



| Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta | crobiology) | | Pathology) |
|--|-------------------|--------------------------|--|
| NAME : Mrs. KIRAN KATYAL | | | |
| AGE/ GENDER : 67 YRS/FEMALE | | PATIENT ID | : 1628877 |
| COLLECTED BY : SURJESH | | REG. NO./LAB NO. | : 012409290019 |
| REFERRED BY : CENTRAL PHOENIX CLUB (AMBA | ALA CANTT) | REGISTRATION DATE | : 29/Sep/2024 09:08 AM |
| BARCODE NO. : 01517931 | | COLLECTION DATE | : 29/Sep/2024 09:14AM |
| CLIENT CODE. : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 29/Sep/2024 09:38AM |
| CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AM | BALA CANT I | | |
| Test Name | Value | Unit | Biological Reference interval |
| SWA | STHYA W | ELLNESS PANEL: G | |
| CO | MPLETE BL | OOD COUNT (CBC) | |
| RED BLOOD CELLS (RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (HB) by CALORIMETRIC | 11.8 ^L | gm/dL | 12.0 - 16.0 |
| RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 5.07 ^H | Millions/cn | nm 3.50 - 5.00 |
| PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 38.3 | % | 37.0 - 50.0 |
| MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 75.5 ^L | fL | 80.0 - 100.0 |
| MEAN CORPUSCULAR HAEMOGLOBIN (MCH) | 23.3 ^L | pg | 27.0 - 34.0 |
| by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 30.9 ^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 15.5 | % | 11.00 - 16.00 |
| RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER | 43.7 | fL | 35.0 - 56.0 |
| MENTZERS INDEX by CALCULATED | 14.89 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INDEX | 23.11 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CELLS (WBCS) | | | INON DEFICIENCE ANEIVIA. 203.0 |
| TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 6190 | /cmm | 4000 - 11000 |
| NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER | NIL | | 0.00 - 20.00 |
| NUCLEATED RED BLOOD CELLS (nRBCS) % | NIL | % | < 10 % |
| by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS | 58 | % | 50 - 70 |
| by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | | | |





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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

Page 1 of 12





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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| LYMPHOCYTES | | 29 | % | 20 - 40 |
| - | Y BY SF CUBE & MICROSCOPY | , | 0/ | 1 (|
| EOSINOPHILS | Y BY SF CUBE & MICROSCOPY | 6 | % | 1 - 6 |
| MONOCYTES | | 7 | % | 2 - 12 |
| | Y BY SF CUBE & MICROSCOPY | | | |
| BASOPHILS | | 0 | % | 0 - 1 |
| | Y BY SF CUBE & MICROSCOPY | | | |
| ABSOLUTE LEUKOCY | <u>TES (WBC) COUNT</u> | | | |
| ABSOLUTE NEUTROF | PHIL COUNT | 3590 | /cmm | 2000 - 7500 |
| - | Y BY SF CUBE & MICROSCOPY | 1.202 | | |
| ABSOLUTE LYMPHO | | 1795 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOP | Y BY SF CUBE & MICROSCOPY | 371 | /cmm | 40 - 440 |
| | Y BY SF CUBE & MICROSCOPY | 571 | 7011111 | 40 - 440 |
| ABSOLUTE MONOCY | | 433 | /cmm | 80 - 880 |
| by FLOW CYTOMETRY | Y BY SF CUBE & MICROSCOPY | | | |
| ABSOLUTE BASOPHI | | 0 | /cmm | 0 - 110 |
| | Y BY SF CUBE & MICROSCOPY | DC C | | |
| | HER PLATELET PREDICTIVE MARKE | | | |
| PLATELET COUNT (PI | | 145000 ^L | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) | FOCUSING, ELECTRICAL IMPEDENCE | 0.21 | % | 0.10 - 0.36 |
| | OCUSING, ELECTRICAL IMPEDENCE | 0.21 | 70 | 0.10 0.30 |
| MEAN PLATELET VO | | 14 ^H | fL | 6.50 - 12.0 |
| | FOCUSING, ELECTRICAL IMPEDENCE | | | |
| | · · · · · · | 79000 | /cmm | 30000 - 90000 |
| PLATELET LARGE CEL | OCUSING, ELECTRICAL IMPEDENCE | F4 /H | % | 11.0 - 45.0 |
| | FOCUSING, ELECTRICAL IMPEDENCE | 54.6 ^H | /0 | 11.0 - 45.0 |
| PLATELET DISTRIBUT | | 16.4 | % | 15.0 - 17.0 |
| | OCUSING, ELECTRICAL IMPEDENCE | | | |
| NOTE: TEST CONDU | CTED ON EDTA WHOLE BLOOD | | | |



