



| | Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta | crobiology) | Dr. Yugam MD (CEO & Consultant | (Pathology) |
|--|---|-------------------|---------------------------------------|--|
| NAME | : Mr. BALVIR SINGH | | | |
| AGE/ GENDER | : 39 YRS/MALE | P | ATIENT ID | : 1119146 |
| COLLECTED BY | : | R | EG. NO./LAB NO. | : 012408200004 |
| REFERRED BY | : | R | EGISTRATION DATE | : 20/Aug/2024 07:16 AM |
| BARCODE NO. | : 01515332 | C | OLLECTION DATE | : 20/Aug/2024 08:51AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | R | EPORTING DATE | : 20/Aug/2024 09:01AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMI | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWAS | | NESS PANEL: 1.5 | |
| | CON | MPLETE BLOC | DD COUNT (CBC) | |
| RED BLOOD CELLS (R | BCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (HB) | | 15.4 | gm/dL | 12.0 - 17.0 |
| by CALORIMETRIC RED BLOOD CELL (RB | C) COUNT | 5.34 ^H | Millions/c | mm 3.50 - 5.00 |
| by HYDRO DYNAMIC F | OCUSING, ELECTRICAL IMPEDENCE | | | |
| PACKED CELL VOLUM by CALCULATED BY AU | E (PCV) UTOMATED HEMATOLOGY ANALYZER | 46.5 | % | 40.0 - 54.0 |
| MEAN CORPUSCULAR | R VOLUME (MCV) | 87.2 | fL | 80.0 - 100.0 |
| | UTOMATED HEMATOLOGY ANALYZER R HAEMOGLOBIN (MCH) | 28.8 | pg | 27.0 - 34.0 |
| by CALCULATED BY A | JTOMATED HEMATOLOGY ANALYZER | | | |
| | R HEMOGLOBIN CONC. (MCHC) JTOMATED HEMATOLOGY ANALYZER | 33 | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIBUTI | ON WIDTH (RDW-CV) | 13.7 | % | 11.00 - 16.00 |
| | UTOMATED HEMATOLOGY ANALYZER ON WIDTH (RDW-SD) | 44.5 | fL | 35.0 - 56.0 |
| by CALCULATED BY A | UTOMATED HEMATOLOGY ANALYZER | | | |
| MENTZERS INDEX | | 16.33 | RATIO | BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13. |
| GREEN & KING INDEX | K | 22.34 | RATIO | BETA THALASSEMIA TRAIT:<= 65 |
| by CALCULATED | | | | IRON DEFICIENCY ANEMIA: > 65 |
| WHITE BLOOD CELLS | | | | |
| TOTAL LEUCOCYTE CO | JUNT (TLC) BY SF CUBE & MICROSCOPY | 9330 | /cmm | 4000 - 11000 |
| NUCLEATED RED BLO | · / | NIL | | 0.00 - 20.00 |
| by AUTOMATED 6 PAR MICROSCOPY | T HEMATOLOGY ANALYZER & | | | |
| NUCLEATED RED BLO | | NIL | % | < 10 % |
| by AUTOMATED 6 PAR MICROSCOPY | T HEMATOLOGY ANALYZER & | | | |
| DIFFERENTIAL LEUCO | <u>CYTE COUNT (DLC)</u> | | | |

57 $\sim 10^{-10}$



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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. BALVIR SINGH AGE/ GENDER : 39 YRS/MALE **PATIENT ID** :1119146 :012408200004 **COLLECTED BY** REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 20/Aug/2024 07:16 AM **BARCODE NO.** :01515332 **COLLECTION DATE** : 20/Aug/2024 08:51AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 20/Aug/2024 09:01AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval NEUTROPHILS** 71^H % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 23 20 - 40 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % **EOSINOPHILS** 1 - 61 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 6624 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2146 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 93 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 466 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 281000 150000 - 450000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.10 - 0.36 0.37^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE **MEAN PLATELET VOLUME (MPV)** 13^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 137000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) % 11.0 - 45.0 48.5^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.4 % 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

