

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar | obiology) | | (Pathology) |
|--------------------------------------|---|-----------|--------------------------|--|
| NAME | : Mrs. SHARDA | | | |
| AGE/ GENDER | : 32 YRS/FEMALE | | PATIENT ID | : 1749641 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012502080028 |
| REFERRED BY | : | | REGISTRATION DATE | : 08/Feb/2025 11:29 AM |
| BARCODE NO. | : 01525148 | | COLLECTION DATE | :08/Feb/202511:32AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 08/Feb/2025 12:35PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBA | ALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | LLNESS PANEL: 1.2 | 2 |
| | | PLETE BL | OOD COUNT (CBC) | |
| | S (RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (H) by CALORIMETRIC | B) | 13.6 | gm/dL | 12.0 - 16.0 |
| RED BLOOD CELL (| RBC) COUNT | 4.6 | Millions/ | cmm 3.50 - 5.00 |
| PACKED CELL VOLU | JME (PCV) utomated hematology analyzer | 41.1 | % | 37.0 - 50.0 |
| MEAN CORPUSCUL | | 89.3 | fL | 80.0 - 100.0 |
| MEAN CORPUSCUL | AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER | 29.5 | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER | 33 | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIB | UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER | 14 | % | 11.00 - 16.00 |
| RED CELL DISTRIB | UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER | 46.9 | fL | 35.0 - 56.0 |
| MENTZERS INDEX | | 19.41 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING IND | | 27.12 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CE | | 0000 | | 1000 11000 |
| TOTAL LEUCOCYTE by FLOW CYTOMETRY | COUNT (TLC) / by sf cube & microscopy | 8960 | /cmm | 4000 - 11000 |
| NUCLEATED RED B | LOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER | NIL | | 0.00 - 20.00 |
| NUCLEATED RED B | LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER | NIL | % | < 10 % |
| by CALCULATED BY A | UTOMATED HEMATOLOGY ANALYZER | | | |





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

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 0171-2643898, +91 99910 43898
 care@koshealthcare.com

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

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

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| | | | |

| Test Name | Value | Unit | Biological Reference interval |
|--|---------------------|------|--------------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS | 64 | % | 50 - 70 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 2.2 | 04 | 22.12 |
| LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 28 | % | 20 - 40 |
| EOSINOPHILS | 3 | % | 1 - 6 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | | | 1.0 |
| MONOCYTES | 5 | % | 2 - 12 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 0 | % | 0 1 |
| BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 0 | % | 0 - 1 |
| ABSOLUTE LEUKOCYTES (WBC) COUNT | | | |
| ABSOLUTE NEUTROPHIL COUNT | 5734 | /cmm | 2000 - 7500 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 0.01 | , | |
| ABSOLUTE LYMPHOCYTE COUNT | 2509 | /cmm | 800 - 4900 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT | 900 | / | 10 110 |
| ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 269 | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT | 448 | /cmm | 80 - 880 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | | | |
| PLATELETS AND OTHER PLATELET PREDICTIVE | MARKERS. | | |
| PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence | 144000 ^L | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) by Hydro Dynamic Focusing, Electrical Impedence | 0.22 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) | 15 ^H | fL | 6.50 - 12.0 |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | | | |
| PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence | 86000 | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) | 60.1 ^H | % | 11.0 - 45.0 |
| by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 10.4 | 0/ | 15.0 17.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence | 16.4 | % | 15.0 - 17.0 |
| NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | | | |
| | | | |



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| | MD | | opraDr. Yugam ChopraMicrobiology)MD (Pathology)sultant PathologistCEO & Consultant Pathologist | | |
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| CLIENT CODE. | : KOS DIAGNOSTI | C LAB | R | EPORTING DATE | : 08/Feb/2025 12:58PM |
| LIENT ADDRESS | : 6349/1, NICHOI | SON ROAD, A | AMBALA CANTT | | |
| Fest Name | | _ | Value | TT \$4 | |
| NTERPRETATION: 1. ESR is a non-specif mmune disease, but 2. An ESR can be affe as C-reactive protein | GATION BY CAPILLAR) ic test because an e does not tell the he cted by other condit | TE (ESR) Y PHOTOMETR' levated result alth practition tions besides | OCYTE SEDIM 3 Y t often indicates th ner exactly where t inflammation. For | the inflammation is in the this reason, the ESR is ty | |





