



| SO 9001 : 2008 CERTI | FIED LAB | | EXCELLENCE IN HEALTHCARE & | DIAGNOSTICS | |
|--------------------------------------|---|-------------------|---------------------------------------|--|-------------|
| | Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar | obiology) | | Pathology) | |
| NAME | : Mr. I.K JAIN | | | | |
| AGE/ GENDER | : 79 YRS/MALE | | PATIENT ID | : 1783221 | |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012503080042 | |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AMBA) | LA CANTT) | REGISTRATION DATE | : 08/Mar/2025 10:56 AM | |
| BARCODE NO. | :01526713 | | COLLECTION DATE | :08/Mar/2025 11:08AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | :08/Mar/2025 11:23AM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMB | ALA CANTI | | | |
| | | | | | |
| Test Name | | Value | Unit | Biological Referen | ce interval |
| | | | CLLNESS PANEL: 1.0 OOD COUNT (CBC) | | |
| BED BLOOD CELLS | (RBCS) COUNT AND INDICES | | | | |
| HAEMOGLOBIN (HE | | 11.1 ^L | gm/dL | 12.0 - 17.0 | |
| RED BLOOD CELL (I | RBC) COUNT | 4.1 | Millions/o | cmm 3.50 - 5.00 | |
| PACKED CELL VOLU | | 35.4 ^L | % | 40.0 - 54.0 | |
| MEAN CORPUSCULA | AR VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER | 86.3 | fL | 80.0 - 100.0 | |
| | AR HAEMOGLOBIN (MCH) JTOMATED HEMATOLOGY ANALYZER | 27.1 | pg | 27.0 - 34.0 | |
| | AR HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER | 31.5 ^L | g/dL | 32.0 - 36.0 | |
| | JTION WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER | 13.7 | % | 11.00 - 16.00 | |
| | JTION WIDTH (RDW-SD) JTOMATED HEMATOLOGY ANALYZER | 44.3 | fL | 35.0 - 56.0 | |
| MENTZERS INDEX by CALCULATED | | 21.05 | RATIO | BETA THALASSEN 13.0 IRON DEFICIENCY >13.0 | |
| GREEN & KING IND by CALCULATED | EX | 28.87 | RATIO | BETA THALASSEN 65.0 IRON DEFICIENCY 65.0 | |
| WHITE BLOOD CEI | LS (WBCS) | | | | |
| TOTAL LEUCOCYTE by FLOW CYTOMETRY | COUNT (TLC) by sf cube & microscopy | 8940 | /cmm | 4000 - 11000 | |
| by AUTOMATED 6 PAR | LOOD CELLS (nRBCS) t hematology analyzer | NIL | | 0.00 - 20.00 | |
| | LOOD CELLS (nRBCS) % JTOMATED HEMATOLOGY ANALYZER | NIL | % | < 10 % | |



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** : Mr. I.K JAIN NAME AGE/ GENDER : 79 YRS/MALE **PATIENT ID** :1783221 **COLLECTED BY** : SURJESH :012503080042 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :08/Mar/2025 10:56 AM **BARCODE NO.** :01526713 **COLLECTION DATE** :08/Mar/2025 11:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Mar/2025 11:23AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 55 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 31 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 10 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4917 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2771 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 358 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 894^H /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0.0 - 999.00 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 253000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.31 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 109000^H /cmm 30000 - 90000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 43.2% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.1% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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







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

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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| LIENT CODE. | : KOS DIAGNOSTIC LA | В | REPORTING DATE | :08/Mar/2025 11:39AM |
| LIENT ADDRESS | : 6349/1, NICHOLSON | I ROAD, AMBALA CANTT | | |
| Fest Name | | Value | Unit | Biological Reference interval |
| | E | RYTHROCYTE SEDI | MENTATION RATE (| ESR) |
| RYTHROCYTE SEI | DIMENTATION RATE (| | mm/1st | |
| An ESR can be affe | cted by other conditions | besides inflammation. F | or this reason, the ESR is ty | e body or what is causing it. pically used in conjunction with other test such |
| . This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be see polycythaemia), sigr s sickle cells in sickl IOTE: . ESR and C - reactiv . Generally, ESR doe | be used to monitor dise ematosus W ESR n with conditions that ir nificantly high white bloc e cell anaemia) also low e protein (C-RP) are both es not change as rapidly a | hibit the normal sedimer od cell count (leucocytosi ver the ESR. n markers of inflammation as does CRP, either at the | ntation of red blood cells, s s) , and some protein abno n. • start of inflammation or a | bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves. |
| ystemic lupus eryth CONDITION WITH LO' A low ESR can be see polycythaemia), sigr is sickle cells in sickl NOTE: . ESR and C - reactiv C. Generally, ESR doe CRP is not affected . If the ESR is elevat Women tend to ha . Drugs such as dext | be used to monitor dise ematosus W ESR n with conditions that ir nificantly high white bloc e cell anaemia) also low e protein (C-RP) are both es not change as rapidly a by as many other factor ed, it is typically a result ye a higher ESR, and me | hibit the normal sedimen od cell count (leucocytosi er the ESR. markers of inflammation as does CRP, either at the s as is ESR, making it a be of two types of proteins, nstruation and pregnancy pontraceptives, penicillam | ntation of red blood cells, s s) , and some protein abno n. start of inflammation or a: tter marker of inflammatior globulins or fibrinogen. can cause temporary eleva | uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves. 1. |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROA | D, AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | CLIN | ICAL CHEMIST | RY/BIOCHEMIST | 'RY |
| | | GLUCOSE I | FASTING (F) | |
| GLUCOSE FASTING by GLUCOSE OXIDAS | ; (F): PLASMA e - peroxidase (god-pod) | 210.45 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 |