Dr. Vinay Chopra

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | GL | YCOSYLATED HAEMOG | LOBIN (HBA1C) | |
| GLYCOSYLATED HAEM(WHOLE BLOOD by HPLC (HIGH PERFORM | DGLOBIN (HbA1c): | 5.5 | % | 4.0 - 6.4 |
| ESTIMATED AVERAGE F by HPLC (HIGH PERFORM INTERPRETATION: | PLASMA GLUCOSE IANCE LIQUID CHROMATOGRAPHY) | 111.15 | mg/dL | 60.00 - 140.00 |
| | AS PER AMERICAN DIAE | ETES ASSOCIATION (ADA): | | |
| | FERENCE GROUP | GLYCOSYLATED H | EMOGLOGIB (HBAIC) in % | |
| | etic Adults >= 18 years | | <5.7 | |
| | Risk (Prediabetes) | / | 5.7 – 6.4 | |
| Dia | gnosing Diabetes | | >= 6.5 | |
| | | ٨٩٥ | > 19 Years | |

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

Age < 19 Years

Actions Suggested:

Goal of therapy

>8.0

<7.5

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.





Therapeutic goals for glycemic control

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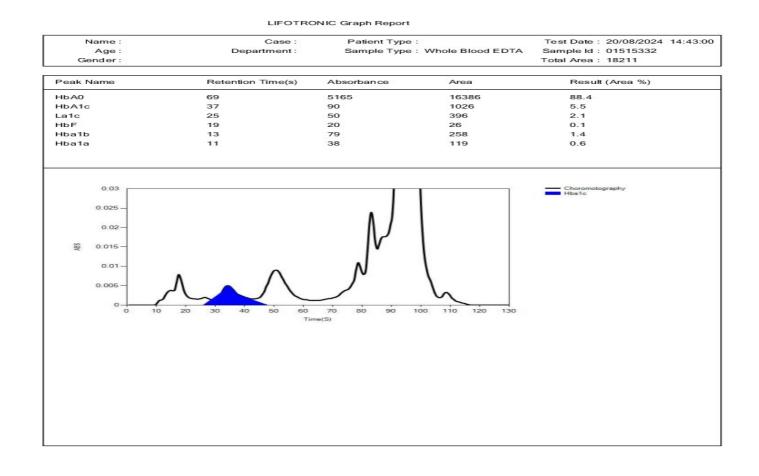


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| Test Name | Va | lue Unit | Biological Reference interval |





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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| Test Name | | Value | Unit | Biological Reference interval |
| | FRYTHR | OCYTE SEDIMEN | TATION RATE (ESF | 2) |
| by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specifimmune disease, but 2. An ESR can be affer as C-reactive protein 3. This test may also l systemic lupus erythe CONDITION WITH LOV A low ESR can be see | MENTATION RATE (ESR) <i>GREN AUTOMATED METHOD</i> ic test because an elevated result of does not tell the health practitione cted by other conditions besides in be used to monitor disease activity ematosus N ESR n with conditions that inhibit the n | 3 often indicates the p er exactly where the iflammation. For thi y and response to th normal sedimentatic | mm/1st hi resence of inflammati inflammation is in the s reason, the ESR is typ erapy in both of the at n of red blood cells, su | r 0 - 20 on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as |
| IOTE: . ESR and C - reactive . Generally, ESR doe e. CRP is not affected . If the ESR is elevate . Women tend to ha . Drugs such as dext | e cell anaemia) also lower the ESR e protein (C-RP) are both markers of s not change as rapidly as does CR by as many other factors as is ESR , ed, it is typically a result of two typ ve a higher ESR, and menstruation ran, methyldopa, oral contraceptive d quinine may decrease it | of inflammation. P, either at the start making it a better n bes of proteins, glob and pregnancy can (| harker of inflammation ulins or fibrinogen. cause temporary elevat | |
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| Test Name | | Value | Unit | Biological Reference interval |
| GLUCOSE FASTING (by glucose oxidas | SE - PEROXIDASE (GOD-POD) | 106.75 ^H | mg/dL | PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 |
| <u>INTERPRETATION</u> IN ACCORDANCE WIT | HAMERICAN DIABETES ASSOCIA lucose level below 100 mg/dl is lucose level between 100 - 125 | considered normal. mg/dl is considered a | as glucose intolerant or | prediabetic. A fasting and post-prandial blood |
| 1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g | ion of 75 gms of glucose) is reco | is highly suggestive of | of diabetic state. A repe | at post-prandial is strongly recommended for al atory for diabetic state. |
| 1. A fasting plasma g 2. A fasting plasma g test (after consumpt 3. A fasting plasma g | ion of 75 gms of glucose) is reco lucose level of above 125 mg/dl | is highly suggestive of | of diabetic state. A repe | at post-prandial is strongly recommended for al atory for diabetic state. |





