

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

| | Dr. Vinay Cho MD (Pathology & M Chairman & Consu | Microbiology) | | (Pathology) |
|--------------------------------------|--|----------------|--------------------------|--------------------------------------|
| NAME | : Mr. LALIT GARG | | | |
| AGE/ GENDER | : 48 YRS/MALE | | PATIENT ID | : 1667310 |
| COLLECTED BY | : | | REG. NO./LAB NO. | : 012411100007 |
| REFERRED BY | : | | REGISTRATION DATE | : 10/Nov/2024 08:21 AM |
| BARCODE NO. | : 01520457 | | COLLECTION DATE | : 10/Nov/2024 08:37AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 10/Nov/2024 09:01AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANT" | ľ | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWA | STHYA W | ELLNESS PANEL: G | |
| | CO | MPLETE BI | LOOD COUNT (CBC) | |
| ED BLOOD CELL | S (RBCS) COUNT AND INDICES | 5 | | |
| IAEMOGLOBIN (H | B) | 17 | gm/dL | 12.0 - 17.0 |
| by CALORIMETRIC | (RBC) COUNT | 6 ^H | Millions | /cmm 3.50 - 5.00 |
| by HYDRO DYNAMIC P ACKED CELL VOL | FOCUSING, ELECTRICAL IMPEDENCE | 51.9 | % | 40.0 - 54.0 |
| by CALCULATED BY A | AUTOMATED HEMATOLOGY ANALYZEF | 7 | | |
| | AR VOLUME (MCV) automated hematology analyzef | 86.5 र | fL | 80.0 - 100.0 |
| | AR HAEMOGLOBIN (MCH) | 28.4 | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MCH | C) 32.8 | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIB | automated hematology analyzef SUTION WIDTH (RDW-CV) | 13.2 | % | 11.00 - 16.00 |
| | automated hematology analyzef SUTION WIDTH (RDW-SD) | ч 43.1 | fL | 35.0 - 56.0 |
| by CALCULATED BY A | AUTOMATED HEMATOLOGY ANALYZEF | 7 | | |
| MENTZERS INDEX by CALCULATED | | 14.42 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 |
| | | | | IRON DEFICIENCY ANEMIA: |
| GREEN & KING INI |)FX | 19.07 | RATIO | >13.0 BETA THALASSEMIA TRAIT:<< |
| by CALCULATED | | 10.07 | INAT IO | 65.0 |
| | | | | IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CE | LLS (WBCS) | | | 03.0 |
| TOTAL LEUCOCYTI | E COUNT (TLC) | 7640 | /cmm | 4000 - 11000 |
| • | y by sf cube & microscopy BLOOD CELLS (nRBCS) | NIL | | 0.00 - 20.00 |
| by AUTOMATED 6 PA | RT HEMATOLOGY ANALYZER | | | |
| | BLOOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZEF | NIL | % | < 10 % |
| ., | | | | |
| | | | | |



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

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



Page 1 of 13





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

| NAME | : Mr. LALIT GARG | | |
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| | | | |
| Test Name | Value | Unit | Biological Reference interval |

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

| Test Name | Value | Unit | Biological Reference interval |
|--|----------|------|--------------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 56 | % | 50 - 70 |
| LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 36 | % | 20 - 40 |
| EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 2 | % | 1 - 6 |
| MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 6 | % | 2 - 12 |
| BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 0 | % | 0 - 1 |
| ABSOLUTE LEUKOCYTES (WBC) COUNT | | | |
| ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 4278 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 2750 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy | 153 | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 458 | /cmm | 80 - 880 |
| ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 0 | /cmm | 0 - 110 |
| ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY | 76 | /cmm | 0.0 - 999.0 |
| PLATELETS AND OTHER PLATELET PREDICTIVE | MARKERS. | | |
| PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence | 256000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence | 0.27 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence | 11 | fL | 6.50 - 12.0 |
| PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence | 78000 | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence | 30.6 | % | 11.0 - 45.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence | 16.6 | % | 15.0 - 17.0 |
| | | | |



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| | | | 7 |
| Test Name | Value | Unit | Biological Reference interval |