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| | | Chopra y & Microbiology) Consultant Pathologist | Dr. Yugam (MD (P CEO & Consultant Pa | athology) |
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| Test Name | | Value | Unit | Biological Reference interval |
| | CLIN | ICAL CHEMISTRY | BIOCHEMISTR | Y |
| | | GLUCOSE FAST | TING (F) | |
| GLUCOSE FASTING | F (F): PLASMA E - PEROXIDASE (GOD-POD) | 113.08 ^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 |
| | | LIPID PROFI | F · BASIC | |
| CHOLESTEROL TOT | | | | OPTIMAL: < 200.0 |
| by CHOLESTEROL TO | | 122.96 | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| TRIGLYCERIDES: SI by GLYCEROL PHOSP | ERUM HATE OXIDASE (ENZYMATIC) | 178.21 ^H | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 |
| | | | | VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROI | | 43.13 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROI by CALCULATED, SPE | | 44.19 | 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, spe | | 79.83 | 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 CHOLESTERC | | 35.64 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SER by CALCULATED, SPE | UM | 424.13 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HD by CALCULATED, SPE | L RATIO: SERUM | 2.85 | 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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| Test Name | | Value | Unit | Biological Reference interval | |
| LDL/HDL RATIO: S by Calculated, spe | | 1.02 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 | |
| TRIGLYCERIDES/HDL RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | | 4.13 | 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.

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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Unit

Dr. Yugam Chopra MD (Pathology)

:1749641

:012502080028

:08/Feb/2025 11:29 AM

:08/Feb/202511:32AM

:08/Feb/202502:25PM

Biological Reference interval

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. SHARDA AGE/ GENDER : 32 YRS/FEMALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE BARCODE NO.** :01525148 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value

LIVER FUNCTION TEST (COMPLETE) BILIRUBIN TOTAL: SERUM mg/dL INFANT: 0.20 - 8.00 1.54^H by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.28 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 1.26^H mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY 34.27.00 - 45.00 SGOT/AST: SERUM U/L by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM U/L 0.00 - 49.00 50.5^H by IFCC, WITHOUT PYRIDOXAL PHOSPHATE AST/ALT RATIO: SERUM 0.68 RATIO 0.00 - 46.00 by CALCULATED, SPECTROPHOTOMETRY ALKALINE PHOSPHATASE: SERUM 107.01 U/L 40.0 - 130.0 by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 39.61 U/L 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 8.02^H gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.43gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN 2.30 - 3.50 **GLOBULIN: SERUM** gm/dL 3.59^H by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.23 RATIO 1.00 - 2.00 by CALCULATED, SPECTROPHOTOMETRY

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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NAME

Test Name





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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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| Test Name | | Value | Unit | Biological Reference interval |
| | KIDN | EY FUNCTION 7 | FEST (COMPLETE) | |
| UREA: SERUM by UREASE - GLUTAM | IATE DEHYDROGENASE (GLDH) | 15.75 | mg/dL | 10.00 - 50.00 |
| CREATININE: SERU | JM | 0.84 | mg/dL | 0.40 - 1.20 |
| | OGEN (BUN): SERUM | 7.36 | mg/dL | 7.0 - 25.0 |
| BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE | COGEN (BUN)/CREATININE | 8.76 ^L | RATIO | 10.0 - 20.0 |
| UREA/CREATININ | E RATIO: SERUM | 18.75 | RATIO | |
| URIC ACID: SERUM by URICASE - OXIDAS | | 2.82 | mg/dL | 2.50 - 6.80 |
| CALCIUM: SERUM by ARSENAZO III, SPE | CTROPHOTOMETRY | 10.01 | mg/dL | 8.50 - 10.60 |
| - | RUM DATE, SPECTROPHOTOMETRY | 2.92 | mg/dL | 2.30 - 4.70 |
| ELECTROLYTES | | | | |
| SODIUM: SERUM by ISE (ION SELECTIV | E ELECTRODE) | 141.5 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUE by ISE (ION SELECTIV | M | 4.17 | mmol/L | 3.50 - 5.00 |
| CHLORIDE: SERUM | ſ | 106.13 | mmol/L | 90.0 - 110.0 |
| | ERULAR FILTERATION RATE | 94.6 | | |

Dr. Vinay Chopra

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.

