



| | Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar | obiology) | | (Pathology) |
|-----------------------------------|---|--------------------|-------------------|--|
| NAME | : Mrs. RANI YADAV | | | |
| AGE/ GENDER | : 76 YRS/FEMALE |] | PATIENT ID | : 1698825 |
| COLLECTED BY | : SURJESH |] | REG. NO./LAB NO. | : 012412140008 |
| REFERRED BY | : | I | REGISTRATION DATE | : 14/Dec/2024 09:23 AM |
| BARCODE NO. | : 01522424 | | COLLECTION DATE | : 14/Dec/2024 09:38AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 14/Dec/2024 09:56AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMB/ | ALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | CIIIACT | | LINESS PANEL: 1.2 | |
| | | | | |
| | | LETE BLU | OOD COUNT (CBC) | |
| RED BLOOD CELLS HAEMOGLOBIN (H | S (RBCS) COUNT AND INDICES | 11.4 ^L | gm/dL | 12.0 - 16.0 |
| by CALORIMETRIC | | | U U | |
| RED BLOOD CELL (| RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE | 3.64 | Millions/ | cmm 3.50 - 5.00 |
| PACKED CELL VOLU | | 36.7 ^L | % | 37.0 - 50.0 |
| MEAN CORPUSCUL | | 100.8 ^H | fL | 80.0 - 100.0 |
| MEAN CORPUSCUL | AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER | 31.4 | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER | 31.1 ^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIB | UTION WIDTH (RDW-CV) | 18.7 ^H | % | 11.00 - 16.00 |
| RED CELL DISTRIB | UTION WIDTH (RDW-SD) | 69.5 ^H | fL | 35.0 - 56.0 |
| MENTZERS INDEX by CALCULATED | | 27.69 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INE by CALCULATED | | 51.92 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CE | | 0000 | | 4000 11000 |
| TOTAL LEUCOCYTE | E COUNT (TLC) / by sf cube & microscopy | 6020 | /cmm | 4000 - 11000 |
| | BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER | NIL | | 0.00 - 20.00 |
| NUCLEATED RED B | BLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER | NIL | % | < 10 % |
| | | | | |





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







| | Dr. Vinay Chop MD (Pathology & M Chairman & Consul | icrobiology) | Dr. Yugam MD (CEO & Consultant I | Pathology) |
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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| DIFFERENTIAL LE | UCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS | | 70 | % | 50 - 70 |
| by FLOW CYTOMETRY LYMPHOCYTES | Y BY SF CUBE & MICROSCOPY | 90 | 0/ | 20 - 40 |
| | BY SF CUBE & MICROSCOPY | 20 | % | 20 - 40 |
| EOSINOPHILS | | 2 | % | 1 - 6 |
| by FLOW CYTOMETRY MONOCYTES | Y BY SF CUBE & MICROSCOPY | 8 | % | 2 12 |
| | Y BY SF CUBE & MICROSCOPY | 0 | 70 | 2 - 12 |
| BASOPHILS | | 0 | % | 0 - 1 |
| | (BY SF CUBE & MICROSCOPY | | | |
| | CYTES (WBC) COUNT | 4014 | 1 | 2000 2500 |
| ABSOLUTE NEUTR | UPHIL COUN I / BY SF CUBE & MICROSCOPY | 4214 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPH | | 1204 | /cmm | 800 - 4900 |
| | BY SF CUBE & MICROSCOPY | 190 | 1 | 10 110 |
| ABSOLUTE EOSINC | PHIL COUN I / BY SF CUBE & MICROSCOPY | 120 | /cmm | 40 - 440 |
| ABSOLUTE MONOC | | 482 | /cmm | 80 - 880 |
| by FLOW CYTOMETRY ABSOLUTE BASOPI | BY SF CUBE & MICROSCOPY | 0 | lomm | 0 110 |
| | / BY SF CUBE & MICROSCOPY | 0 | /cmm | 0 - 110 |
| PLATELETS AND O | THER PLATELET PREDICTIVE | <u>MARKERS.</u> | | |
| PLATELET COUNT | | 249000 | /cmm | 150000 - 450000 |
| by HYDRO DYNAMIC F PLATELETCRIT (PC | OCUSING, ELECTRICAL IMPEDENCE | 0.25 | % | 0.10 - 0.36 |
| | OCUSING, ELECTRICAL IMPEDENCE | 0.25 | 70 | 0.10 - 0.30 |
| MEAN PLATELET V by hydro dynamic f | OLUME (MPV) | 10 | fL | 6.50 - 12.0 |
| | CELL COUNT (P-LCC) | 69000 | /cmm | 30000 - 90000 |
| PLATELET LARGE | CELL RATIO (P-LCR) | 27.5 | % | 11.0 - 45.0 |
| PLATELET DISTRIE | BUTION WIDTH (PDW) OCUSING, ELECTRICAL IMPEDENCE CTED ON EDTA WHOLE BLOOD | 16.6 | % | 15.0 - 17.0 |



