - 3.0 |
| by CALCULATED, SPE | CTROPHOTOMETRY | | | | MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| | | | | | |

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| Test Name | | Value | Unit | Biological Reference interval |
| TRIGLYCERIDES/HDL by CALCULATED, SPE | | 3.13 | RATIO | 3.00 - 5.00 |

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL.

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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| | , | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | LIVE | R FUNCTION | TEST (COMPLETE) | |
| BILIRUBIN TOTAL: SI by DIAZOTIZATION, SF | ERUM PECTROPHOTOMETRY | 0.33 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | CONJUGATED): SERUM | 0.15 | mg/dL | 0.00 - 0.40 |
| | (UNCONJUGATED): SERUM | 0.18 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM | RIDOXAL PHOSPHATE | 14.85 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PY | RIDOXAL PHOSPHATE | 19.54 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SER | UM | 0.76 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHA | | 95.61 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMYL by SZASZ, SPECTROF | TRANSFERASE (GGT): SERUM | 45.15 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SE | RUM | 6.43 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM | | 3.73 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM | | 2.7 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM | | 1.38 | RATIO | 1.00 - 2.00 |

by CALCULATED, SPECTROPHOTOMETRY

<u>INTERPRETATION</u> NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

| DRUG HEPATOTOXICITY | > 2 |
|--------------------------|-------------------------|
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS | 1.4 - 2.0 |
| INTRAHEPATIC CHOLESTATIS | > 1.5 |





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| Test Name | | Value | Unit | Biological Reference interval |
| HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS | | > 1.3 (Slightly Incre | ased) |

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased). **PROGNOSTIC SIGNIFICANCE:**

| NORMAL | < 0.65 |
|----------------------|-----------|
| GOOD PROGNOSTIC SIGN | 0.3 - 0.6 |
| POOR PROGNOSTIC SIGN | 1.2 - 1.6 |

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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







| Dr. Vinay C MD (Pathology Chairman & Co | | | | (Pathology) |
|---|---------------------------|--------------|--------------------------|-------------------------------|
| NAME | : Mrs. POOJA CHHABRA | | | |
| AGE/ GENDER | : 44 YRS/FEMALE | | PATIENT ID | : 1628881 |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012409290023 |
| REFERRED BY | : | | REGISTRATION DATE | : 29/Sep/2024 09:11 AM |
| BARCODE NO. | : 01517935 | | COLLECTION DATE | : 29/Sep/2024 09:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 29/Sep/2024 11:49AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | кі | DNEY FUNCTIO | N TEST (COMPLETE) | |
| UREA: SERUM | | 19.6 | mg/dL | 10.00 - 50.00 |
| - | MATE DEHYDROGENASE (GLDH) | | | |
| CREATININE: SERUN | N CTROPHOTOMETERY | 0.88 | mg/dL | 0.40 - 1.20 |
| BLOOD UREA NITRO | DGEN (BUN): SERUM | 9.16 | mg/dL | 7.0 - 25.0 |
| - | | 10 /1 | DATIO | 10.0.00.0 |
| ratio: serum | DGEN (BUN)/CREATININE | 10.41 | RATIO | 10.0 - 20.0 |
| | ECTROPHOTOMETRY | | | |
| UREA/CREATININE I | | 22.27 | RATIO | |
| URIC ACID: SERUM | ECTROPHOTOMETRY | 3.54 | mg/dL | 2.50 - 6.80 |
| by URICASE - OXIDAS | SE PEROXIDASE | | | |
| CALCIUM: SERUM | ECTROPHOTOMETRY | 8.87 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SEF | | 3.35 | mg/dL | 2.30 - 4.70 |
| - | DATE, SPECTROPHOTOMETRY | | 3 | |
| ELECTROLYTES | | | | |
| SODIUM: SERUM by ise (ION SELECTIN | VE ELECTRODE) | 142.5 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUN | | 4.31 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIV | | | | |
| CHLORIDE: SERUM by ISE (ION SELECTIN | /F FI FCTRODF) | 106.88 | mmol/L | 90.0 - 110.0 |
| | RULAR FILTERATION RATE | | | |
| | RULAR FILTERATION RATE | 83.1 | | |
| (eGFR): SERUM | | | | |
| by CALCULATED | | | | |

INTERPRETATION:

To differentiate between pre- and post renal 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.