3. GI haemorrhage.



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| BARCODE NO. | :01525148 | | | OLLECTION DAT | | Feb/2025 11: Feb/2025 11: | |
| | | | | | | | |
| CLIENT CODE. CLIENT ADDRESS | : KOS DIAGN : 6349/1, NI | CHOLSON ROAD, AMB | | EPORTING DATI | 2 :08/1 | Feb/2025 01: | 18PM |
| Test Name | | _ | Value | Un | it | Biologic | al Reference inter |
| Excess protein inta burns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. INCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia | kia, high fever (e.g. ureter co ass (subnorma tetracycline, <u>c</u> D:1) WITH ELE (BUN rises dis superimposec | blostomy) al creatinine productior llucocorticoids) /ATED CREATININE LEVE sproportionately more t on renal disease. |) LS: | | | hing's syndro | me, high protein die |
| 5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in | se or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, co D:1) WITH ELE (BUN rises di superimposed D:1) WITH DEC osis. d starvation. creased ureas urea rather th nonemias (ur f inappropiate D:1) WITH INC oy (accelerate eleases musch who develop r sis (acetoacet treased BUN/ apy (interfere LAR FILTERAT |). blostomy) al creatinine production plucocorticoids) VATED CREATININE LEVE sproportionately more to on renal disease. CREASED BUN : creatinine diffuses of ea is virtually absent in e antidiuretic harmone) REASED CREATININE: s conversion of creating e creatinine). renal failure. ate causes false increas creatinine ratio). s with creatinine measu |) LS: han creatinine blood). due to tubular to creatinine e in creatinine rement). | e) (e.g. obstructive lular fluid). secretion of urea | e uropathy). hodologies,res ASSOCIATE | ulting in norn | |
| 5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 9. Prerenal azotemia 9. Prerenal azotemia 9. CertaSED RATIO (<1 9. Acute tubular necr 9. Low protein diet ar 9. Severe liver disease 9. Other causes of de 10. Repeated dialysis (10. Inherited hyperam 11. SIADH (syndrome c 12. Pregnancy. 12. Phenacimide thera 13. Muscular patients 14. Phenacimide thera 15. Muscular patients 16. Muscular patients 17. Diabetic ketoacido 15. Diabetic ketoacido 16. Diabetic ketoacido 17. Cephalosporin ther 17. STAGE | e or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELE (BUN rises di- superimposed D:1) WITH DEC osis. d starvation. creased ureas urea rather th nonemias (ur f inappropiate D:1) WITH INC oy (accelerate eleases muscl- who develop n sis (acetoacet treased BUN/ apy (interfere LAR FILTERATI |). blostomy) al creatinine production plucocorticoids) VATED CREATININE LEVE sproportionately more to on renal disease. CREASED BUN : block and the second creatinine diffuses of the antidiuretic harmone) REASED CREATININE: s conversion of creatine the creatinine). renal failure. ate causes false increases creatinine ratio). s with creatinine measu ON RATE: DESCRIPTION ormal kidney function Kidney damage with |) LS: han creatinine blood). due to tubular to creatinine e in creatinine rement). | e) (e.g. obstructive lular fluid). r secretion of urea). e with certain met /min/1.73m2) | e uropathy). hodologies,res <u>ASSOCIATE</u> <u>No pro</u> Presence o | ulting in norn D FINDINGS teinuria of Protein , | |