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



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| LIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | IBALA CANTT | | |
| Fest Name | | Value | Unit | Biological Reference interval |
| 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see polycythaemia), sigr as sickle cells in sickle NOTE: I. ESR and C - reactiv | be used to monitor disease activity ematosus W ESR n with conditions that inhibit the no | flammation. Fo and response ormal sedimen at (leucocytosis f inflammation 2. either at the | or this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s and some protein abno start of inflammation or a | picallý used in conjunction with other test such above diseases as well as some others, such as such as a high red blood cell count prmalities. Some changes in red cell shape (such as it resolves. |





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| Test Name | | Value | Unit | Biological Reference interval |
| | CLIP | NICAL CHEMISTR GLUCOSE FA | | ſRY |
| GLUCOSE FASTING | G (F): PLASMA E - PEROXIDASE (GOD-POD) | 110.88 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 |

INTERPRETATION IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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| Fest Name | | Value | Unit | Biological Reference interval |
| | | LIPID PRO | FILE : BASIC | |
| HOLESTEROL TO | TAL: SERUM | 144.63 | mg/dL | OPTIMAL: < 200.0 |
| by CHOLESTEROL OX | | | | BORDERLINE HIGH: 200.0 - |
| | | | | 239.0 HIGH CHOLESTEROL: > OR = |
| | | | | 240.0 |
| RIGLYCERIDES: S | | 78.79 | mg/dL | OPTIMAL: < 150.0 |
| by GLYCEROL PHOSP | PHATE OXIDASE (ENZYMATIC) | | | BORDERLINE HIGH: 150.0 - 199.0 |
| | | | | HIGH: 200.0 - 499.0 |
| | | | | VERY HIGH: $> OR = 500.0$ |
| IDL CHOLESTERO | L (DIRECT): SERUM | 44.32 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 |
| | | | | 60.0 |
| | CEDIN | 04.55 | . / 11 | HIGH HDL: $> OR = 60.0$ |
| DL CHOLESTEROI | | 84.55 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129. |
| | | | | BORDERLINE HIGH: 130.0 - |
| | | | | 159.0 HIGH: 160.0 - 189.0 |
| | | | | VERY HIGH: > OR = 190.0 |
| ION HDL CHOLES | | 100.31 | mg/dL | OPTIMAL: < 130.0 |
| by CALCULATED, SPE | CTROPHOTOMETRY | | | ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - |
| | | | | 189.0 |
| | | | | HIGH: 190.0 - 219.0 |
| LDL CHOLESTER | DL: SERUM | 15.76 | mg/dL | VERY HIGH: > OR = 220.0 0.00 - 45.00 |
| by CALCULATED, SPE | CTROPHOTOMETRY | | | |
| OTAL LIPIDS: SER by calculated, spe | | 368.05 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HD | L RATIO: SERUM | 3.26 | RATIO | LOW RISK: 3.30 - 4.40 |
| by CALCULATED, SPE | CIROPHOTOMETRY | | | AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 |
| | | | | |



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| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S by CALCULATED, SPE | | 1.91 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H by CALCULATED, SPE | IDL RATIO: SERUM | 1.78 ^L | 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.

 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.
 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 |
| BILIRUBIN TOTAL by DIAZOTIZATION, SI | | FUNCTIO | N TEST (COMPLETE) mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | C (CONJUGATED): SERUM | 0.19 | mg/dL | 0.00 - 0.40 |
| | CT (UNCONJUGATED): SERUM | 0.67 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM | [/RIDOXAL PHOSPHATE | 22.5 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM | | 15.9 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: S | ERUM | 1.42 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPI | | 124.62 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMY by SZASZ, SPECTROF | L TRANSFERASE (GGT): SERUM PHTOMETRY | 15.1 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: by BIURET, SPECTRO | SERUM | 7.05 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM | | 4.21 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUN by CALCULATED, SPE | 1 | 2.84 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUN | M | 1.48 | RATIO | 1.00 - 2.00 |

by CALCULATED, SPECTROPHOTOMETRY

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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INTERPRETATION





