



| | Dr. Vinay Chop MD (Pathology & Mic Chairman & Consult. | crobiology) | | (Pathology) |
|--|--|---------------------------|--------------------------|--------------------------------------|
| NAME | : Mr. K.C SONDHI | | | |
| AGE/ GENDER | : 68 YRS/MALE | | PATIENT ID | : 1718013 |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012501070016 |
| REFERRED BY | : | | REGISTRATION DATE | :07/Jan/2025 11:15 AM |
| BARCODE NO. | : 01523562 | | COLLECTION DATE | : 07/Jan/2025 11:24AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | :07/Jan/2025 11:42AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | SWAST | THYA WE | LLNESS PANEL: 1. | 5 |
| | | | OOD COUNT (CBC) | |
| RED BLOOD CELL | S (RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (H | | 13.6 | gm/dL | 12.0 - 17.0 |
| | | 4.00 | Ũ | |
| RED BLOOD CELL (by hydro dynamic f | KBC) COUNT FOCUSING, ELECTRICAL IMPEDENCE | 4.68 | Millions | /cmm 3.50 - 5.00 |
| PACKED CELL VOL | UME (PCV) NUTOMATED HEMATOLOGY ANALYZER | 43 | % | 40.0 - 54.0 |
| MEAN CORPUSCUL | AR VOLUME (MCV) | 92 | fL | 80.0 - 100.0 |
| MEAN CORPUSCUL | AR HAEMOGLOBIN (MCH) | 29.2 | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MCHC) |) 31.7^L | g/dL | 32.0 - 36.0 |
| RED CELL DISTRIB | UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-CV) | 15.4 | % | 11.00 - 16.00 |
| | UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD) | 52.9 | fL | 35.0 - 56.0 |
| | UTOMATED HEMATOLOGY ANALYZER | 10.00 | DATIO | |
| MENTZERS INDEX by CALCULATED | | 19.66 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 |
| | | | | IRON DEFICIENCY ANEMIA: |
| GREEN & KING INI | DEX | 30.42 | RATIO | >13.0 BETA THALASSEMIA TRAIT:<= |
| by CALCULATED | | | | 65.0 |
| | | | | IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CE | LLS (WBCS) | | | |
| TOTAL LEUCOCYTH | | 5730 | /cmm | 4000 - 11000 |
| • | Y BY SF CUBE & MICROSCOPY BLOOD CELLS (nRBCS) | NIL | | 0.00 - 20.00 |
| by AUTOMATED 6 PA | RT HEMATOLOGY ANALYZER | | 04 | |
| | BLOOD CELLS (nRBCS) % | NIL | % | < 10 % |
| | | | | |
| | | | | |





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









Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. K.C SONDHI AGE/ GENDER : 68 YRS/MALE **PATIENT ID** :1718013 **COLLECTED BY** : SURJESH :012501070016 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :07/Jan/2025 11:15 AM : **BARCODE NO.** :01523562 **COLLECTION DATE** :07/Jan/2025 11:24AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Jan/2025 11:42AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 64 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 25% 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 8 % 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 3667 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1432 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 172/cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 458 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 305000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) % 0.35 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 11 fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 105000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 34.5 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 16.3% 15.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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