| 5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 0. Postrenal azotemia 0. Prerenal azotemia 0. Acute tubular necr 9. Low protein diet ar 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 6. Pregnancy. 0. Pregnancy. 0. Pregnancy. 0. Phenacimide thera 2. Rhabdomyolysis (r 6. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther 1. STATED GLOMERL 0. CKD STAGE 1. G1 1. G2 | e or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, co D:1) WITH ELE (BUN rises di- superimposed D:1) WITH DEC osis. d starvation. creased ureas urea rather th nonemias (ur f inappropiate D:1) WITH INC oy (accelerate eleases muscl- who develop r sis (acetoacet treased BUN/ apy (interfere LAR FILTERATI |). blostomy) al creatinine production plucocorticoids) VATED CREATININE LEVE sproportionately more to on renal disease. CREASED BUN : block and creatinine diffuses of the antidiuretic harmone) REASED CREATININE: s conversion of creatine antidiuretic harmone) REASED CREATININE: s conversion of creatine the creatinine). renal failure. ate causes false increases creatinine ratio). s with creatinine measu ON RATE: DESCRIPTION ormal kidney function Kidney damage with normal or high GFR. |) LS: han creatinine ut of extracel blood). due to tubular to creatinine e in creatinine rement). GFR (mL | e) (e.g. obstructive lular fluid). r secretion of urea). e with certain met / <u>min/1.73m2) >90 >90</u> | e uropathy). hodologies,res <u>ASSOCIATE</u> No pro | ulting in norn D FINDINGS teinuria of Protein , | |
| 5. Excess protein inta purns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 9. Postrenal azotemia 0. Prerenal azotemia 0. Certased RATIO (<1 9. Acute tubular necr 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. 0. Pregnancy. 0. Pregnancy. 0. Phenacimide thera 1. Phenacimide thera 1. Phenacimide thera 1. Diabetic ketoacido 1. Cephalosporin ther 1. STIMATED GLOMERL 0. CKD STAGE 0. G1 0. G2 0. G3a | e or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELE (BUN rises di- superimposed D:1) WITH DEC osis. d starvation. creased ureas urea rather th nonemias (ur f inappropiate D:1) WITH INC oy (accelerate eleases muscl- who develop n sis (acetoacet treased BUN/ apy (interfere LAR FILTERATI |). blostomy) al creatinine production plucocorticoids) VATED CREATININE LEVE sproportionately more to on renal disease. CREASED BUN : synthesis. an creatinine diffuses of the artidiuretic harmone) REASED CREATININE: s conversion of creatine the creatinine net increase creatinine ratio). s with creatinine measu ON RATE: DESCRIPTION ormal kidney function Kidney damage with normal or high GFR Mild decrease in GFR |) LS: han creatinine ut of extracel blood). due to tubular to creatinine e in creatinine rement). GFR (mL | e) (e.g. obstructive lular fluid). r secretion of urea). e with certain met /min/1.73m2) >90 >90 | e uropathy). hodologies,res <u>ASSOCIATE</u> <u>No pro</u> Presence o | ulting in norn D FINDINGS teinuria of Protein , | |
| 5. Excess protein inta burns, surgery, cache 7. Urine reabsorption 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 6. 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 | se or producti kia, high fever (e.g. ureter co ass (subnorma tetracycline, g D:1) WITH ELE (BUN rises di- superimposed D:1) WITH DEC osis. d starvation. creased ureas urea rather th nonemias (ur f inappropiate D:1) WITH INC oy (accelerate eleases muscl- who develop n sis (acetoacet treased BUN/ apy (interfere LAR FILTERATI |). blostomy) al creatinine production plucocorticoids) VATED CREATININE LEVE sproportionately more to on renal disease. CREASED BUN : block and creatinine diffuses of the antidiuretic harmone) REASED CREATININE: s conversion of creatine antidiuretic harmone) REASED CREATININE: s conversion of creatine the creatinine). renal failure. ate causes false increases creatinine ratio). s with creatinine measu ON RATE: DESCRIPTION ormal kidney function Kidney damage with normal or high GFR. |) LS: han creatinine blood). due to tubular to creatinine e in creatinine rement). GFR (mL | e) (e.g. obstructive lular fluid). r secretion of urea). e with certain met / <u>min/1.73m2) >90 >90</u> | e uropathy). hodologies,res <u>ASSOCIATE</u> <u>No pro</u> Presence o | ulting in norn D FINDINGS teinuria of Protein , | |