2. Catabolic states with increased tissue breakdown.



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







| Dr. Vinay Chopra MD (Ratrobology: Charman & Consultant Pathology) Dr. Yugam Chopra MD (Rathology) CEO & Consultant Pathology) NAME :: Mrs. POOJA CHHABRA AGE/ GENDER :: 44 YRS/FEMALE PATIENT ID :: 1628881 COLLECTED BY :: SURJESI REG. NO./LAB NO. :: 012409290023 REFERRED BY : REGISTRATION DATE : 29/Sep/2024 09:11 AM BARCODE NO. :: 01517935 COLLECTION DATE : 29/Sep/2024 09:14 AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 09:14 AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 09:14 AM CLIENT ADDRESS : 6349/1. NICHOLSON ROAD. AMBALA CANTT : Impaired renal function plus 5. Crease production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). : 9. Unite readornin Itake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). : 9. Unite readornin (EUM rises disproportionately more than creatinine) (e.g. obstructive uropathy). : 9. Certain drugs (e.g. letracycline glucocorticods) : INCREASED RATIO (C-1) WITH ELEVARED CREATININE LEVEL | | | | | | |
|---|---|--|---|------------------------|--|--------------------------|
| AGE/ GENDER : 44 YRS/FEMALE PATTENT ID : 1628881 COLLECTED BY : SURJESH REG. NO./LAB NO. : 012409290023 REFERRED BY : REGISTRATION DATE : 29/Sep/2024 09:11 AM BARCODE NO. : 01517935 COLLECTION DATE : 29/Sep/2024 09:14 AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 09:14 AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval 3. GI haemorrhage. . . Biological Reference interval 3. GI haemorrhage. . . Biological Reference interval 5. Impaired renal function plus . . Biological Reference interval 6. Stexes protein intake. 7. Urine reabsorption (e.g., ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetrscyline, gluccoorticoldS) Incurs urgery, cachexia, high frey(-). 1. Dostrenal azotemia | | MD (Pathology & N | Microbiology) | MD | (Pathology) | |
| AGE/ GENDER : 44 YRS/FEMALE PATIENT ID : 1628881 COLLECTED BY : SURJESH REG. NO./LAB NO. : 012409290023 REFERRED BY : REGISTRATION DATE : 29/Sep/2024 09:11 AM BARCODE NO. : 01517935 COLLECTION DATE : 29/Sep/2024 09:14 AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 09:14 AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Image: Content of the conten | NAME | : Mrs. POOJA CHHABRA | | | | |
| COLLECTED BY SURJESH REG. NO./LAB NO. : 012409290023 REFERRED BY : REGISTRATION DATE : 29/Sep/2024 09:11 AM BARCODE NO. : 01517935 COLLECTION DATE : 29/Sep/2024 09:14 AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 01:149AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT . . Test Name Value Unit Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burs, surgery, cachexia, high fever). . . 7. Urine reabsorption (e.g., ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) . . . 8. Reduced muscle mass (subnormal creatinine production) 9. Ortatin drugs (e.g., tetracycline, glucocorticolds) 1. Acute tubular necrosis. 1. Acute tubular necrosis. </th <th></th> <th></th> <th>PATIEN</th> <th>т ір</th> <th>· 1628881</th> <th></th> | | | PATIEN | т ір | · 1628881 | |
| REFERRED BY :: REGISTRATION DATE : 29/Sep/2024 09:11 AM BARCODE NO. : 01517935 COLLECTION DATE : 29/Sep/2024 09:14 AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 29/Sep/2024 11:49AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 80/Sep/2024 11:49AM Test Name Value Unit Biological Reference interval 3. GI haemorrhage. : : Hiph protein intake. : Supprotein intake. 5. Impaired renal function plus : Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g., uretracycline, glucocorticoids) : Reduced muscle mass (subnormal creatinine production) 8. Reduced RUIO (: Autoprotein intake. : Supprotein intake. 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). : Premai azotemia superimposed on renal disease. PECREASED RUIO (: Autoprotein intake or synthesis. : Autoprotein intake or synthesis. 1. Acute tubular necrosis. : Autoprotein intake or synthesis. : Autoprotein intake or synthesis. 9. Cherchard Ruio (: Autoprotein intake or synthesis. : Autoprotein intake ore | | | | | | |
| BARCODE NO. 101517935 COLLECTION DATE 29/Sep/2024 09:14AM CLIENT CODE KOS DIAGNOSTIC LAB REPORTING DATE 29/Sep/2024 11:49AM CLIENT ADDRESS 6349/1, NICHOLSON ROAD, AMBALA CANTT Image: 1000 (| | : SURJESH | | | | |