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| | | y & Microbiology) | Dr. Yugam MD O & Consultant | (Pathology) |
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| Test Name | | Value | Unit | Biological Reference interval |
| | | LIPID PROFILE : BA | SIC | |
| CHOLESTEROL TOTA by CHOLESTEROL O | | 260.66 ^H | mg/dL | OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240 |
| TRIGLYCERIDES: SEF by GLYCEROL PHOSE | RUM PHATE OXIDASE (ENZYMATIC) | 551.36 ^H | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0 |
| HDL CHOLESTEROL (by SELECTIVE INHIBIT | | 61.76 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROL: S by CALCULATED, SPE | | NOT CALCULATED | 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 CHOLESTE by calculated, spi | | 198.9 ^H | 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: by CALCULATED, SPE | | NOT CALCULATED | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SERUI by CALCULATED, SPE | M | NOT CALCULATED | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HDL by CALCULATED, SPE | RATIO: SERUM | 4.22 | 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: SER by calculated, spe | | NOT CALCULATED | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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| Test Name | | Value | Unit | Biological Reference interval |
| TRIGLYCERIDES/HD | L RATIO: SERUM ECTROPHOTOMETRY | 8.93 ^H | RATIO | 3.00 - 5.00 |
| NOTE 2 | | | IGLYCERIDES VALUE >400 NOT RELIABLE | mg/dL THE CALCULATED VALUES OF LDL A |

ADVICE

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.

KINDLY CORRELATE CLINICALLY

 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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| CLIENT ADDRESS | . 05457 I, MEHOLSON ROAD, A | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | FR FUNCTION | TEST (COMPLETE) | |
| BILIRUBIN TOTAL: S | ERUM | 0.61 | mg/dL | INFANT: 0.20 - 8.00 |
| | | 0.1/ | | ADULT: 0.00 - 1.20 |
| | CONJUGATED): SERUM | 0.16 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRECT | C (UNCONJUGATED): SERUM | 0.45 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PY | RIDOXAL PHOSPHATE | 38.6 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM | YRIDOXAL PHOSPHATE | 103.5 ^H | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SER by CALCULATED, SPE | M | 0.37 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHA | | 98.43 | U/L | 40.0 - 130.0 |
| | L TRANSFERASE (GGT): SERUM PHTOMETRY | 100.58 ^H | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SE | ERUM | 7.27 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL G | | 4.51 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM | ECTROPHOTOMETRY | 2.76 | gm/dL | 2.30 - 3.50 |
| | | 4.40 | DATIO | 1 00 0 00 |

Dr. Vinay Chopra

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

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

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

INCREASED:

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

1.63





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

RATIO

1.00 - 2.00



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





| | Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path | | (Pathology) |
|--------------------|--|--------------------------|-------------------------------|
| NAME | : Mr. BALVIR SINGH | | |
| AGE/ GENDER | : 39 YRS/MALE | PATIENT ID | : 1119146 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012408200004 |
| REFERRED BY | : | REGISTRATION DATE | : 20/Aug/2024 07:16 AM |
| BARCODE NO. | : 01515332 | COLLECTION DATE | : 20/Aug/2024 08:51AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPORTING DATE | : 20/Aug/2024 11:20AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA C | ANTT | |
| Test Name | Valu | e 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).

