

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

| | Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta | robiology) | Dr. Yugam (MD (F CEO & Consultant P | athology) |
|--|--|-------------------|--|---|
| IAME | : Mr. VATAN ANAND | | | |
| GE/ GENDER | : 31 YRS/MALE | PA | FIENT ID | : 1713359 |
| OLLECTED BY | : | RE | G. NO./LAB NO. | : 012412310041 |
| EFERRED BY | : | | GISTRATION DATE | : 31/Dec/2024 07:54 PM |
| ARCODE NO. | : 01523274 | | LLECTION DATE | : 31/Dec/2024 09:16PM |
| LIENT CODE. LIENT ADDRESS | : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AME | | PORTING DATE | : 31/Dec/2024 08:21PM |
| Test Name | | Value | Unit | Dialogical Deference interral |
| lest Name | | value | Unit | Biological Reference interval |
| | SWAS | THYA WELI | NESS PANEL: G | |
| | | | D COUNT (CBC) | |
| ED BLOOD CELL | S (RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (H | | 9.6 ^L | gm/dL | 12.0 - 17.0 |
| ED BLOOD CELL | | 4.34 | Millions/cr | mm 3.50 - 5.00 |
| ACKED CELL VOL | | 29.8 ^L | % | 40.0 - 54.0 |
| MEAN CORPUSCUL | AUTOMATED HEMATOLOGY ANALYZER .AR VOLUME (MCV) AUTOMATED HEMATOLOGY ANALYZER | 68.6 ^L | fL | 80.0 - 100.0 |
| AEAN CORPUSCUI | LAR HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER | 22.2 ^L | pg | 27.0 - 34.0 |
| MEAN CORPUSCUI | LAR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER | 32.4 ^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIE | BUTION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER | 16.3 ^H | % | 11.00 - 16.00 |
| RED CELL DISTRIE | BUTION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER | 41.4 | fL | 35.0 - 56.0 |
| MENTZERS INDEX by CALCULATED | | 15.81 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING IN | DEX | 25.86 | RATIO | >13.0 BETA THALASSEMIA TRAIT:< 65.0 |
| - | | | | IRON DEFICIENCY ANEMIA: > 65.0 |
| | | | 1 | 4000 11000 |
| WHITE BLOOD CE | | | /cmm | 4000 - 11000 |
| OTAL LEUCOCYT | | 5800 | | |
| OTAL LEUCOCYT by flow cytometr IUCLEATED RED I | E COUNT (TLC) | 5800 NIL | | 0.00 - 20.00 |





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

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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. VATAN ANAND AGE/ GENDER : 31 YRS/MALE **PATIENT ID** :1713359 **COLLECTED BY** REG. NO./LAB NO. :012412310041 **REFERRED BY REGISTRATION DATE** : 31/Dec/2024 07:54 PM **BARCODE NO.** :01523274 **COLLECTION DATE** : 31/Dec/2024 09:16PM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 31/Dec/2024 08:21PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 46^L % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 35 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 15^H % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 2668 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2030 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 232/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 870^H /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 78000^L /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

PLATELETCRIT (PCT) 0.08^L % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) /cmm 24000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 28000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.1% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE **KINDLY CORRELATE CLINICALLY**

ADVICE



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

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0.10 - 0.36

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000





| | Dr. Vinay Chopra MD (Pathology & Microbiole Chairman & Consultant Path | 3, , | (Pathology) |
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| Test Name | Vah | le Unit | Biological Reference interval |

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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MBBS, MD (PATHOLOGY)