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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| BARCODE NO. | : 01520457 | | ECTION DATE | : 10/Nov/2024 08:37AM |
| CLIENT CODE. | | | | : 10/Nov/2024 02:34PM |
| | : KOS DIAGNOSTIC LAB | | DRTING DATE | : 10/1007/2024 02:34PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interv |
| WHOLE BLOOD | EMOGLOBIN (HbA1c): | 8.4 ^H | % | 4.0 - 6.4 |
| | | | | |
| | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) | 194.38 ^H | mg/dL | 60.00 - 140.00 |
| by HPLC (HIGH PERFO | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) | | | 60.00 - 140.00 |
| by HPLC (HIGH PERFO INTERPRETATION: | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN | DIABETES ASSOCIATION | (ADA): | |
| by HPLC (HIGH PERFO INTERPRETATION: | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP | DIABETES ASSOCIATION | (ADA): /LATED HEMOGLOGIB | |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | DIABETES ASSOCIATION | (ADA): /LATED HEMOGLOGIB <5.7 | |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia A | AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | DIABETES ASSOCIATION | (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 | |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia A | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | DIABETES ASSOCIATION | (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 | |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia A | AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | DIABETES ASSOCIATION GLYCOSY | (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years | (HBAIC) in % |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) tiagnosing Diabetes | DIABETES ASSOCIATION GLYCOSY GUIS of The | (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: | (HBAIC) in % |
| by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | AGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | DIABETES ASSOCIATION GLYCOSY | (ADA): /LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: | (HBAIC) in % |

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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 appropiate.

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 faisely 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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|--|---|--|---|---|---|
| JAME | : Mr. LALIT GARG | | | | |
| AGE/ GENDER | : 48 YRS/MALE | PATI | ENT ID | : 166731 | 0 |
| COLLECTED BY | : | REG. | NO./LAB NO. | :01241 | 1100007 |
| REFERRED BY | : | REGI | STRATION DATE | :10/Nov | v/2024 08:21 AM |
| BARCODE NO. | : 01520457 | COLL | ECTION DATE | :10/Nov | v/2024 08:37AM |
| LIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | :10/Nov | v/2024 09:16AM |
| LIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | MBALA CANTT | | | |
| lest Name | | Value | Unit | | Biological Reference interval |
| by RED CELL AGGRE ITERPRETATION: . ESR is a non-specif nmune disease, but . An ESR can be affe s C-reactive protein | DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY fic test because an elevated result of does not tell the health practitione cted by other conditions besides in | often indicates the pr er exactly where the i nflammation. For this | mm/1st esence of inflammat nflammation is in the reason, the ESR is ty | hr tion associate e body or wh pically used | in conjunction with other test such |
| ystemic lupus eryth CONDITION WITH LO' Now ESR can be see polycythaemia), sign s sickle cells in sickl IOTE: . ESR and C - reactive . Generally, ESR doe . CRP is not affected . If the ESR is elevat . Women tend to ha | W ESR In with conditions that inhibit the r | normal sedimentation nt (leucocytosis) , and s. of inflammation. P, either at the start of making it a better ma bes of proteins, globu and pregnancy can ca | of red blood cells, s some protein abno of inflammation or a irker of inflammation ins or fibrinogen. use temporary eleva | uch as a high ormalities. Sc s it resolves. n. ations. | h red blood cell count ome changes in red cell shape (such |
| spirin, cortisone, ar | nd quinine may decrease it | | | | |





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| CLIENT CODE. | : KOS DIAGNOSTIC | LAB | REPORTING DATE | : 10/Nov/2024 11:25AM |
| CLIENT ADDRESS | : 6349/1, NICHOLS | ON ROAD, AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | CLINICAL CHEMIS | TRY/BIOCHEMIST | 'RY |
| | | GLUCOSE | E FASTING (F) | |
| | | 213.43 ^H | mg/dL | NORMAL: < 100.0 |

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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.

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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| | | hopra & Microbiology) onsultant Pathologist | | (Pathology) |
|---|--|--|--|---|
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| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PRO |)FILE : BASIC | |
| CHOLESTEROL TOT by CHOLESTEROL OX | | 137.53 | 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) | 74.68 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROI by SELECTIVE INHIBITI | | 31.88 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROL by CALCULATED, SPE | | 90.71 | 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 | | 105.65 | 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 | | 14.94 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SER | UM | 349.74 ^L | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HD by CALCULATED, SPE | L RATIO: SERUM | 4.31 | 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 | | 2.85 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H by CALCULATED, SPE | | 2.34 ^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 |
| | LIVER | FUNCTION | N TEST (COMPLETE) | |
| BILIRUBIN TOTAL | | 0.87 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | C (CONJUGATED): SERUM | 0.35 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRE | CT (UNCONJUGATED): SERUM | 0.52 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM | [/RIDOXAL PHOSPHATE | 27.07 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM | | 58.77 ^H | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: S | ERUM | 0.46 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPI | | 90.39 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMY by SZASZ, SPECTRON | L TRANSFERASE (GGT): SERUM | 20.34 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: by BIURET, SPECTRO | SERUM | 6.85 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM | | 4.38 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUN by CALCULATED, SPE | 1 | 2.47 | gm/dL | 2.30 - 3.50 |
| | | 4 | DATE | 1 0 0 0 0 0 |