| GOOD PROGNOSTIC SIGN 0.3 - 0.6 | |
|--|--|
| | |
| POOR PROGNOSTIC SIGN 1.2 - 1.6 | |



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

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| | Dr. Vinay Ch MD (Pathology & Chairman & Cor | | Dr. Yugam MD CEO & Consultant | (Pathology) |
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| Test Name | | Value | Unit | Biological Reference interval |
| | кі | DNEY FUNCTION | TEST (COMPLETE) | |
| UREA: SERUM | | 40.3 | mg/dL | 10.00 - 50.00 |
| - | NATE DEHYDROGENASE (GLDH) | | · · · | |
| CREATININE: SERUN | | 0.45 | mg/dL | 0.40 - 1.40 |
| by ENZYMATIC, SPEC BLOOD UREA NITRC | | 18.83 | mg/dL | 7.0 - 25.0 |
| by CALCULATED, SPE | | 10.00 | ing/ dE | 7.0 23.0 |
| BLOOD UREA NITRO | GEN (BUN)/CREATININE | 41.84 ^H | RATIO | 10.0 - 20.0 |
| RATIO: SERUM | | | | |
| UREA/CREATININE F | ECTROPHOTOMETRY RATIO: SERLIM | 89.56 | RATIO | |
| by CALCULATED, SPE | | 07.30 | RATIO | |
| URIC ACID: SERUM | | 5.47 | mg/dL | 3.60 - 7.70 |
| by URICASE - OXIDAS | SE PEROXIDASE | 0.05 | <i>.</i> | 0.50 40 40 |
| CALCIUM: SERUM by ARSENAZO III, SPE | | 9.95 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SEF | | 4.17 | mg/dL | 2.30 - 4.70 |
| | DATE, SPECTROPHOTOMETRY | | | 2.00 |
| ELECTROLYTES | | | | |
| SODIUM: SERUM | | 142.9 | mmol/L | 135.0 - 150.0 |
| by ISE (ION SELECTIV | | | | |
| POTASSIUM: SERUM | | 4.2 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIV CHLORIDE: SERUM | E ELECTRODE) | 107.18 | mmol/L | 90.0 - 110.0 |
| by ISE (ION SELECTIV | /E ELECTRODE) | 107.10 | minul/L | 70.0 - 110.0 |
| | RULAR FILTERATION RATE | | | |
| ESTIMATED GLOME | RULAR FILTERATION RATE | 137.4 | | |
| (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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| Test Name | | Value Unit | Biological Reference interval |
| Acute tubular necr Low protein diet at | nd starvation. | | |
| Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Nhenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in | Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). | ent in blood). ione) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo | logies,resulting in normal ratio when dehydrati |
| Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin thei | Acreased urea synthesis. (urea rather than creatinine diffu- monemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. : sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: | ent in blood). none) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo neasurement). | logies,resulting in normal ratio when dehydrati |
| Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Nhenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their ESTIMATED GLOMERI CKD STAGE | Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION | ent in blood). Hone) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo heasurement). GFR (mL/min/1.73m2) | ISSOCIATED FINDINGS |
| Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Thenacimide thera Rhabdomyolysis (r Muscular patients INAPPROPIATE RATIO Diabetic ketoacido should produce an in Cephalosporin their ESTIMATED GLOMERI CKD STAGE G1 | Acreased urea synthesis. (urea rather than creatinine diffu- monemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: | ent in blood). ione) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo neasurement). GFR (mL/min/1.73m2) Fion >90 | ISSOCIATED FINDINGS No proteinuria |
| Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido Should produce an in Cephalosporin the CETIMATED GLOMERI CKD STAGE | Acreased urea synthesis. (urea rather than creatinine diffu- imonemias (urea is virtually abse- of inappropiate antidiuretic harm 10:1) WITH INCREASED CREATININ py (accelerates conversion of cre- eleases muscle creatinine). who develop renal failure. sis (acetoacetate causes false in creased BUN/creatinine ratio). rapy (interferes with creatinine m JLAR FILTERATION RATE: DESCRIPTION | ent in blood). ione) due to tubular secretion of urea. JE: eatine to creatinine). crease in creatinine with certain methodo neasurement). <u>GFR (mL/min/1.73m2)</u> th >90 th >90 | ISSOCIATED FINDINGS |

| G2 | Kidney damage with | >90 | Presence of Protein |
|-----|--------------------------|--------|-----------------------|
| | normal or high GFR | | Albumin or cast in ur |
| 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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| <u> </u> | | | |
| 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