| CLEENT CODE: KOS DIACNOSTIC LAB REPORTING DATE : 29/Sep/2024 11:49AM CLEENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Image: 20/Sep/2024 11:49AM ILENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval 3. GI haemorrhage. . High protein intake. 5. Impaired renal function plus . . 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). . 0. Urine reabsorption (e.g. ureter colostomy) . . 8. Reduced muscle mass (subnormal creatinine production) . . 9. Certain drugs (e.g. tetracycline, glucocorticoids) . . INCREASED RATIO (<20:1) WITH ELEVATED CREATININE LEVELS: . . 1. Obstrenal azotemia superimoposed on renal disease. . . DECREASED RATIO (<10:1) WITH DECREASED BUN : . . 1. Acute tubular necrosis. . . . 2. Ow protein diet and starvation. . . . 3. Severe liver disease. . . . 3. Subul (syndrome of inappropiate antidiuretic harmone) due to tubular | REFERRED BY | : | REGIST | RATION DATE | : 29/Sep/2024 09:11 | 1 AM |
| CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Image: Image: Image: 3. Gl haemorrhage. Image: Image: 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, Gl bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (20:1) WITH ELEVATED CREATININE LEVELS: 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. Aute 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. Prepnancy. ECREASED RATIO (-10:1) WITH INCREASED CREATINNEL DeCREASED RATIO (<10:1) WITH INCREASED CREATINNEL 1. Aute tubular necrosi. 1. Inherited hyperammonemias (urea is virtually absent in | BARCODE NO. | : 01517935 | COLLEC | TION DATE | : 29/Sep/2024 09:14 | 4AM |
| Test Name Value Unit Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATINNE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Porenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 3. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 4. Aute tubular necrosis. 4. Other causes of decreased urea synthesis. 5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). | CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPOR | FING DATE | : 29/Sep/2024 11:49 | 9AM |
| GI haemorrhage. High protein intake. Impaired renal function plus Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (subnormal creatinine production) Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (<20:1) WITH ELEVATED CREATININE LEVELS: Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN : Acute tubular necrosis. Low protein diet and starvation. Severe liver disease. Other causes of decreased urea synthesis. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid). Independent dispropriate antidiuretic harmone) due to tubular secretion of urea. Pregnancy. DECREASED RATIO (<10:1) WITH INCREASED CREATININE: Phenacimide therapy (accelerates conversion of creatine to creatinine). Rhabdomyolysis (releases muscle creatinine). Rhabdomyolysis (releases muscle creatinine). Rhabdomyolysis (releases muscle creatinine). Muscular patients who develop renal failure. IMAPPROPIATE RATIO: | CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | | |
| 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (-20-1) WITH LEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal 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 (| Test Name | | Value | Unit | Biological | Reference interval |
| should produce an increased BUN/creatinine ratio). 2. Cephalosporin therapy (interferes with creatinine measurement). ESTIMATED GLOMERULAR FILTERATION RATE: CKD STAGE DESCRIPTION GFR (mL/min/1.73m2) ASSOCIATED FINDINGS G1 Normal kidney function >90 No proteinuria G2 Kidney damage with normal or high GFR >90 Presence of Protein , Albumin or cast in urine G3a Mild decrease in GFR 60 -89 60 -89 | Postrenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet al 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the ESTIMATED GLOMERT CKD STAGE | a (BUN rises disproportionately mo superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffus monemias (urea is virtually absen of inappropiate antidiuretic harmo 10:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false incr creased BUN/creatinine ratio). rapy (interferes with creatinine me JLAR FILTERATION RATE: | es out of extracellular fl t in blood). ne) due to tubular secre : tine to creatinine). rease in creatinine with o easurement). | uid). tion of urea. | | I ratio when dehydration |
| | G2 | Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFF | 201 >90 1 >90 R 60 -89 | Pr | No proteinuria resence of Protein , | |