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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).

| 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 |
| | KIDNE | Y FUNCTION | TEST (COMPLETE) | |
| UREA: SERUM by UREASE - GLUTAN | IATE DEHYDROGENASE (GLDH) | 27.73 | mg/dL | 10.00 - 50.00 |
| CREATININE: SERU | | 0.84 | mg/dL | 0.40 - 1.20 |
| BLOOD UREA NITROGEN (BUN): SERUM by CALCULATED, SPECTROPHOTOMETRY | | 12.96 | mg/dL | 7.0 - 25.0 |
| BLOOD UREA NITE RATIO: SERUM by Calculated, SPE | ROGEN (BUN)/CREATININE | 15.43 | RATIO | 10.0 - 20.0 |
| UREA/CREATININ by CALCULATED, SPE | | 33.01 | RATIO | |
| URIC ACID: SERUM by URICASE - OXIDAS | | 3.02 | mg/dL | 2.50 - 6.80 |
| CALCIUM: SERUM by ARSENAZO III, SPE | | 8.5 | mg/dL | 8.50 - 10.60 |
| • | ERUM DATE, SPECTROPHOTOMETRY | 2.72 | mg/dL | 2.30 - 4.70 |
| ELECTROLYTES SODIUM: SERUM | | 139.3 | mmol/L | 135.0 - 150.0 |
| by ISE (ION SELECTIV POTASSIUM: SERU | M | 4.56 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIV CHLORIDE: SERUM by ISE (ION SELECTIV | 1 /E ELECTRODE) | 104.48 | mmol/L | 90.0 - 110.0 |
| ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION: | TERULAR FILTERATION RATE ERULAR FILTERATION RATE reen pre- and post renal azotemia. | 72 | | |