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| Test Name | | Value | Unit | Biological Reference interval |
| | | IRON PROF | ILE | |
| IRON: SERUM by FERROZINE, SPEC | TROPHOTOMETRY | 96.6 | μg/dL | 59.0 - 158.0 |
| :SERUM | N BINDING CAPACITY (UIBC) | 244 | μg/dL | 150.0 - 336.0 |
| by FERROZINE, SPEC TOTAL IRON BINDIN :SERUM | G CAPACITY (TIBC) | 340.6 | μg/dL | 230 - 430 |
| by SPECTROPHOTOM %TRANSFERRIN SAT by CALCULATED, SPE | | 28.36 | % | 15.0 - 50.0 |
| TRANSFERRIN: SERL by SPECTROPHOTOM INTERPRETATION:- | | 241.83 | mg/dL | 200.0 - 350.0 |
| VARIAR | | | I DEFICIENCY ANEMIA | Δ ΤΗΔΙΔSSEMIA α/β ΤΒΔΙΤ |

| 1/4 0/4 0/ 50 | | | |
|-------------------------------|---------------------------|------------------------|-----------------------|
| VARIABLES | ANEMIA OF CHRONIC DISEASE | IRON DEFICIENCY ANEMIA | THALASSEMIA α/β TRAIT |
| SERUM IRON: Normal to Reduced | | Reduced | Normal |
| TOTAL IRON BINDING CAPACITY: | Decreased | Increased | Normal |
| % TRANSFERRIN SATURATION: | Decreased | Decreased < 12-15 % | Normal |
| SERUM FERRITIN: | Normal to Increased | Decreased | Normal or Increased |
| IDON. | | | |

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

 It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.
 TRANSFERRIN SATURATION:

1. Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.





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| Test Name | | | Unit | Biological Reference interval |
| | | | | |
| | THYR | ROID FUN | ICTION TEST: TOTAL | |
| TRIIODOTHYRONINE by CMIA (CHEMILUMIN | E (T3): SERUM iescent microparticle immunoassay) | 1.065 | ng/mL | 0.35 - 1.93 |
| THYROXINE (T4): SE by CMIA (CHEMILUMIN | RUM iescent microparticle immunoassay) | 9.13 | µgm/dL | 4.87 - 12.60 |
| by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai | circadian variation, reaching peak levels betwo | een 2-4 a.m a Julates the pr | roduction and secretion of the me | 0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or |

| CLINICAL CONDITION | Т3 | T4 | TSH |
|------------------------------|-----------------------|-----------------------|---------------------------------|
| Primary Hypothyroidism: | Reduced | Reduced | Increased (Significantly) |
| Subclinical Hypothyroidism: | Normal or Low Normal | Normal or Low Normal | High |
| Primary Hyperthyroidism: | Increased | Increased | Reduced (at times undetectable) |
| Subclinical Hyperthyroidism: | Normal or High Normal | Normal or High Normal | Reduced |

LIMITATIONS:-

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

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

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

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

| TRIIODOTHY | (RONINE (T3) | THYROXINE (T4) | | THYROID STIMUL | ATING HORMONE (TSH) |
|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|------------------------------|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (µg/dL) | Age | Reference Range (μIU/mL) |
| 0-7 Days | 0.20 - 2.65 | 0 - 7 Days | 5.90 - 18.58 | 0 - 7 Days | 2.43 - 24.3 |
| 7 Days - 3 Months | 0.36 - 2.59 | 7 Days - 3 Months | 6.39 - 17.66 | 7 Days - 3 Months | 0.58 - 11.00 |
| 3 - 6 Months | 0.51 - 2.52 | 3 - 6 Months | 6.75 - 17.04 | 3 Days – 6 Months | 0.70 - 8.40 |