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| Test Name | | Value | Unit | Biological Reference interval |
| | GLY | COSYLATED HAEMOO | LOBIN (HBA1C) | |
| | dLi | | | |
| GLYCOSYLATED HAE | MOGLOBIN (HbA1c): | 4.9 | % | 4.0 - 6.4 |
| WHOLE BLOOD | MOGLOBIN (HbA1c): | | | 4.0 - 6.4 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM | ANCE LIQUID CHROMATOGRAPHY) | | | 4.0 - 6.4 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) | 4.9 93.93 | % | |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) | 4.9 93.93 Etes association (ada): | % mg/dL | 60.00 - 140.00 |
| NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP | 4.9 93.93 Etes association (ada): | % | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H | % mg/dL EMOGLOGIB (HBAIC) ii | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Detic Adults >= 18 years | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H | % mg/dL EMOGLOGIB (HBAIC) in <5.7 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes) | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H | % mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP vetic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H | % mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP Metic Adults >= 18 years Risk (Prediabetes) | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H | % mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 e > 19 Years | 60.00 - 140.00 |
| WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAG by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Dia | MANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP vetic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes | 4.9 93.93 ETES ASSOCIATION (ADA): GLYCOSYLATED H Goals of Therapy: Actions Suggested: | % mg/dL EMOGLOGIB (HBAIC) in <5.7 5.7 − 6.4 >= 6.5 => 19 Years <7.0 | 60.00 - 140.00 |

COMMENTS:

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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MBBS, MD (PATHOLOGY)

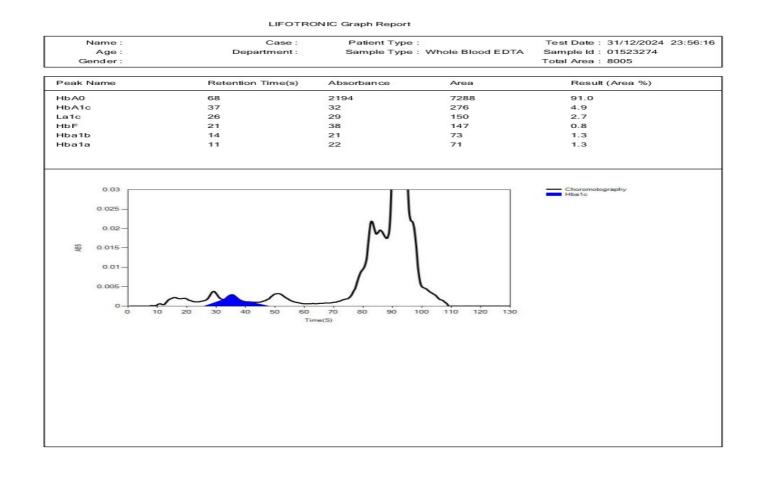
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| Test Name | | Value Unit | Biological Reference interva |







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| LIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANT | Т | |
| 'est Name | | Value | Unit | Biological Reference interval |
| by RED CELL AGGRE TERPRETATION: ESR is a non-specif mune disease, but | DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETE fic test because an elevated resu does not tell the health practitic | 22H RY It often indicate | ere the inflammation is in th | hr 0 - 20 ion associated with infection, cancer and auto e body or what is causing it. |
| by RED CELL AGGRE ITERPRETATION: ESR is a non-specifi nmune disease, but An ESR can be affe s C-reactive protein This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be see bolycythaemia), sign s sickle cells in sick OTE: ESR and C - reactiv Generally, ESR doe CRP is not affected | DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETER fic test because an elevated result does not tell the health practitic ected by other conditions besides be used to monitor disease active ematosus W ESR en with conditions that inhibit the nificantly high white blood cell co le cell anaemia) also lower the E re protein (C-RP) are both marker as not change as rapidly as does (by as many other factors as is ES | 22 ^H RY It often indicate oner exactly who is inflammation. vity and respons e normal sedime ount (leucocyto ESR. rs of inflammatic CRP, either at th SR, making it a b | mm/1st es the presence of inflammat ere the inflammation is in th For this reason, the ESR is ty se to therapy in both of the a entation of red blood cells, s sis), and some protein abno on. the start of inflammation or a etter marker of inflammation | 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 s it resolves. |
| by RED CELL AGGRE ITERPRETATION: . ESR is a non-specifi nmune disease, but . An ESR can be affe s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be see bolycythaemia), sign s sickle cells in sick OTE: . ESR and C - reactive . Generally, ESR dod . CRP is not affected . If the ESR is elevat . Women tend to ha . Drugs such as dexi | DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETE fic test because an elevated resu does not tell the health practitic ected by other conditions besides be used to monitor disease activ ematosus W ESR en with conditions that inhibit the hificantly high white blood cell co le cell anaemia) also lower the E re protein (C-RP) are both marker es not change as rapidly as does (I by as many other factors as is ES eed, it is typically a result of two to two a higher ESR, and menstruatio | 22 ^H RY It often indicate oner exactly who is inflammation. vity and respons e normal sedime ount (leucocyto SR. rs of inflammatic CRP, either at th SR, making it a b types of protein on and pregnanc | mm/1st es the presence of inflammati ere the inflammation is in th For this reason, the ESR is ty se to therapy in both of the a entation of red blood cells, s sis), and some protein abno on. The start of inflammation or a etter marker of inflammation s, globulins or fibrinogen. cy can cause temporary eleva | 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 s it resolves. h. |