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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | RTING DATE | : 07/Jan/2025 02:11PM |
| CLIENT ADDRESS | | | MINU DAIL | . 07/ Jail/ 2023 02.111 W |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, J | AMBALA CANTI | | |
| Test Name | | Value | Unit | Biological Reference interva |
| GLYCOSYLATED HA | EMOGLOBIN (HbA1c): | 7.1 ^H | % | |
| WHOLE BLOOD by HPLC (HIGH PERFO | RMANCE LIQUID CHROMATOGRAPHY) | 7.1- | 70 | 4.0 - 6.4 |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI | | 7.1 ⁻¹ 157.07 ^H | mg/dL | 4.0 - 6.4 60.00 - 140.00 |
| by HPLC (HIGH PERFOR | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) | 157.07 ^H | mg/dL | |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN | 157.07 ^H DIABETES ASSOCIATION | mg/dL (ADA): | 60.00 - 140.00 |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP | 157.07 ^H DIABETES ASSOCIATION | mg/dL (ADA): LATED HEMOGLOGIB | 60.00 - 140.00 |
| by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: NOT dia | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | 157.07 ^H DIABETES ASSOCIATION | mg/dL (ADA): LATED HEMOGLOGIB <5.7 | 60.00 - 140.00 |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT dia Non dia A | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 157.07 ^H DIABETES ASSOCIATION | mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 | 60.00 - 140.00 |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT dia Non dia A | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years | 157.07 ^H DIABETES ASSOCIATION | mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 | 60.00 - 140.00 |
| by HPLC (HIGH PERFOI ESTIMATED AVERA by HPLC (HIGH PERFOI INTERPRETATION: NOT dia Non dia A | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 157.07 ^H DIABETES ASSOCIATION GLYCOSY | mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years | 60.00 - 140.00 (HBAIC) in % |
| by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes | 157.07 ^H DIABETES ASSOCIATION GLYCOSY GLYCOSY GOals of The | mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: | 60.00 - 140.00 (HBAIC) in % |
| by HPLC (HIGH PERFO ESTIMATED AVERA by HPLC (HIGH PERFO INTERPRETATION: Non dia A D | RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) | 157.07 ^H DIABETES ASSOCIATION GLYCOSY | mg/dL (ADA): LATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: | 60.00 - 140.00 (HBAIC) in % |

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

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

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







| | Dr. Vinay Cl MD (Pathology Chairman & Co | | Dr. Yugarr MD CEO & Consultant | (Pathology) |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| mmune disease, but | does not tell the health practiti | oner exactly where the ir s inflammation. For this r | flammation is in the | e body or what is causing it. |





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Page 4 of 20





| | | hopra & Microbiology) nsultant Pathologist | Dr. Yugam MD CEO & Consultant | (Pathology) |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | CLINI | CAL CHEMISTRY | Y/BIOCHEMIST | 'RY |
| | | GLUCOSE FAS | STING (F) | |
| GLUCOSE FASTING | G (F): PLASMA E - PEROXIDASE (GOD-POD) | 78.16 | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 |

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | Chairman & Co | & Microbiology) onsultant Pathologist | | (Pathology) Pathologist |
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| LIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | :07/Jan/2025 12:50PM |
| LIENT ADDRESS | : 6349/1, NICHOLSON ROAI |), AMBALA CANTT | | |
| Fest Name | | Value | Unit | Biological Reference interval |
| | | LIPID PRO | FILE : BASIC | |
| HOLESTEROL TOT | AL: SERUM | 143.58 | mg/dL | OPTIMAL: < 200.0 |
| by CHOLESTEROL OXI | | | 0 | BORDERLINE HIGH: 200.0 - |
| | | | | 239.0 HIGH CHOLESTEROL: > OR = |
| | | | | 240.0 |
| RIGLYCERIDES: SE | | 76.48 | mg/dL | OPTIMAL: < 150.0 |
| by GLTCEROL PHOSP | IATE OXIDASE (ENZYMATIC) | | | BORDERLINE HIGH: 150.0 - 199.0 |
| | | | | HIGH: 200.0 - 499.0 |
| ΙΝΙ ΔΠΟΙ ΕΧΤΕΡΟΙ | (DIRECT): SERUM | 52.08 | mg/dI | VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 |
| by SELECTIVE INHIBITI | | 52.08 | mg/dL | BORDERLINE HIGH HDL: 30.0 |
| | | | | 60.0 |
| DL CHOLESTEROL | CEDIM | 76.2 | mg/dL | HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 |
| by CALCULATED, SPEC | | 70.2 | ilig/ uL | ABOVE OPTIMAL: < 100.0 - 129. |
| | | | | BORDERLINE HIGH: 130.0 - |
| | | | | 159.0 HIGH: 160.0 - 189.0 |
| | | | | VERY HIGH: $> OR = 190.0$ |
| NON HDL CHOLEST | | 91.5 | mg/dL | OPTIMAL: < 130.0 |
| by CALCULATED, SPEC | TROPHOTOMETRY | | | ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - |
| | | | | 189.0 |
| | | | | HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0 |
| LDL CHOLESTERO | L: SERUM | 15.3 | mg/dL | VERY HIGH: > 0R = 220.0 0.00 - 45.00 |
| by CALCULATED, SPEC | CTROPHOTOMETRY | | | |
| OTAL LIPIDS: SER | | 363.64 | mg/dL | 350.00 - 700.00 |
| HOLESTEROL/HD | L RATIO: SERUM | 2.76 | RATIO | LOW RISK: 3.30 - 4.40 |
| by CALCULATED, SPEC | CTROPHOTOMETRY | | | AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 |
| | | | | $\begin{array}{l} \text{MODERATE RISK: 7.10 - 11.0} \\ \text{HIGH RISK: > 11.0} \end{array}$ |