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| rest warne | | | value | Unit | • | Biological Reference Interv |
|---------------------|---------------|----------------------|-------------------|---------------------|-------------|-----------------------------|
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6 – 12 Months | 0.70 - 7.00 | |
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11- 19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87-13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35-5.50 | |
| | RECOM | MENDATIONS OF TSH LE | EVELS DURING PREC | SNANCY (µIU/mL) | | |
| | 1st Trimester | | | 0.10 - 2.50 | | |
| | 2nd Trimester | | | 0.20 - 3.00 | | |
| | 3rd Trimester | | | 0.30 - 4.10 | | |
| | | | | | | |

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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| Test Name | V | alue Unit | Biological Reference interval |

HEPATITIS C VIRUS (HCV) ANTIBODIES SCREENING

HEPATITIS C ANTIBODY (HCV) TOTAL RESULT

NON - REACTIVE

by IMMUNOCHROMATOGRAPHY

INTERPRETATION:

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

1. Anti HCV total antibody assay identifies presence IgG antibodies in the serum. It is a useful screening test with a specificity of nearly 99%. 2. It becomes positive approximately 24 weeks after exposure. The test can not isolate an active ongoing HCV infection from an old infection that has been cleared. All positive results must be confirmed for active disease by an HCV PCR test .

FALSE NEGATIVE RESULTS SEEN IN: 1.Window period

2.Immunocompromised states.





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| | Value | Unit | Biological Reference interval |
| ANTI HUMAN IMMUNOD | EFICIENCY VIRU | JS (HIV) ANTIBODIES H | HIV (1 & 2) SCREENING |
| TIGEN RESULT | NON - REA | | |
| | MD (Pathology & Chairman & Cor : Mr. BALVIR SINGH : 39 YRS/MALE : : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, | : Mr. BALVIR SINGH : 39 YRS/MALE : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value ANTI HUMAN IMMUNODEFICIENCY VIRU | MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mr. BALVIR SINGH : 39 YRS/MALE PATIENT ID : REG. NO./LAB NO. : REGISTRATION DATE : 01515332 COLLECTION DATE : 01515332 COLLECTION DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT : 6349/1, NICHOLSON ROAD, AMBALA CANTT ANTI HUMAN IMMUNODEFICIENCY VIRUS (HIV) ANTIBODIES F |

3. The test is used for routine serologic screening of patients at risk for HIV-1 or HIV-2 infection.

4.All screening ELISA assays for HIV antibody detection have high sensitivity but have low specificity.

5.At this laboratory, all positive samples are cross checked for positivity with two alternate assays prior to reporting.

NOTE:-

1.Confirmatory testing by Western blot is recommended for patients who are reactive for HIV by this assay.

2. Antibodies against HIV-1 and HIV-2 are usually not detectable until 6 to 12 weeks following exposure (window period) and are almost always detectable by 12 months.

3. The test is not recommended for children born to HIV infected mothers till the child turns two years old (as HIV antibodies may be transmitted passively to the child trans-placentally).

FALSE NEGATIVE RESULT SEEN IN:

1. Window period

2.Severe immuno-suppression including advanced AIDS.





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| | Dr. Vinay Chop MD (Pathology & M Chairman & Consult | icrobiology) MD | (Pathology) |
|----------------|---|--------------------------|-------------------------------|
| NAME | : Mr. BALVIR SINGH | | |
| AGE/ GENDER | : 39 YRS/MALE | PATIENT ID | : 1119146 |
| COLLECTED BY | : | REG. NO./LAB NO. | : 012408200004 |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | IBALA CANTT | |
| Test Name | | Value Unit | Biological Reference interval |

HEPATITIS B SURFACE ANTIGEN (HBsAg) SCREENING

HEPATITIS B SURFACE ANTIGEN (HBsAg)

NON REACTIVE

RESULT by IMMUNOCHROMATOGRAPHY

INTERPRETATION:-

1.HBsAG is the first serological marker of HBV infection to appear in the blood (approximately 30-60 days after infection and prior to the onset of clinical disease). It is also the last viral protein to disappear from blood and usually disappears by three months after infection in self limiting acute Hepatitis B viral infection.