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

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







| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi | | (Pathology) |
|---------------------|---|--------------------------|-------------------------------|
| NAME | : Mrs. SHARDA | | |
| AGE/ GENDER | : 32 YRS/FEMALE | PATIENT ID | : 1749641 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012502080028 |
| REFERRED BY | : | REGISTRATION DATE | : 08/Feb/2025 11:29 AM |
| BARCODE NO. | : 01525148 | COLLECTION DATE | :08/Feb/202511:32AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | :08/Feb/202501:18PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | Г | |
| 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



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







| | М | r. Vinay Chopra D (Pathology & Micro nairman & Consultan | obiology) | | gam Chopr MD (Patholog ultant Pathologi | у) | |
|---|---|--|--------------------|--|---|---------------------------|--------------|
| NAME | : Mrs. SHARDA | | | | | | |
| AGE/ GENDER | : 32 YRS/FEMAL | Æ | | PATIENT ID | : 1749 | 641 | |
| COLLECTED BY | : | | | REG. NO./LAB NO. | :0125 | 502080028 | |
| REFERRED BY | : | | | REGISTRATION DAT | FE : 08/Fe | eb/2025 11:29 AM | |
| BARCODE NO. | :01525148 | | | COLLECTION DATE | :08/Fe | eb/2025 11:32AM | |
| CLIENT CODE. | : KOS DIAGNOS | FIC LAB | | REPORTING DATE | :08/Fe | eb/202501:31PM | |
| CLIENT ADDRESS | : 6349/1, NICHO | DLSON ROAD, AMBA | ALA CANTI | ſ | | | |
| Test Name | | | Value | Unit | | Biological Referen | nce interval |
| | | | 0.412 | CTION TEST: TOT ng/1 | | 0.35 - 1.93 | |
| by CMIA (CHEMILUMIN THYROXINE (T4): S | iescent micropar SERUM | | 8.02 | μgm | | 4.87 - 12.60 | |
| by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT INTERPRETATION: | TING HORMONE | C (TSH): SERUM | 6.065 ^H | μIU, | /mL | 0.35 - 5.50 | |
| TSH levels are subject to a day has influence on the l | <i>measured serum TSH c</i> lure at any level of reg | <i>oncentrations</i> . TSH stim gulation of the hypothal | ulates the p | nd at a minimum between a oduction and secretion of ry-thyroid axis will result in | the metabolically | active hormones, thyroxir | ne (T4)and |
| CLINICAL CONDITION | | T3 | | T4 | TSI | - | |
| Primary Hypothyroidis | | Reduced | | Reduced | Increased (S | a . | |
| Subclinical Hypothyroi | | Normal or Low Norma | 1 | Normal or Low Normal | Hiç | | |
| Primary Hyperthyroidis | | Increased Normal or High Norma | | Increased Normal or High Normal | | times undetectable) | |
| Subclinical Hyperthyro | | | | | | | |

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism , recent rapid correction of hyperthyroidism or hypothyroidism , pregnancy , phenytoin therapy.

| TRIIODOTHYRONINE (T3) | | THYROX | INE (T4) | THYROID STIMULATING HORMONE (TSH) | | |
|-----------------------|-----------------------------|-------------------|-----------------------------|-----------------------------------|-----------------------------|--|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (µg/dL) | Age | Reference Range (μIU/mL) | |
| 0 - 7 Days | 0.20 - 2.65 | 0 - 7 Days | 5.90 - 18.58 | 0 - 7 Days | 2.43 - 24.3 | |
| 7 Days - 3 Months | 0.36 - 2.59 | 7 Days - 3 Months | 6.39 - 17.66 | 7 Days - 3 Months | 0.58 - 11.00 | |
| 3 - 6 Months | 0.51 - 2.52 | 3 - 6 Months | 6.75 - 17.04 | 3 Days – 6 Months | 0.70 - 8.40 | |
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6 – 12 Months | 0.70 - 7.00 | |