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | AMBALA CANTT | | 1 |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | | |
| GLYCOSYLATED HAEI | | COSYLATED HAI 6.5 ^H | EMOGLOBIN (HBA1C) % | 4.0 - 6.4 |
| GLYCOSYLATED HAEI | MOGLOBIN (HbA1c): | 6.5 ^H | | 4.0 - 6.4 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI | MOGLOBIN (HbA1c): D RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE | 6.5 ^H | | 4.0 - 6.4 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO | MOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) | 6.5 ^H | % | |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO | MOGLOBIN (HbA1c): DRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) | 6.5^H 139.85 | % mg/dL | |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: | MOGLOBIN (HbA1c): D RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE | 6.5 ^H 139.85 DIABETES ASSOCIA | % mg/dL | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | 6.5 ^H 139.85 DIABETES ASSOCIA | % mg/dL TION (ADA): //COSYLATED HEMOGLOGIB <5.7 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: NOT DIA Non dia | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 6.5 ^H 139.85 DIABETES ASSOCIA | % mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 – 6.4 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | 6.5 ^H 139.85 DIABETES ASSOCIA | % mg/dL TION (ADA): COSYLATED HEMOGLOGIB <5.7 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: NOT DIA Non dia | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 6.5 ^H 139.85 DIABETES ASSOCIA GLY | % mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years | 60.00 - 140.00 (HBAIC) in % |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes | 6.5 ^H 139.85 DIABETES ASSOCIA GLY GLY Goals of | % mg/dL TION (ADA): COOSYLATED HEMOGLOGIB <5.7 | 60.00 - 140.00 (HBAIC) in % |
| WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAGI by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | MOGLOBIN (HbA1c): PRMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 6.5 ^H 139.85 DIABETES ASSOCIA GLY GLY Goals of | % mg/dL TION (ADA): <u>COSYLATED HEMOGLOGIB</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years | 60.00 - 140.00 (HBAIC) in % |

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

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

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

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

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





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| Test Name | | Value | Unit | Biological Reference interval |
| | ERYTI | HROCYTE SEDIN | VENTATION RATE (ES | R) |
| | | | | |
| | MENTATION RATE (ESR) | 34 ^H | mm/1st l | |
| by RED CELL AGGRE | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET | TRY C. | | hr 0 - 20 |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET | r RY It often indicates t | he presence of inflammat | hr 0 - 20 |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides | r RY It often indicates t | he presence of inflammat | hr 0 - 20 |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides | It often indicates t oner exactly where s inflammation. Fo | he presence of inflammat the inflammation is in the r this reason, the ESR is ty | hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifi immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitio cted by other conditions besides be used to monitor disease activ | It often indicates t oner exactly where s inflammation. Fo | he presence of inflammat the inflammation is in the r this reason, the ESR is ty | hr 0 - 20 |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMEN ic test because an elevated resu does not tell the health practitio cted by other conditions besides be used to monitor disease active ematosus W ESR | rry Ilt often indicates to oner exactly where s inflammation. Fo vity and response t | he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a | hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 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 | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th hificantly high white blood cell c | It often indicates to oner exactly where s inflammation. Fo vity and response to e normal sedimentiount (leucocytosis | he presence of inflammat the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s | hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such |
| by RED CELL AGGREE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 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 | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th | It often indicates to oner exactly where s inflammation. Fo vity and response to e normal sedimentiount (leucocytosis | he presence of inflammat the inflammation is in the r this reason, the ESR is ty to therapy in both of the a tation of red blood cells, s | hr 0 - 20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count |
| by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specifimmune disease, but 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 sickl NOTE: 1. ESR and C - reactiv | MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMET ic test because an elevated resu does not tell the health practitic cted by other conditions besides be used to monitor disease active ematosus W ESR n with conditions that inhibit th hificantly high white blood cell c | rrry It often indicates to oner exactly where is inflammation. Fo vity and response to e normal sedimention ount (leucocytosis ESR. rs of inflammation. | he presence of inflammat the inflammation is in the r this reason, the ESR is ty o therapy in both of the a tation of red blood cells, s) , and some protein abno | hr 0-20 ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such 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 |

 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment and pregnance and environment. aspirin, cortisone, and quinine may decrease it





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| Test Name | | Value | Unit | Biological Reference interval |
| | CLIN | | STRY/BIOCHEMISTR | Y |
| | | | | |
| | | GLUCOSI | E FASTING (F) | |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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|--|---|---------------------|--|--|
| AGE/ GENDER: 67 YR.COLLECTED BY: SURJEREFERRED BY: CENTBARCODE NO.: 01517CLIENT CODE.: KOS D | RAL PHOENIX CLUB (A | | PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE | : 1628877 : 012409290019 : 29/Sep/2024 09:08 AM : 29/Sep/2024 09:14AM : 29/Sep/2024 11:49AM |
| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PRO | OFILE : BASIC | |
| CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PA | | 116.37 | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 |
| TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIL | DASE (ENZYMATIC) | 95.49 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROL (DIRECT): by SELECTIVE INHIBITION | SERUM | 51.17 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHO | DTOMETRY | 46.1 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 |
| NON HDL CHOLESTEROL: SER by CALCULATED, SPECTROPHO | | 65.2 | mg/dL | OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHO | TOMETRY | 19.1 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SERUM by CALCULATED, SPECTROPHO | DTOMETRY | 328.23 ^L | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HDL RATIO: SE by CALCULATED, SPECTROPHO | ERUM | 2.27 | RATIO | LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |
| LDL/HDL RATIO: SERUM by CALCULATED, SPECTROPHO | TOMETRY | 0.9 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





| | Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho | | (Pathology) |
|------------------|--|-------------------------|-------------------------------|
| NAME | : Mrs. KIRAN KATYAL | | |
| AGE/ GENDER | : 67 YRS/FEMALE | PATIENT ID | : 1628877 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012409290019 |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AMBALA CAN | TT) REGISTRATION DATE | : 29/Sep/2024 09:08 AM |
| BARCODE NO. | : 01517931 | COLLECTION DATE | : 29/Sep/2024 09:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 29/Sep/2024 11:49AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CA | NTT | |
| Test Name | Value | Unit | Biological Reference interval |
| TRIGLYCERIDES/HD | 1.07 | 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.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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| | MD (Pathology & Microbiology) MD Chairman & Consultant Pathologist CEO & Consultant | | | n Chopra (Pathology) : Pathologist |
|---|--|--------------|--------------------------|---|
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | |
| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | N TEST (COMPLETE) | |
| BILIRUBIN TOTAL: SE by DIAZOTIZATION, SP | | 0.72 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | CONJUGATED): SERUM | 0.24 | mg/dL | 0.00 - 0.40 |
| - | (UNCONJUGATED): SERUM | 0.48 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM | | 16.15 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM | RIDOXAL PHOSPHATE | 18.84 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SERI | UM | 0.86 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHAT | | 106.36 L | U/L | 40.0 - 130.0 |
| | TRANSFERASE (GGT): SERUM | 15.58 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SE | RUM | 6.49 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM | | 3.65 | gm/dL | 3.50 - 5.50 |

by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM 1.29 by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

by BROMOCRESOL GREEN GLOBULIN: SERUM

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 |

2.84





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2.30 - 3.50

1.00 - 2.00

gm/dL

RATIO

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| | Dr. Vinay Chop MD (Pathology & M Chairman & Consul | licrobiology) | Dr. Yugam MD CEO & Consultant | (Pathology) | |
|------------------|--|------------------------|-------------------------------------|-----------------------------|-----|
| NAME | : Mrs. KIRAN KATYAL | | | | |
| AGE/ GENDER | : 67 YRS/FEMALE | PAT | FIENT ID | : 1628877 | |
| COLLECTED BY | : SURJESH | REC | G. NO./LAB NO. | : 012409290019 | |
| REFERRED BY | : CENTRAL PHOENIX CLUB (AME | BALA CANTT) REC | GISTRATION DATE | : 29/Sep/2024 09:08 AM | |
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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REI | PORTING DATE | : 29/Sep/2024 11:49AM | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | IBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interv | /al |
| HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS | | > 1.3 (Slightly Incr | eased) | |

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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| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist | | Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist | |
|--|---|-----------------|--|-------------------------------|
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| AGE/ GENDER | : 67 YRS/FEMALE | | PATIENT ID | : 1628877 |
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| REFERRED BY | : CENTRAL PHOENIX CLUB | (AMBALA CANTT) | REGISTRATION DATE | : 29/Sep/2024 09:08 AM |
| BARCODE NO. | : 01517931 | | COLLECTION DATE | : 29/Sep/2024 09:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 29/Sep/2024 01:45PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROA | D, AMBALA CANTT | | ľ |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | ON TEST (COMPLETE) | |
| UREA: SERUM | | 32.82 | mg/dL | 10.00 - 50.00 |
| | MATE DEHYDROGENASE (GLDH) | 02.02 | nig/ de | 10.00 00.00 |
| CREATININE: SERUN | | 0.82 | mg/dL | 0.40 - 1.20 |
| · · · · · · · · · · · · · · · · · · · | by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM | | ma/dl | 7.0 - 25.0 |
| | ECTROPHOTOMETRY | 15.34 | mg/dL | 7.0 - 23.0 |
| BLOOD UREA NITROGEN (BUN)/CREATININE | | 18.71 | RATIO | 10.0 - 20.0 |
| RATIO: SERUM | | | | |
| | | 40.02 | RATIO | |
| UREA/CREATININE I | ECTROPHOTOMETRY | 40.02 | RATIO | |
| URIC ACID: SERUM | | 5.28 | mg/dL | 2.50 - 6.80 |
| by URICASE - OXIDAS | SE PEROXIDASE | | | |
| CALCIUM: SERUM by ARSENAZO III, SPE | | 8.8 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SEF | | 3.53 | mg/dL | 2.30 - 4.70 |
| | DATE, SPECTROPHOTOMETRY | | ing, iii | |
| ELECTROLYTES | | | | |
| SODIUM: SERUM | | 140.6 | mmol/L | 135.0 - 150.0 |
| by ISE (ION SELECTIV | | 4 41 | mm of // | 2 50 5 00 |
| POTASSIUM: SERUN by ISE (ION SELECTIV | | 4.41 | mmol/L | 3.50 - 5.00 |
| CHLORIDE: SERUM | , | 105.45 | mmol/L | 90.0 - 110.0 |
| by ISE (ION SELECTIV | - | | | |
| | RULAR FILTERATION RATE | | | |
| | RULAR FILTERATION RATE | 78.4 | | |
| (eGFR): SERUM by calculated | | | | |
| | | | | |