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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| Test Name | | | Value | Uni | it | Biolo | gical Re | ference i | nterval |
| 1. Postrenal azotemia | 20:1) WITH ELEVA a (BUN rises dispr | cocorticoids) FED CREATININE LEVEI oportionately more th | | e) (e.g. obstructive | uropathy) | | | | |
| Postrenal azotemia Prerenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (1. Phenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE tosis. and starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCRE py (accelerates cr eleases muscle cl who develop ren creased BUN/cre rapy (interferes w JLAR FILTERATION | rED CREATININE LEVEL oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses ou is virtually absent in the tidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increase atinine ratio). ith creatinine measur | an creatining ut of extracel blood). lue to tubula to creatining in creatining ement). | llular fluid). r secretion of urea :). | hodologies | | | tio when d | ehydrati |
| 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome (8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE tosis. and starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCRE upy (accelerates creased suppropiate ar sis (acetoacetate creased BUN/cre rapy (interferes w JLAR FILTERATION Norr Kid | rED CREATININE LEVEL oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses ou is virtually absent in the retidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increase atinine ratio). ith creatinine measur IRATE: DESCRIPTION nal kidney function ney damage with | an creatining ut of extracel blood). lue to tubula to creatining in creatining ement). | Ilular fluid). r secretion of urea :). e with certain metl /min/1.73m2) | hodologies ASSOCI No | s,resulting in n | SS | tio when d | ehydrati |
| Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Severe liver diseas Naperated dialysis Naperated dialysis Negnancy. DECREASED RATIO (< Severe liver diseas Rhabdomyolysis (r Severe liver diseas Nuscular patients Inabetic ketoacido should produce an in Cephalosporin the ESTIMATED GLOMERI G1 G2 | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE rosis. ad starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCRE upy (accelerates created eleases muscle created who develop ren creased BUN/cre rapy (interferes w JLAR FILTERATION Norr Kid no | FED CREATININE LEVEL oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone). ASED CREATININE: conversion of creatine reatinine). al failure. causes false increase attinine ratio). ith creatinine measure the tridiuretic harmone is the treatinine ratio. ITESCRIPTION nal kidney function ney damage with rmal or high GFR | an creatining ut of extracel blood). lue to tubula to creatining ement). | Ilular fluid). r secretion of urea e). e with certain meth /min/1.73m2) >90 >90 | hodologies ASSOCI | s,resulting in n IATED FINDING proteinuria | SS | tio when d | ehydrati |
| Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Severe liver diseas Acute tubular necr SIADH (syndrome of SIADH (syndrome of SIADH syndrome of Severe liver diseas Rhabdomyolysis (r Severe liver diseas Rouscular patients Inabetic ketoacido should produce an in Cephalosporin there <u>G1 G2 G1 G2 G3a </u> | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE rosis. ad starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCREA upy (accelerates creased BUN/cre rapy (interferes w JLAR FILTERATION Norr Kid | FED CREATININE LEVEL oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone). ASED CREATININE: conversion of creatine reatinine). al failure. causes false increase attinine ratio). ith creatinine measure in the tridiuretic harmone in the tridiuretic | an creatining ut of extracel blood). lue to tubula to creatining ement). | Ilular fluid). r secretion of urea e). e with certain meth /min/1.73m2) >90 >90 60 -89 | hodologies ASSOCI | s,resulting in n IATED FINDING proteinuria nce of Protein | SS | tio when d | lehydrati |
| Postrenal azotemia Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 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 thei <u>ESTIMATED GLOMERI G1 G2 G3a G3a G3b </u> | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE rosis. ad starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCREA upy (accelerates created eleases muscle created who develop ren bisis (acetoacetated creased BUN/created rapy (interferes wonther the syntherity DIAR FILTERATION Norreated Noreated Norreated Norreated No | TED CREATININE LEVEL oportionately more the menal disease. ASED BUN : ASED BUN : thesis. creatinine diffuses ou is virtually absent in the ntidiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increase atinine ratio). ith creatinine measur IRATE: DESCRIPTION nal kidney function ney damage with rmal or high GFR d decrease in GFR rate decrease in GFR | an creatinine ut of extracel blood). lue to tubula to creatinine ement). | Ilular fluid). r secretion of urea e). e with certain meth /min/1.73m2) >90 >90 60 -89 30-59 | hodologies ASSOCI | s,resulting in n IATED FINDING proteinuria nce of Protein | SS | tio when d | lehydrati |
| Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Severe liver diseas Acute tubular necr SIADH (syndrome of SIADH (syndrome of SIADH syndrome of Severe liver diseas Rhabdomyolysis (r Severe liver diseas Rouscular patients Inabetic ketoacido should produce an in Cephalosporin there <u>G1 G2 G1 G2 G3a </u> | 20:1) WITH ELEVA a (BUN rises dispr superimposed or 10:1) WITH DECRE rosis. ad starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate ar 10:1) WITH INCREA upy (accelerates created eleases muscle created who develop ren b: sis (acetoacetated creased BUN/created rapy (interferes word UAR FILTERATION Norright Kid no Millonde Severe | FED CREATININE LEVEL oportionately more the renal disease. ASED BUN : thesis. creatinine diffuses out is virtually absent in the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone) of the tridiuretic harmone). ASED CREATININE: conversion of creatine reatinine). al failure. causes false increase attinine ratio). ith creatinine measure in the tridiuretic harmone in the tridiuretic | an creatinine ut of extracel blood). lue to tubula to creatinine ement). | Ilular fluid). r secretion of urea e). e with certain meth /min/1.73m2) >90 >90 60 -89 | hodologies ASSOCI | s,resulting in n IATED FINDING proteinuria nce of Protein | SS | tio when d | lehydrati |





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









| | Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta | crobiology) MI | m Chopra D (Pathology) nt Pathologist |
|--------------------|---|--------------------------|---|
| NAME | : Mrs. RANI YADAV | | |
| AGE/ GENDER | : 76 YRS/FEMALE | PATIENT ID | : 1698825 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012412140008 |
| REFERRED BY | : | REGISTRATION DATE | : 14/Dec/2024 09:23 AM |
| BARCODE NO. | : 01522424 | COLLECTION DATE | : 14/Dec/2024 09:38AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 14/Dec/2024 10:37AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMH | BALA CANTT | |
| | | | |
| 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)