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| | Dr. Vinay Chc MD (Pathology & Chairman & Const | Microbiology) | Dr. Yugam MD CEO & Consultant | (Pathology) | |
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| | | | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| Test Name | PROTH | | Unit STUDIES (PT/IN | | |
| | ") | | | | |
| PT TEST (PATIENT |) CLOT DETECTION | IROMBIN TIME S | STUDIES (PT/IN | R) | |
| PT TEST (PATIENT by photo optical c PT (CONTROL) by photo optical c |) CLOT DETECTION CLOT DETECTION | IROMBIN TIME S 22.9 ^H | STUDIES (PT/IN SECS | R) | |
| РТ (CONTROL) by рното ортісаl с ISI by рното ортісаl с | CLOT DETECTION CLOT DETECTION CLOT DETECTION NORMALISED RATIO (INR) | IROMBIN TIME S 22.9 ^H 12 | STUDIES (PT/IN SECS | R) | |

INTERPRETATION:-

1.INR is the parameter of choice in monitoring adequacy of oral anti-coagulant therapy. Appropriate therapeutic range varies with the disease and treatment intensity.

2. Prolonged INR suggests potential bleeding disorder /bleeding complications

3. Results should be clinically correlated.

4. Test conducted on Citrated Plasma

| INDICATION | | INTERNATIONAL NORMALIZED RATI (INR) | |
|--|----------------|--|-----------|
| Treatment of venous thrombosis | | | |
| Treatment of pulmonary embolism | | | |
| Prevention of systemic embolism in tissue heart valves | | | |
| Valvular heart disease | Low Intensity | | 2.0 - 3.0 |
| Acute myocardial infarction | | | |
| Atrial fibrillation | | | |
| Bileaflet mechanical valve in aortic position | | | |
| Recurrent embolism | | | |
| Mechanical heart valve | High Intensity | | 2.5 - 3.5 |
| Antiphospholipid antibodies ⁺ | | | |





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The prothrombin time (PT) and its derived measures of prothrombin ratio (PR) and international normalized ratio (INR) are measures of the efficacy of the extrinsic pathway of coagulation. PT test reflects the adequacy of factors I (fibrinogen), II (prothrombin), V, VII, and X. It is used in conjunction with the activated partial thromboplastin time (aPTT) which measures the intrinsic pathway. The common causes of prolonged prothrombin time are :

1.Oral Anticoagulant therapy.

2.Liver disease.

3.Vit K. deficiency.

4. Disseminated intra vascular coagulation.

5.Factor 5, 7, 10 or Prothrombin dificiency

RECHECKED.



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| Test Name | | | Value | Unit | Biological Reference interval |
| | | CLINI | CAL CHEMIST | FRY/BIOCHEMIST | 'RY |
| | | | GLUCOSE | FASTING (F) | |
| GLUCOSE FASTING | | GOD-POD) | 120.35 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 |