2.Persistence of HBsAg in blood for more than six months implies chronic infection. It is the most common marker used for diagnosis of an acute Hepatitis B infection but has very limited role in assessing patients suffering from chronic hepatitis.

FALSE NEGATIVE RESULT SEEN IN:

1.Window period.

2. Infection with HBsAg mutant strains

3.Hepatitis B Surface antigen (HBsAg) is the earliest indicator of HBV infection. Usually it appears in 27 - 41 days (as early as 14 days). 4.Appears 7 - 26 days before biochemical abnormalities. Peaks as ALT rises. Persists during the acute illness. Usually disappears 12- 20 weeks after the onset of symptoms / laboratory abnormalities in 90% of cases.

5.Is the most reliable serologic marker of HBV infection. Persistence > 6 months defines carrier state. May also be found in chronic infection. Hepatitis B vaccination does not cause a positive HBsAg. Titers are not of clinical value.

NOTE:-

1.All reactive HBsAG Should be reconfirmed with neutralization test(HBsAg confirmatory test).

2.Anti - HAV IgM appears at the same time as symptoms in > 99% of cases, peaks within the first month, becomes nondetectable in 12 months (usually 6 months). Presence confirms diagnosis of recent acute infection.





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|---|---|-------------------------------|-----------------------------|--|--|
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAI | D, AMBALA CANTT | | | |
| Test Name | | Value | Unit | Biological Reference interval | |
| | | VDRL | | | |
| VDRL | | NON REACTIVE | | NON REACTIVE | |
| by IMMUNOCHROMAT INTERPRETATION: | UGRAPHY | | | | |
| 1.Does not become p | oositive until 7 - 10 days after a | ppearance ofchancre. | | | |
| 2.High titer (>1:16) - 3.Low titer (<1:8) - bi | active disease. iological falsepositive test in 90 | % cases or due to late or lat | e latent syphillis. | | |
| 4.Treatment of prima | ary syphillis causes progressive | decline tonegative VDRL w | ithin 2 years. | | |
| | licates relapse, reinfection, or tr e in early primary, late latent, a | | | | |
| | ly reactive tests should always l | | | emal antibody absorptiontest). | |
| SHORTTERM FALSE P | OSITIVE TEST RESULTS (<6 MON | THS DURATION) MAY OCCUF | RIN: | | |
| 1.Acute viral illnesse | s (e.g., hepatitis, measles, infe | | | | |
| 2.M. pneumoniae; C 3.Some immunizatio | hlamydia; Malaria infection. ns | | | | |
| 4.Pregnancy (rare) | | | | | |
| | | | | | |

LONGTERM FALSE POSITIVE TEST RESULTS (>6 MONTHS DURATION) MAY OCCUR IN:

- 1. Serious underlying disease e.g., collagen vascular diseases, leprosy, malignancy.
- 2.Intravenous drug users.
- 3. Rheumatoid arthritis, thyroiditis, AIDS, Sjogren's syndrome.
- 4.<10 % of patients older thanage 70 years.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.

5.Patients taking some anti-hypertensive drugs.