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 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.



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| Test Name | | Value | Unit | Biological Reference interval |
| | | | OFILE : BASIC | |
| CHOLESTEROL TOT by CHOLESTEROL OXI | | 87.03 | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| FRIGLYCERIDES: SE by GLYCEROL PHOSPH | CRUM HATE OXIDASE (ENZYMATIC) | 113.88 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROL by SELECTIVE INHIBITION | | 32.7 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROL by CALCULATED, SPEC | | 31.55 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 |
| NON HDL CHOLEST by Calculated, spec | | 54.33 | mg/dL | OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTERO | | 22.78 | mg/dL | 0.00 - 45.00 |
| FOTAL LIPIDS: SER | UΜ | 287.94 ^L | mg/dL | 350.00 - 700.00 |
| by CALCULATED, OF EC | L RATIO: SERUM | 2.66 | RATIO | LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | , AMBALA CANTT | 2 | |
| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S by Calculated, spe | | 0.96 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H | IDL RATIO: SERUM | 3.48 | 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.

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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Dr. Vinay Chopra

| Test Name | Value | Unit | Biological Reference interval |
|--|-------------------|---------------|---|
| LIVER | FUNCTION TE | ST (COMPLETE) | |
| BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry | 0.3 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY | 0.09 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY | 0.21 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 24.5 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 21.7 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 1.13 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL | 112.68 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY | 27.58 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY | 5.76 ^L | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL GREEN | 3.96 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY | 1.8 ^L | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 2.2 ^H | RATIO | 1.00 - 2.00 |

INTERPRETATION

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 |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |





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| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012503080042 |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AMBALA CANTT) | REGISTRATION DATE | : 08/Mar/2025 10:56 AM |
| BARCODE NO. | : 01526713 | COLLECTION DATE | :08/Mar/202511:08AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 08/Mar/2025 12:39PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANTT | ſ | |
| Test Name | Value | Unit | Biological Reference interval |

DECREASED:

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 |
| | · |



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| Dr. Vinay Ch MD (Pathology & Chairman & Con | | | | Pathology) | |
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| REFERRED BY | FERRED BY : CENTRAL PHOENIX CLUB (AMBALA (| | REGISTRATION DATE | : 08/Mar/2025 10:56 AM : 08/Mar/2025 11:08AM : 08/Mar/2025 01:24PM | |
| BARCODE NO. | :01526713 | Collection Date | | | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | KIDN | EY FUNCTIO | N TEST (COMPLETE) | | |
| UREA: SERUM | IATE DEHYDROGENASE (GLDH) | 40.87 | mg/dL | 10.00 - 50.00 | |
| CREATININE: SERU | UM | 1.58 ^H | mg/dL | 0.40 - 1.40 | |
| BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY | | 19.1 | mg/dL | 7.0 - 25.0 | |
| BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE | ROGEN (BUN)/CREATININE | 12.09 | RATIO | 10.0 - 20.0 | |
| UREA/CREATININ | | 25.87 | RATIO | | |
| URIC ACID: SERUM by URICASE - OXIDAS | | 7.44 | mg/dL | 3.60 - 7.70 | |
| CALCIUM: SERUM by ARSENAZO III, SPE | CTROPHOTOMETRY | 9.15 | mg/dL | 8.50 - 10.60 | |
| PHOSPHOROUS: SE by PHOSPHOMOLYBE | ERUM DATE, SPECTROPHOTOMETRY | 3.21 | mg/dL | 2.30 - 4.70 | |
| ELECTROLYTES | | | | | |
| SODIUM: SERUM by ISE (ION SELECTIV | 'E ELECTRODE) | 138.6 | mmol/L | 135.0 - 150.0 | |
| POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | | 5.58 ^H | mmol/L | 3.50 - 5.00 | |
| CHLORIDE: SERUM | | 103.95 | mmol/L | 90.0 - 110.0 | |
| ESTIMATED CLON | στα παραγματικά παραγματικά παραγματία παραγματία παραγματία παραγματία παραγματία παραγματία παραγματία παραγμ | | | | |