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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| | Dr. Vinay Cl MD (Pathology & Chairman & Cor | | Dr. Yugam MD (CEO & Consultant | (Pathology) |
|--|---|---------------------|---------------------------------------|---|
| NAME | : Mr. VATAN ANAND | | | |
| AGE/ GENDER | : 31 YRS/MALE | PATIE | ENT ID | : 1713359 |
| COLLECTED BY | : | REG. N | NO./LAB NO. | : 012412310041 |
| REFERRED BY | : | REGIS | TRATION DATE | : 31/Dec/2024 07:54 PM |
| BARCODE NO. | :01523274 | COLLI | ECTION DATE | : 31/Dec/2024 09:16PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | : 31/Dec/2024 09:17PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PROFILE | : BASIC | |
| CHOLESTEROL TO by CHOLESTEROL O | | 134.23 | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| TRIGLYCERIDES: S by GLYCEROL PHOSE | ERUM PHATE OXIDASE (ENZYMATIC) | 74.15 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTERO by SELECTIVE INHIBIT | L (DIRECT): SERUM TON | 62.57 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTERO | | 56.83 | 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 CHOLES' by CALCULATED, SPE | | 71.66 | mg/dL | OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| VLDL CHOLESTERO | | 14.83 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SEE | RUM ectrophotometry | 342.61 ^L | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HI by CALCULATED, SPE | DL RATIO: SERUM | 2.15 | 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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| | | h opra & Microbiology) nsultant Pathologi | | (Pathology) |
|---------------------------------------|--------------------------|--|--------------------------|---|
| NAME | : Mr. VATAN ANAND | | | |
| AGE/ GENDER | : 31 YRS/MALE | | PATIENT ID | : 1713359 |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANT' | Т | |
| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S | | 0.91 | 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 | 1.19 ^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.

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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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMI | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | LIVER | FUNCTIO | N TEST (COMPLETE) | |
| BILIRUBIN TOTAL by DIAZOTIZATION, SH | : SERUM PECTROPHOTOMETRY | 1.51 ^H | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | C (CONJUGATED): SERUM | 0.73 ^H | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRE by CALCULATED, SPE | CT (UNCONJUGATED): SERUM | 0.78 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PY | RIDOXAL PHOSPHATE | 82.26 ^H | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PY | RIDOXAL PHOSPHATE | 54.25 ^H | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: S by CALCULATED, SPE | | 1.52 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPI by PARA NITROPHEN PROPANOL | HATASE: SERUM yl phosphatase by amino methyl | 200.91 ^H | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMY by SZASZ, SPECTROF | L TRANSFERASE (GGT): SERUM | 91.42 ^H | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: by BIURET, SPECTRO | SERUM | 6.85 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL G | | 3.58 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM | 1 | 3.27 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM by CALCULATED, SPE | M | 1.09 | RATIO | 1.00 - 2.00 |

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

| DRUG HEPATOTOXICITY | > 2 |
|--|----------------------------|
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS | 1.4 - 2.0 |
| INTRAHEPATIC CHOLESTATIS | > 1.5 |
| HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS | > 1.3 (Slightly Increased) |





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

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

DECREASED:

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

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

| PROGNOSTIC SIGNIFICANCE: | |
|--------------------------|--|
| | |

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



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| | Dr. Vinay Cho MD (Pathology & M Chairman & Consu | licrobiology) | Dr. Yugam C MD (Pa CEO & Consultant Pa | athology) |
| NAME | : Mr. VATAN ANAND | | | |
| AGE/ GENDER | : 31 YRS/MALE | PAT | IENT ID | : 1713359 |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AN | ABALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | KIDNE | Y FUNCTION T | EST (COMPLETE) | |
| UREA: SERUM | IATE DEHYDROGENASE (GLDH) | 26.36 | mg/dL | 10.00 - 50.00 |
| CREATININE: SER | UM | 0.76 | mg/dL | 0.40 - 1.40 |
| by ENZYMATIC, SPEC | ROGEN (BUN): SERUM | 12.32 | mg/dL | 7.0 - 25.0 |
| by CALCULATED, SPE | ECTROPHOTOMETRY | | - | |
| BLOOD UREA NITE RATIO: SERUM | ROGEN (BUN)/CREATININE | 16.21 | RATIO | 10.0 - 20.0 |
| by CALCULATED, SPE | | 04.00 | DATIO | |
| UREA/CREATININ by CALCULATED, SPE | E RATIO: SERUM ECTROPHOTOMETRY | 34.68 | RATIO | |
| URIC ACID: SERUM | | 3.62 | mg/dL | 3.60 - 7.70 |
| by URICASE - OXIDAS CALCIUM: SERUM | SE PERUNIDASE | 8.74 | mg/dL | 8.50 - 10.60 |
| by ARSENAZO III, SPE PHOSPHOROUS: SE | | 3.58 | mg/dL | 2.30 - 4.70 |
| | DATE, SPECTROPHOTOMETRY | 3.30 | iiig/ uL | 2.30 - 4.70 |
| <u>ELECTROLYTES</u> | | | | |
| SODIUM: SERUM by ISE (ION SELECTIV | /E ELECTRODE) | 138.6 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERU | М | 3.99 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIN CHLORIDE: SERUM | 1 | 103.95 | mmol/L | 90.0 - 110.0 |
| by ISE (ION SELECTIN | /E ELECTRODE) MERULAR FILTERATION RATE | | | |
| | IERULAR FILTERATION RATE | 123.2 | | |
| (eGFR): SERUM | IEROLAR FILTERATION RALE | 123.2 | | |
| by CALCULATED INTERPRETATION: | | | | |
| INTERFRETATION. | | | | |