Dr Vinay Chon

by CALCULATED, SPECTROPHOTOMETRY INTERPRETATION

A : G RATIO: 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 |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |

1.77





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

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

RATIO

1.00 - 2.00

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | IBALA CANTT | |
|--------------------|--|--------------------------|------------------------|
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 10/Nov/2024 10:38AM |
| BARCODE NO. | : 01520457 | COLLECTION DATE | : 10/Nov/2024 08:37AM |
| REFERRED BY | : | REGISTRATION DATE | : 10/Nov/2024 08:21 AM |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012411100007 |
| AGE/ GENDER | : 48 YRS/MALE | PATIENT ID | : 1667310 |
| NAME | : Mr. LALIT GARG | | |
| | MD (Pathology & M Chairman & Consul | icrobiology) MI | D (Pathology) |
| | Dr. Vinay Chor | ora 📔 Dr. Yugai | n Chopra |

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

DECREASED:

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

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

| PROGNOSTIC SIGNIFICANO | :Е: |
|------------------------|-----|
| | |

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



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Dr. Yugam Chopra

| | MD (Pathology & N Chairman & Consu | licrobiology) | MD CEO & Consultant | (Pathology) |
|---|---------------------------------------|---------------|------------------------|-------------------------------|
| | : Mr. LALIT GARG | | | |
| | : 48 YRS/MALE | PATI | ENT ID | : 1667310 |
| | : | REG. | NO./LAB NO. | : 012411100007 |
| | : | REGI | STRATION DATE | : 10/Nov/2024 08:21 AM |
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| 5 | : 6349/1, NICHOLSON ROAD, AM | IBALA CANTT | | |
| | | Value | Unit | Biological Reference interval |
| | KIDNI | VEINCTIONT | | |

Dr. Vinay Chopra

| KIDNEY | FUNCTION TEST (C | OMPLETE) | |
|--|------------------|----------|---------------|
| UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) | 26.89 | mg/dL | 10.00 - 50.00 |
| CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY | 0.71 | mg/dL | 0.40 - 1.40 |
| BLOOD UREA NITROGEN (BUN): SERUM by Calculated, spectrophotometry | 12.57 | mg/dL | 7.0 - 25.0 |
| BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometry | 17.7 | RATIO | 10.0 - 20.0 |
| UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 37.87 | RATIO | |
| URIC ACID: SERUM by URICASE - OXIDASE PEROXIDASE | 4.73 | mg/dL | 3.60 - 7.70 |
| CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY | 9.01 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY | 3.03 | mg/dL | 2.30 - 4.70 |
| <u>ELECTROLYTES</u> | | | |
| SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | 141.6 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | 4.62 | mmol/L | 3.50 - 5.00 |
| CHLORIDE: SERUM by ise (ion selective electrode) | 106.2 | mmol/L | 90.0 - 110.0 |
| ESTIMATED GLOMERULAR FILTERATION RATE | | | |
| ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM | 113.2 | | |

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.

3. GI haemorrhage.



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NAME

AGE/ GENDER

COLLECTED BY

REFERRED BY BARCODE NO.

CLIENT CODE.