ESTIMATED GLOMERULAR FILTERATION RATE

ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM

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.

44.2

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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Page 10 of 14

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| | Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan | obiology) | Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist | |
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| AGE/ GENDER | : 79 YRS/MALE | PATIENT ID | : 1783221 | |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | :01250308004 | 2 |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AMBAI | A CANTT) REGISTRATION DA | TE : 08/Mar/2025 1 | 0:56 AM |
| BARCODE NO. | :01526713 | COLLECTION DATE | | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 08/Mar/2025 0 | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBA | | . 00/ 1141/ 2020 0 | 1.6 11 111 |
| | . 03407 1, MCHOLSON ROAD, AMD | | | |
| Test Name | | Value Unit | t Biologi | cal Reference interval |
| 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia | xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine production tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVE (BUN rises disproportionately more t superimposed on renal disease. | LS: | uropathy). | |
| Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (<1 Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. DECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin ther | (e.g. ureter colostomy) ass (subnormal creatinine production tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVE (BUN rises disproportionately more t superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses o monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increase creased BUN/creatinine ratio). apy (interferes with creatinine measur ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with | LS: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea. to creatinine). | nodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein , | |
| 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL G1 G2 G3a | (e.g. ureter colostomy) ass (subnormal creatinine production tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVE (BUN rises disproportionately more t superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses o monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increased creased BUN/creatinine ratio). apy (interferes with creatinine measur LAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR Mild decrease in GFR | LS: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea. to creatinine). e in creatinine with certain meth rement). GFR (mL/min/1.73m2) >90 >90 60 - 89 | iodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria | |
| 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL CKD STAGE G1 G2 | (e.g. ureter colostomy) ass (subnormal creatinine production tetracycline, glucocorticoids) 0:1) WITH ELEVATED CREATININE LEVE (BUN rises disproportionately more t superimposed on renal disease. 0:1) WITH DECREASED BUN : osis. d starvation. 2. creased urea synthesis. urea rather than creatinine diffuses o monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 0:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false increase creased BUN/creatinine ratio). apy (interferes with creatinine measur ULAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR | LS: han creatinine) (e.g. obstructive ut of extracellular fluid). blood). due to tubular secretion of urea. to creatinine). e in creatinine with certain meth rement). GFR (mL/min/1.73m2) >90 >90 | nodologies,resulting in nor ASSOCIATED FINDINGS No proteinuria Presence of Protein , | |





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| Test Name | Value | 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 Dr. Vinay Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. I.K JAIN AGE/ GENDER : 79 YRS/MALE **PATIENT ID** :1783221 **COLLECTED BY** : SURJESH :012503080042 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :08/Mar/2025 10:56 AM **BARCODE NO.** :01526713 **COLLECTION DATE** :08/Mar/2025 11:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :08/Mar/2025 12:06PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name **CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION PHYSICAL EXAMINATION** QUANTITY RECIEVED 10 ml by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PALE YELLOW PALE YELLOW COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY TRANSPARANCY HAZY CLEAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY 1.02 1.002 - 1.030 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **CHEMICAL EXAMINATION** ACIDIC REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN 2+ **NEGATIVE (-ve)** by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pН <=5.0 5.0 - 7.5 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NEGATIVE (-ve) NITRITE Negative by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN Normal EU/dL 0.2 - 1.0 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **KETONE BODIES** NEGATIVE (-ve) Negative by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD NEGATIVE (-ve) Negative by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY ASCORBIC ACID NEGATIVE (-ve) NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **MICROSCOPIC EXAMINATION** /HPF 0 - 3 RED BLOOD CELLS (RBCs) NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT



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| | | | |
| Test Name | Value | Unit | Biological Reference interval |
| PUS CELLS | 3-4 | /HPF | 0 - 5 |

| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | | |
|---|----------------|------|----------------|
| EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 1-3 | /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 |

*** End Of Report ***



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