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, J | AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | VITAN | /INS | |
| | VIT | AMIN D/25 HYD | ROXY VITAMIN D3 | |
| | DROXY VITAMIN D3): SERUM NESCENCE IMMUNOASSAY) | 18.3 ^L | ng/mL | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| NTERPRETATION: | | . 20 | | ~ /ml |
| | ICIENT: | < 20 21 - 29 | | g/mLg/mL |
| PREFFER | ED RANGE: ICATION: | 30 - 100 > 100 | n | j/mL j/mL |
| issue and tightly bo 3. Vitamin D plays a p 3. Severe deficiency r DECREASED: 1. Lack of sunshine ep 2. Inadeguate intake 3. Depressed Hepatic | und by a transport protein while primary role in the maintenance of tion, skeletal calcium deposition, may lead to failure to mineralize of xposure. , malabsorption (celiac disease) : Vitamin D 25- hydroxylase activi nced Liver disease Secondary Hyperparathroidism (N | in circulation. of calcium homeosta calcium mobilizatio newly formed osteo ty Aild to Moderate de | atis. It promotes calciun n, mainly regulated by p id in bone, resulting in r ficiency) | port form of Vitamin D, being stored in adipos n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism. |





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| Test Name | | Value | Unit | Biological Reference interval | |
| VITAMIN B12/COBA by CMIA (CHEMILUMIN INTERPRETATION:- | LAMIN: SERUM | VITAMIN B12/ 267 SSAY) | /COBALAMIN pg/mL | 190.0 - 890.0 | |
| | ED VITAMIN B12 | | DECREASED VITAMIN | V B12 | |
| 1.Ingestion of Vitamin C | | 1.Pregnanc | | | |
| 2.Ingestion of Estro | | | spirin, Anti-convulsants | , Colchicine | |
| 3.Ingestion of Vitam 4.Hepatocellular in | | 3.Ethanol I | pestion ptive Harmones | | |
| 5.Myeloproliferativ | | 5.Haemodi | | | |
| 6.Uremia | | 6. Multiple | | | |
| | amin) is necessary for hematopo | | uronal function. sic factor (IF) for absorp | tion | |





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | | |
|---|---|---------------------------------------|---|--|
| NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS | : Mr. BALVIR SINGH : 39 YRS/MALE : : : 01515332 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, | REGISTI COLLEC REPORT | F ID ./LAB NO. RATION DATE FION DATE TNG DATE | : 1119146 : 012408200004 : 20/Aug/2024 07:16 AM : 20/Aug/2024 08:51AM : 20/Aug/2024 11:20AM |
| Test Name | | Value | Unit | Biological Reference interval |
| PHYSICAL EXAMINA | | CLINICAL PATHO | | TION |
| COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY | TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY | 10 PALE YELLOW CLEAR >=1.030 | ml | PALE YELLOW CLEAR 1.002 - 1.030 |
| PROTEIN | TANCE SPECTROPHOTOMETRY | ACIDIC Negative | | NEGATIVE (-ve) |
| рН | TANCE SPECTROPHOTOMETRY | Negative 6 NEGATIVE | | NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) |
| NITRITE by DIP STICK/REFLEC UROBILINOGEN | TANCE SPECTROPHOTOMETRY | Negative Normal | EU/dL | NEGATIVE (-ve) 0.2 - 1.0 |
| KETONE BODIES by DIP STICK/REFLEC BLOOD | TANCE SPECTROPHOTOMETRY | Negative Negative | | NEGATIVE (-ve) NEGATIVE (-ve) |
| ASCORBIC ACID | TANCE SPECTROPHOTOMETRY | NEGATIVE (-ve) | | NEGATIVE (-ve) |

MICROSCOPIC EXAMINATION



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



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

| NAME | : Mr. BALVIR SINGH | | | | |
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| Test Name | | Value | Unit | Biological Reference interval | |
| RED BLOOD CELLS (F | RBCs) CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | /HPF | 0 - 3 | |
| PUS CELLS by MICROSCOPY ON G | CENTRIFUGED URINARY SEDIMENT | 0.3 | /HPF | 0 - 5 | |
| EPITHELIAL CELLS | | 1-2 | /HPF | ABSENT | |

| EPTI HELIAL GELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 1-2 | /HPF | ABSENT | |
|---|----------------|------|----------------|--|
| CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | NEGATIVE (-ve) | | NEGATIVE (-ve) | |
| TRICHOMONAS VAGINALIS (PROTOZOA) by microscopy on centrifuged urinary sediment | ABSENT | | ABSENT | |

*** End Of Report ***





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