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

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





Page 12 of





| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog | | (Pathology) |
|--------------------|--|--------------------------|------------------------|
| NAME | : Mrs. SHARDA | | |
| AGE/ GENDER | : 32 YRS/FEMALE | PATIENT ID | : 1749641 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012502080028 |
| REFERRED BY | : | REGISTRATION DATE | : 08/Feb/2025 11:29 AM |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CANT | Т | |

| Test Name | | | Value | Unit | t | Biological Reference interval |
|---------------------|---------------|-----------------------|------------------|---------------------|-------------|--------------------------------------|
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11- 19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87-13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35-5.50 | |
| | RECO | VIMENDATIONS OF TSH L | EVELS DURING PRE | GNANCY (µIU/mL) | | |
| | 1st Trimester | | | 0.10 - 2.50 | | |
| | 2nd Trimester | | | 0.20 - 3.00 | | |
| | 3rd Trimester | | | 0.30 - 4.10 | | |

INCREASED TSH LEVELS:

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | Dr. Yugam MD CEO & Consultant | (Pathology) |
|--------------------------------------|--|--------------|-------------------------------------|--------------------------------------|
| NAME | : Mrs. SHARDA | | | |
| AGE/ GENDER | : 32 YRS/FEMALE | PA | TIENT ID | : 1749641 |
| COLLECTED BY | : | RE | G. NO./LAB NO. | : 012502080028 |
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| BARCODE NO. | : 01525148 | CO | LLECTION DATE | :08/Feb/202511:32AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | PORTING DATE | : 08/Feb/2025 12:25PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | CLINICAL PA | THOLOGY | |
| | URINE RO | | SCOPIC EXAMINA | ATION |
| PHYSICAL EXAMI | NATION | | | |
| QUANTITY RECIEV | ED STANCE SPECTROPHOTOMETRY | 10 | ml | |
| COLOUR | | PALE YELLO | W | PALE YELLOW |
| TRANSPARANCY | TANCE SPECTROPHOTOMETRY | HAZY | | CLEAR |
| SPECIFIC GRAVITY | | 1.02 | | 1.002 - 1.030 |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| REACTION | | ACIDIC | | |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | - | | |
| SUGAR by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| pH | TANCE SPECTROPHOTOMETRY | <=5.0 | | 5.0 - 7.5 |
| BILIRUBIN | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| NITRITE | | Negative | | NEGATIVE (-ve) |
| UROBILINOGEN | TANCE SPECTROPHOTOMETRY. | Normal | EU/dL | 0.2 - 1.0 |
| KETONE BODIES | | Negative | | NEGATIVE (-ve) |
| BLOOD | TANCE SPECTROPHOTOMETRY | TRACE | | NEGATIVE (-ve) |
| ASCORBIC ACID by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | NEGATIVE (- | ve) | NEGATIVE (-ve) |
| MICROSCOPIC EX | | | ///// | |
| RED BLOOD CELLS | (KBUS) | 3-4 | /HPF | 0 - 3 |

57 ∞ n



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

| NAME | : Mrs. SHARDA | | | | |
|--|-----------------------------------|---------------------------------------|-----------|--|--|
| AGE/ GENDER | : 32 YRS/FEMALE | PATIENT 1 | ID | : 1749641 | |
| COLLECTED BY | : | REG. NO./LAB NO. | | : 012502080028 | |
| REFERRED BY | : | REGISTRA | TION DATE | :08/Feb/2025 11:29 AM | |
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| | | | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | CENTRIFUGED URINARY SEDIMENT | · · · · · · · · · · · · · · · · · · · | Child | | |
| PUS CELLS | CENTRIFUGED URINARY SEDIMENT | 1-2 | /HPF | 0 - 5 | |
| EPITHELIAL CELL by MICROSCOPY ON | S CENTRIFUGED URINARY SEDIMENT | 0-3 | /HPF | ABSENT | |
| CRYSTALS | | NEGATIVE (-ve) | | NEGATIVE (-ve) | |

| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | | |
|---|----------------|----------------|
| 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 **



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

MBBS, MD (PATHOLOGY)

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