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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| | ٢ | Dr. Vinay Chopra ID (Pathology & Micr hairman & Consultar | obiology) | | am Chopra 1D (Pathology) ant Pathologist | | | |
|---|---|---|--|---|---|-------------------------|--------------|-----------|
| IAME | : Mr. VATAN A | NAND | | | | | | |
| AGE/ GENDER | : 31 YRS/MALE | | PA | ATIENT ID | : 1713359 | | | |
| COLLECTED BY | : | | RI | EG. NO./LAB NO. | :012412 | 310041 | | |
| EFERRED BY | : | | RI | EGISTRATION DAT | E : 31/Dec/2 | 2024 07:54 | PM | |
| ARCODE NO. | :01523274 | | CO | DLLECTION DATE | : 31/Dec/2 | 2024 09:16 | PM | |
| LIENT CODE. | : KOS DIAGNOS | TIC LAB | | EPORTING DATE | : 31/Dec/2 | 2024 09:17 | 'PM | |
| LIENT ADDRESS | | OLSON ROAD, AMB | | | | | | |
| Fest Name | | | Value | Unit | B | Biological | Reference i | nterval |
| Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia | tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispression superimposed on | reatinine production ocorticoids) ED CREATININE LEVI oportionately more for renal disease. | LS: |) (e.g. obstructive ur | opathy). | | | |
| 3. Reduced muscle m 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<2 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 of 8. Pregnancy. DECREASED RATIO (<2 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther <u>ESTIMATED GLOMERU</u> <u>G1</u> <u>G2</u> | ass (subnormal ci tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on 0:1) WITH DECRE. Disis. Ind starvation. 2: creased urea synt urea rather than monemias (urea i f inappropiate ar 0:1) WITH INCREA py (accelerates co eleases muscle cr who develop rena sis (acetoacetate creased BUN/crea apy (interferes w ULAR FILTERATION Norm Kid | reatinine production ocorticoids) ED CREATININE LEVI oportionately more in renal disease. ASED BUN : thesis. creatinine diffuses of s virtually absent in tidiuretic harmone) ASED CREATININE: onversion of creating eatinine). al failure. causes false increase atinine ratio). ith creatinine measu RATE: DESCRIPTION hal kidney function ney damage with | Fills: han creatinine but of extracelliblood). due to tubular e to creatinine) e in creatinine rement). | ular fluid). secretion of urea. with certain method <u>min/1.73m2)</u> >90 | ologies,resulting ASSOCIATED FINI No proteinur Presence of Pro | DINGS ria itein , | ratio when o | dehydrati |
| Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u> | ass (subnormal ci tetracycline, gluc 0:1) WITH ELEVAT (BUN rises dispro superimposed on 0:1) WITH DECRE. Diss. Ind starvation. 2: creased urea synt urea rather than monemias (urea i f inappropiate ar 0:1) WITH INCREA py (accelerates co eleases muscle cr who develop rena sis (acetoacetate creased BUN/crea apy (interferes w ULAR FILTERATION Norm Kid Norm | reatinine production ocorticoids) ED CREATININE LEVI oportionately more a renal disease. ASED BUN : thesis. creatinine diffuses of s virtually absent in tidiuretic harmone) ASED CREATININE: onversion of creating eatinine). al failure. causes false increase atinine ratio). ith creatinine measu RATE: DESCRIPTION nal kidney function ney damage with rmal or high GFR. | Fill isite isite < | ular fluid). secretion of urea. with certain method min/1.73m2) >90 | ologies,resulting ASSOCIATED FIN No proteinu | DINGS ria itein , | ratio when o | dehydrati |
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| NAME | : Mr. VATAN ANAND | | |
| | MD (Pathology & Mi Chairman & Consult | crobiology) MI | D (Pathology) |
| | Dr. Vinay Chop | ra 📔 Dr. Yuga | m Chopra |