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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| | | Dr. Vinay Chop MD (Pathology & Mid Chairman & Consulta | robiology) | | ugam Cho MD (Patho sultant Patho | ology) | | |
|---|---|---|---|---|--|------------------|---------------------|------|
| NAME | : Mrs. KIRA | N KATYAL | | | | | | |
| AGE/ GENDER | : 67 YRS/FEI | / ALE | | PATIENT ID | : 10 | 628877 | | |
| COLLECTED BY | : SURJESH | | | REG. NO./LAB NO. | • 0 | 12409290019 | | |
| REFERRED BY | | MOENIV CLUD (AMD) | | | | | | |
| | | PHOENIX CLUB (AMBA | ALA CANTT) | | | 9/Sep/2024 09:08 | | |
| BARCODE NO. | :01517931 | | | COLLECTION DATE | | 9/Sep/2024 09:14 | | |
| CLIENT CODE. | : KOS DIAGN | OSTIC LAB | | REPORTING DATE | : 29 | 9/Sep/2024 01:45 | 5PM | |
| CLIENT ADDRESS | : 6349/1, NI | CHOLSON ROAD, AMI | BALA CANTI | | | | | |
| | | | | | | | | |
| Test Name | | | Value | Unit | t | Biological | Reference interv | /al |
| burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 | xia, high fever (e.g. ureter co ass (subnorma tetracycline, g 0:1) WITH ELE | lostomy) I creatinine productic lucocorticoids) /ATED CREATININE LE\ | n) /ELS : | | | ushing's syndrom | ne, high protein di | iet, |
| burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (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. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO | ke or producti xia, high fever (e.g. ureter cc ass (subnorma tetracycline, g 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. e. creased urea s urea rather th monemias (uru fi inappropiate 0:1) WITH INC py (accelerate eleases muscle who develop r | I. lostomy) l creatinine productic lucocorticoids) /ATED CREATININE LEV proportionately more on renal disease. REASED BUN : ynthesis. an creatinine diffuses ea is virtually absent i antidiuretic harmone REASED CREATININE: s conversion of creatin e creatinine). enal failure. | n) /ELS: than creatin n blood).) due to tubu ne to creatini | ine) (e.g. obstructive cellular fluid). Ilar secretion of urea. ne). | uropathy). | | | |
| burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (< 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. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera | ke or producti xia, high fever (e.g. ureter cc ass (subnorma tetracycline, g 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. 2: creased urea s urea rather th monemias (uru f inappropiate 0:1) WITH INC py (accelerate eleases muscle who develop r sis (acetoaceta creased BUN/c apy (interferee | I. Iostomy) I creatinine productic Iucocorticoids) /ATED CREATININE LEV proportionately more on renal disease. REASED BUN : ynthesis. an creatinine diffuses ea is virtually absent i antidiuretic harmone REASED CREATININE: s conversion of creating creatinine). enal failure. atte causes false increating with creatinine meas | n) /ELS: than creatin n blood).) due to tubu ne to creatini se in creatin | ine) (e.g. obstructive cellular fluid). Ilar secretion of urea. ne). | uropathy). | | | |
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| UND STADE | DEJONII HON | | ASSOCIATED TINDINGS |
|-----------|--------------------------|--------|--------------------------|
| G1 | Normal kidney function | >90 | No proteinuria |
| G2 | Kidney damage with | >90 | Presence of Protein, |
| | normal or high GFR | | Albumin or cast in urine |
| G3a | Mild decrease in GFR | 60 -89 | |
| G3b | Moderate decrease in GFR | 30-59 | |
| G4 | Severe decrease in GFR | 15-29 | |
| G5 | Kidney failure | <15 | |
| | | | |





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

COMMENTS: 1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012 3. 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 eGFR with Creatine CFP.

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

End Of Report ***





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