Test Name

CLIENT ADDRESS

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| | Dr. Vinay Ch MD (Pathology & Chairman & Con | k Microbiology) | Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist | | |
|--|---|---|--|---|------------------------|
| IAME | : Mr. LALIT GARG | | | | |
| GE/ GENDER | : 48 YRS/MALE | PATIENT I | D | : 1667310 | |
| COLLECTED BY | : | REG. NO./L | AB NO. | :012411100007 | |
| REFERRED BY | | REGISTRA | FION DATE | : 10/Nov/2024 08:2 | 21 AM |
| BARCODE NO. | : 01520457 | COLLECTIO | | : 10/Nov/2024 08:3 | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTIN | | : 10/Nov/2024 10:3 | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | | UDAIL | . 10/110// 2024 10.0 | (07 MV |
| Test Name | | Value | Unit | Biological | l Reference interval |
| 2. Prerenal azotemia | (0:1) WITH ELEVATED CREATININ (BUN rises disproportionately n superimposed on renal disease. (0:1) WITH DECREASED BUN : | nore than creatinine) (e.g. obs | tructive uropat | thy). | |
| Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin ther | a (BUN rises disproportionately n superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. and starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harm IO:1) WITH INCREASED CREATININ py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine n JLAR FILTERATION RATE: DESCRIPTION Normal kidney func | nore than creatinine) (e.g. obs uses out of extracellular fluid) ent in blood). none) due to tubular secretion VE: eatine to creatinine). crease in creatinine with cert. neasurement). GFR (mL/min/1.73 tion >90 th >90 | of urea. ain methodolo m2) ASS | gies,resulting in norma <u>SOCIATED FINDINGS</u> <u>No proteinuria</u> esence of Protein , | al ratio when dehydrat |
| 2. Prerenal azotemia DECREASED RATIO (< Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (5. Inherited hyperam 4. SIADH (syndrome of 5. Pregnancy. DECREASED RATIO (< 5. Phenacimide thera 6. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido hould produce an in 6. Cephalosporin theration 5. STIMATED GLOMERI CKD STAGE G1 G2 | a (BUN rises disproportionately n superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. and starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harm IO:1) WITH INCREASED CREATININ py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine n JLAR FILTERATION RATE: DESCRIPTION Normal kidney func Kidney damage wi normal or high GF | nore than creatinine) (e.g. obs uses out of extracellular fluid) ent in blood). none) due to tubular secretion VE: eatine to creatinine). crease in creatinine with cert. neasurement). GFR (mL/min/1.73 tion >90 th >90 -R | of urea. ain methodolo m2) ASS | gies,resulting in norma SOCIATED FINDINGS No proteinuria | al ratio when dehydrat |
| 2. Prerenal azotemia 2. Prerenal azotemia 2. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis 4. SIADH (syndrome of 5. Pregnancy. 2. Phenacimide thera 5. Muscular patients 2. Anabdomyolysis (r 3. Muscular patients 2. Anabdomyolysis (r 3. Muscular patients 2. CKD STAGE 3. G1 3. G2 3. G3a 3. G3a 3. G3a 3. G3a 3. G3a 3. G3a 3. G2 3. G3a 3. G3a 3. CKD STAGE 3. G3 3. G3a 3. G3 3. | a (BUN rises disproportionately n superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. nd starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harm IO:1) WITH INCREASED CREATININ py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine n JLAR FILTERATION RATE: DESCRIPTION Normal kidney func Kidney damage wi normal or high GF Mild decrease in G | nore than creatinine) (e.g. obs uses out of extracellular fluid) ent in blood). none) due to tubular secretion VE: eatine to creatinine). crease in creatinine with cert. neasurement). GFR (mL/min/1.73 tion >90 th >90 FR 60 -89 | of urea. ain methodolo m2) ASS | gies,resulting in norma <u>SOCIATED FINDINGS</u> <u>No proteinuria</u> esence of Protein , | al ratio when dehydrat |
| Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet an Severe liver diseas Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Joiabetic ketoacido should produce an in Cephalosporin there ESTIMATED GLOMERI G1 | a (BUN rises disproportionately n superimposed on renal disease. IO:1) WITH DECREASED BUN : osis. and starvation. e. creased urea synthesis. (urea rather than creatinine diffu monemias (urea is virtually abse of inappropiate antidiuretic harm IO:1) WITH INCREASED CREATININ py (accelerates conversion of cre eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). apy (interferes with creatinine n JLAR FILTERATION RATE: DESCRIPTION Normal kidney func Kidney damage wi normal or high GF | nore than creatinine) (e.g. obs uses out of extracellular fluid) ent in blood). none) due to tubular secretion VE: eatine to creatinine). crease in creatinine with certaneasurement). GFR (mL/min/1.73 tion >90 th >90 FR 60 -89 n GFR 30-59 | of urea. ain methodolo m2) ASS | gies,resulting in norma <u>SOCIATED FINDINGS</u> <u>No proteinuria</u> esence of Protein , | il ratio when dehydrat |





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

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

End Of Report ***





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