COMMENTS:

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

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

ADVICE:

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





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | | Dr. Vinay Ch MD (Pathology & Chairman & Cor | & Microbiology) | | (Pathology) |
|--|---|--|--|---|--|
| IAME | : Mr. VATAN | N ANAND | | | |
| GE/ GENDER | : 31 YRS/MA | LE | | PATIENT ID | : 1713359 |
| OLLECTED BY | : | | | REG. NO./LAB NO. | : 012412310041 |
| EFERRED BY | : | | | REGISTRATION DATE | : 31/Dec/2024 07:54 PM |
| ARCODE NO. | :01523274 | | | COLLECTION DATE | : 31/Dec/2024 09:16PM |
| LIENT CODE. | : KOS DIAGN | IOSTIC LAB | | REPORTING DATE | : 31/Dec/2024 09:54PM |
| LIENT ADDRESS | : 6349/1, NI | CHOLSON ROAD, | AMBALA CANT | Т | |
| Fest Name | | | Value | Unit | Biological Reference interval |
| | | | TUMO | UR MARKER | |
| | | АТДИА Б | | UK MAKKEK IN (AFP): TUMOR MA | DVFD |
| | | ALP NA F | 2.772 | | 0.0 - 10.0 |
| | | | 6.116 | no/mi | |
| UMOUR MARKER by CMIA (CHEMILUMII VTERPRETATION: . Alpha-fetoprotein epatocellular carcir | : SERUM VESCENT MICRON (AFP) is a glyco noma, hepatobl | oprotein that is pr lastoma, and nons | issay) oduced in early seminomatous c | erm cell tumors of the ovary | yolk sac and by a variety of tumors including y and testis (eq, yolk sac and embryonal |
| "UMOUR MARKER by CMIA (CHEMILUMII NTERPRETATION: Alpha-fetoprotein epatocellular carcir arcinoma). Most stu oncentrations are fi- lt is a major comp irculation, falling to AFP is elevated du Neonates have ma ver their first year. Concentrations of irchosis), gastrointe AUTION: It is not recomme It is best used for hemo/radiotherapy Failure of the AFP Elevation of AFP a IOTE: | : SERUM (AFP) is a glyco oma, hepatobl dies report ele ound in 50% to onent of fetal p 100 ng/ mL by ring pregnancy inkedly elevated AFP above the estinal tract tur nded to use thi monitoring of t | pprotein that is pr lastoma, and nons evated AFP concer 70% of patients v plasma, reaching a v 150 days and rea v. Persistence of A d AFP levels (>100 reference range a mors and, along w s assay for the ini cherapy and to loc to normal by app suggests tumor rea | ASSAY) roduced in early seminomatous g ntrations in apprivith non semino a peak concentra aching adult valu FP in the mothe 0,000 ng/mL) that also have been for vith carcinoemb tial diagnosis of bk for relapse of proximately 1 mo currence; howe | fetal life by the liver, GIT & g germ cell tumors of the ovary oximately 70% of patients w matous testicular tumors. ation of 3mg/mL at 12 weeks ues by end of 1 year. r following birth is a rare her at rapidly fall to below 100 ng ound in serum of patients wi ryonic antigen in ataxia tela the above mentioned maligi malignancies that have been onth after surgery suggests the ver, tumors originally product | yolk sac and by a variety of tumors including y and testis (eg, yolk sac and embryonal ith hepatocellular carcinoma. Elevated AFP of gestation. Following birth, it clears from editary condition. g/mL by 150 days and gradually return to norm th benign liver disease (eg, viral hepatitis, ngiectasia. nancies. n surgically excised or cleared with he presence of residual tumor. ing AFP may recur without an increase in AFP. |
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KOS Diagnostic Lab (A Unit of KOS Healthcare)





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