| | | h opra & Microbiology) nsultant Pathologi | M | I m Chopra D (Pathology) nt Pathologist | |
|--|--|--|--------------------------------|--|-------|
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| BARCODE NO. | : 01522424 | | COLLECTION DATE | : 14/Dec/2024 09:38AM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | :14/Dec/2024 12:33PM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANT | г | | |
| Test Name | | Value | Unit | Biological Reference inte | erval |
| | | ENDO | CRINOLOGY | | |
| | T | HYROID FUN | CTION TEST: TOTAL | | |
| TRIIODOTHYRONI | NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO | 1.14 ASSAY) | ng/mI | 0.35 - 1.93 | |
| THYROXINE (T4): S | SERUM IESCENT MICROPARTICLE IMMUNO | 6.84 ASSAY) | μgm/d | L 4.87 - 12.60 | |
| | TING HORMONE (TSH): SER | | μIU/m | L 0.35 - 5.50 | |
| 3rd GENERATION, ULT INTERPRETATION: | IESCENT MICROPARTICLE IMMUNO, RASENSITIVE | 435 <i>A Y)</i> | | | |
| day has influence on the triiodothyronine (T3).Fai | measured serum TSH concentrations. | FSH stimulates the p | roduction and secretion of the | Dpm. The variation is of the order of 50%.Hence tin metabolically active hormones, thyroxine (T4)an ther underproduction (hypothyroidism) or | |
| CLINICAL CONDITION | T3 | | T4 | TSH | |
| Primary Hypothyroidis | | | Reduced | Increased (Significantly) | |
| Subclinical Hypothyroi | dism: Normal or Lo | w ivormal | Normal or Low Normal | High | |

| 111 | <i>ι</i> ιτΔ | TIO | NS:- |
|-----|--------------|-----|------|

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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 |

Increased

Normal or High Normal





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









| | Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P | | (Pathology) | |
|--------------------|---|--------------------------|------------------------|--|
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| Test Name | | | Value | Value Unit | | Biological Reference interva | |
|---------------------|---------------|---------------------|-------------------|---------------------|-------------|------------------------------|--|
| 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 | MMENDATIONS OF TSH | LEVELS 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)







| | Dr. Vinay Cho MD (Pathology & Chairman & Cons | Microbiology) | Dr. Yugam MD CEO & Consultant | (Pathology) |
|-------------------------------------|---|---------------|-------------------------------------|-------------------------------|
| NAME | : Mrs. RANI YADAV | | | |
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| COLLECTED BY | : SURJESH | REG | . NO./LAB NO. | : 012412140008 |
| REFERRED BY | : | REG | ISTRATION DATE | : 14/Dec/2024 09:23 AM |
| BARCODE NO. | :01522424 | | LECTION DATE | : 14/Dec/2024 09:38AM |
| CLIENT CODE. CLIENT ADDRESS | : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A | | PORTING DATE | : 14/Dec/2024 12:24PM |
| Test Name | | Value | Unit | Biological Reference interval |
| | | CLINICAL PA | тилі осу | |
| | URINE ROI | | SCOPIC EXAMINA | ATION |
| PHYSICAL EXAMI | | | | |
| QUANTITY RECIEV | ED | 10 | ml | |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | AMBER YELL | OW | PALE YELLOW |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | 0W | |
| TRANSPARANCY by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | HAZY | | CLEAR |
| SPECIFIC GRAVITY | | <=1.005 | | 1.002 - 1.030 |
| CHEMICAL EXAMI | TANCE SPECTROPHOTOMETRY | | | |
| REACTION | | ACIDIC | | |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| SUGAR | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| pH | | 6.5 | | 5.0 - 7.5 |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | |
| NITRITE by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY. | Negative | | NEGATIVE (-ve) |
| UROBILINOGEN | | Normal | EU/dL | 0.2 - 1.0 |
| KETONE BODIES | | Negative | | NEGATIVE (-ve) |
| BLOOD | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | NEGATIVE (-v | | NEGATIVE (-ve) |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | NEGATIVE (-V | | NEGATIVE (-VE) |
| MICROSCOPIC EX | | | | |
| RED BLOOD CELLS | (RBCs) | NEGATIVE (-v | ve) /HPF | 0 - 3 |

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





NANGE



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

DANT VADAV



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

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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANT | Г | |
| Test Name | | Value | Unit | Biological Reference interval |
| by MICROSCOPY ON C | CENTRIFUGED URINARY SEDIMENT | | | |
| PUS CELLS | | 1-3 | /HPF | 0 - 5 |

| PUS CELLS | 1-3 | /HPF | 0 - 5 | |
|--|-------------------|------|----------------|--|
| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 4-5 | /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 | A FEW DROPLETS SE | EN | NEGATIVE (-ve) | |
| TRICHOMONAS VAGINALIS (PROTOZOA) | ABSENT | | ABSENT | |

** End Of Report ***



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