G5

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

Kidney failure

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

<15







| | Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa | logy) ME | n Chopra D (Pathology) It Pathologist |
|----------------|--|--------------------------|---|
| NAME | : Mrs. POOJA CHHABRA | | |
| AGE/ GENDER | : 44 YRS/FEMALE | PATIENT ID | : 1628881 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012409290023 |
| REFERRED BY | : | REGISTRATION DATE | : 29/Sep/2024 09:11 AM |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA | CANTT | |
| Test Name | Val | ue Unit | Biological Reference interval |

COMMENTS:

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.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 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 of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 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 fulfill 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



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







| | Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path | | Dr. Yugam MD & Consultant | (Pathology) | |
|---|--|---|---------------------------------|-------------------------------|--|
| NAME : Mrs. POO | JA CHHABRA | | | | |
| AGE/ GENDER : 44 YRS/FR | EMALE | PATIENT II |) | : 1628881 | |
| COLLECTED BY : SURJESH | | REG. NO./LAB NO. : 012409290023 | | | |
| REFERRED BY : | | REGISTRATION DATE : 29/Sep/2024 09:11 AM | | | |
| BARCODE NO. : 01517935 | j | - | | : 29/Sep/2024 09:14AM | |
| | NOSTIC LAB | REPORTING | G DATE | : 29/Sep/2024 10:50AM | |
| CLIENT ADDRESS : 6349/1, N | NICHOLSON ROAD, AMBALA C | ANTT | | | |
| Test Name | Valu | le | Unit | Biological Reference interval | |
| | | | | 5 | |
| | CLIN | ICAL PATHOLC | GY | | |
| | URINE ROUTINE & | | EXAMINAT | TION | |
| PHYSICAL EXAMINATION | | | | | |
| QUANTITY RECIEVED | 10 | | ml | | |
| by DIP STICK/REFLECTANCE SPECT | | | | | |
| COLOUR by DIP STICK/REFLECTANCE SPECTI | | BER YELLOW | | PALE YELLOW | |
| TRANSPARANCY | HAZ | Y | | CLEAR | |
| by DIP STICK/REFLECTANCE SPECTI SPECIFIC GRAVITY | ROPHOTOMETRY 1.01 | | | 1.002 - 1.030 | |
| by DIP STICK/REFLECTANCE SPECTI | | | | 1.002 - 1.030 | |
| CHEMICAL EXAMINATION | | | | | |
| REACTION | ACIE | DIC | | | |
| by DIP STICK/REFLECTANCE SPECTI PROTEIN | | ative | | NEGATIVE (-ve) | |
| by DIP STICK/REFLECTANCE SPECT | ROPHOTOMETRY | | | | |
| SUGAR by DIP STICK/REFLECTANCE SPECTI | | ative | | NEGATIVE (-ve) | |
| pH | 5.5 | | | 5.0 - 7.5 | |
| by DIP STICK/REFLECTANCE SPECTI | | | | | |
| BILIRUBIN by DIP STICK/REFLECTANCE SPECTI | | ative | | NEGATIVE (-ve) | |
| NITRITE | Neg | ative | | NEGATIVE (-ve) | |
| by DIP STICK/REFLECTANCE SPECTI UROBILINOGEN | rophotometry. Nori | mal | EU/dL | 0.2 - 1.0 | |
| by DIP STICK/REFLECTANCE SPECTI | | mar | LU/UL | | |
| KETONE BODIES by DIP STICK/REFLECTANCE SPECTI | | ative | | NEGATIVE (-ve) | |
| BLOOD | | ative | | NEGATIVE (-ve) | |
| by DIP STICK/REFLECTANCE SPECTI | ROPHOTOMETRY | | | | |
| ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTI | | GATIVE (-ve) | | NEGATIVE (-ve) | |

MICROSCOPIC EXAMINATION



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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

Page 13 of 14





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

| NAME | : Mrs. POOJA CHHABRA | | | | | |
|---|--|--------------------------------|----------|------------------------------------|--------------------|---|
| AGE/ GENDER: 44 YRS/FEMALECOLLECTED BY: SURJESH | | PATIENT ID REG. NO./LAB NO. | | : 1628881 : 012409290023 | | |
| | | | | | REFERRED BY | : |
| BARCODE NO. | : 01517935 | COLLECT | ION DATE | | | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORT | ING DATE | | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | | | | | |
| | | | | | | |
| Test Name | | Value | Unit | Biological Reference interval | | |
| RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | NEGATIVE (-ve) | /HPF | 0 - 3 | | |
| PUS CELLS by MICROSCOPY ON (| CENTRIFUGED URINARY SEDIMENT | 12-15 | /HPF | 0 - 5 | | |
| EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | 6-8 | /HPF | ABSENT | | |
| CDVSTALS | | NECATIVE (NO) | | | | |

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 NEGATIVE (-ve) NEGATIVE (-ve) OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

ABSENT

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***





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

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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 care@koshealthcare.com
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ABSENT