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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | 2 | |
| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S | | 1.46 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/H by CALCULATED, SPE | | 1.47 ^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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| CLIENT ADDRES | S : 6349/1, NICHOLSON ROAD, AM | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | FUNCTIO 0.89 0.35 | N TEST (COMPLETE) mg/dL mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 |
| | ED, SPECTROPHOTOMETRY | 0.00 | ilig/ uL | 0.00 - 0.40 |
| | IRECT (UNCONJUGATED): SERUM SPECTROPHOTOMETRY | 0.54 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SER by IFCC, WITHOUT | UM T PYRIDOXAL PHOSPHATE | 79 ^H | U/L | 7.00 - 45.00 |
| SGPT/ALT: SER by IFCC, WITHOUT | UM T PYRIDOXAL PHOSPHATE | 57.3 ^H | U/L | 0.00 - 49.00 |
| AST/ALT RATIO |): SERUM SPECTROPHOTOMETRY | 1.38 | RATIO | 0.00 - 46.00 |
| ALKALINE PHO | SPHATASE: SERUM HENYL PHOSPHATASE BY AMINO METHYL | 394.27 ^H | U/L | 40.0 - 130.0 |
| GAMMA GLUTA by SZASZ, SPECT | MYL TRANSFERASE (GGT): SERUM ROPHTOMETRY | 1201.11 ¹ | H U/L | 0.00 - 55.0 |
| TOTAL PROTEIN | NS: SERUM TROPHOTOMETRY | 5.55 ^L | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERU | | 3.51 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SER | | 2.04 ^L | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SEI | | 1.72 | RATIO | 1.00 - 2.00 |

by CALCULATED, SPECTROPHOTOMETRY

NOTE: To be correlated in individuals having SGOT and SGPT values higher than Normal Reference Range. USE: Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

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





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INTERPRETATION





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| Tost Namo | Value | Init | Biological Reference interval |

| 0 | 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 |
| | |



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

MBBS, MD (PATHOLOGY)







| | Dr. Vinay Cho MD (Pathology & N Chairman & Consu | 1icrobiology) | Dr. Yugam MD (CEO & Consultant | (Pathology) |
|--|---|---------------|---------------------------------------|--------------------------------------|
| NAME | : Mr. K.C SONDHI | | | |
| AGE/ GENDER | : 68 YRS/MALE |] | PATIENT ID | : 1718013 |
| COLLECTED BY | : SURJESH |] | REG. NO./LAB NO. | : 012501070016 |
| REFERRED BY | : |] | REGISTRATION DATE | : 07/Jan/2025 11:15 AM |
| BARCODE NO. | : 01523562 | (| COLLECTION DATE | : 07/Jan/2025 11:24AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB |] | REPORTING DATE | : 07/Jan/2025 01:29PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AM | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | KIDNI | EY FUNCTION | N TEST (COMPLETE) | |
| UREA: SERUM | | 20.06 | mg/dL | 10.00 - 50.00 |
| by UREASE - GLUTAM CREATININE: SERU | MATE DEHYDROGENASE (GLDH) | 0.91 | ma/dI | 0.40 1.40 |
| by ENZYMATIC, SPEC | | 0.91 | mg/dL | 0.40 - 1.40 |
| | ROGEN (BUN): SERUM | 9.37 | mg/dL | 7.0 - 25.0 |
| by CALCULATED, SPE BLOOD UREA NITE | ROGEN (BUN)/CREATININE | 10.3 | RATIO | 10.0 - 20.0 |
| RATIO: SERUM | | | | |
| by CALCULATED, SPE UREA/CREATININ | | 22.04 | RATIO | |
| by CALCULATED, SPE | | 22.04 | | |
| URIC ACID: SERUM by URICASE - OXIDAS | | 4.76 | mg/dL | 3.60 - 7.70 |
| CALCIUM: SERUM | | 9.61 | mg/dL | 8.50 - 10.60 |
| by ARSENAZO III, SPE | | 2.00 | | 0.00 4.70 |
| PHOSPHOROUS: SE by PHOSPHOMOLYBE | SKUM DATE, SPECTROPHOTOMETRY | 3.96 | mg/dL | 2.30 - 4.70 |
| ELECTROLYTES | | | | |
| SODIUM: SERUM | | 143.6 | mmol/L | 135.0 - 150.0 |
| by ISE (ION SELECTIV POTASSIUM: SERUI | | 4.61 | mmol/L | 3.50 - 5.00 |
| by ISE (ION SELECTIV | (E ELECTRODE) | | | |
| CHLORIDE: SERUM by ISE (ION SELECTIV | | 107.7 | mmol/L | 90.0 - 110.0 |
| | IERULAR FILTERATION RATE | | | |
| | ERULAR FILTERATION RATE | 91.8 | | |
| 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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







| | | Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar | obiology) | Dr. Y CEO & Con | fugam Ch MD (Path nsultant Path | ology) | | |
|--|--|--|--|--|--|---|--|-------------|
| IAME | : Mr. K.C SON | DHI | | | | | | |
| AGE/ GENDER | : 68 YRS/MAL | Æ | I | PATIENT ID | : 1 | 718013 | | |
| COLLECTED BY | : SURJESH | | I | REG. NO./LAB NO. | . :(| 0125010700 | 16 | |
| REFERRED BY | : | | I | REGISTRATION D | ATE :(| 7/Jan/2025 1 | 1:15 AM | |
| BARCODE NO. | :01523562 | | | COLLECTION DAT | | 7/Jan/2025 1 | | |
| CLIENT CODE. | : KOS DIAGN(| OSTIC LAB | | REPORTING DATE | | 7/Jan/2025 0 | | |
| CLIENT ADDRESS | | HOLSON ROAD, AMB | | 7 | | | | |
| Test Name | | | Value | Uni | it | Biolog | jical Refere | ence interv |
| 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr | tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECR osis. | ATED CREATININE LEVE proportionately more to prin renal disease. | LS: | e) (e.g. obstructive | e uropathy). | | | |
| NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thei | tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed of 0:1) WITH DECR osis. Ind starvation. 2. creased urea sy urea rather tha monemias (urea of inappropiate of 0:1) WITH INCR py (accelerates eleases muscle who develop re- sis (acetoacetat creased BUN/cr apy (interferes ULAR FILTERATIO Non K | ATED CREATININE LEVE proportionately more to prenal disease. EASED BUN : In thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. In a failure. In | LS: han creatinin ut of extrace blood). due to tubula to creatinine e in creatinin rement). | Ilular fluid). ar secretion of urea e). | hodologies, ASSOCI Presen | TED FINDINGS proteinuria ce of Protein , | <u>. </u> | when dehyd |
| NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (5. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 5. Nould produce an in 2. Cephalosporin ther 5. STIMATED GLOMERI CKD STAGE G1 G2 | tetracycline, glu 0:1) WITH ELEV (BUN rises disp superimposed of 0:1) WITH DECR osis. Ind starvation. creased urea sy urea rather tha monemias (urea of inappropiate and 0:1) WITH INCR py (accelerates eleases muscle who develop refines is (acetoacetat creased BUN/cr apy (interferes ILAR FILTERATIO Non K | accorticoids) ATED CREATININE LEVE proportionately more to prenal disease. EASED BUN : Attack of the second a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. The causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR | LS: han creatinin ut of extrace blood). due to tubula to creatinine e in creatinin rement). | Ilular fluid). ar secretion of urea e). e with certain meth //min/1.73m2) >90 >90 | hodologies, ASSOCI Presen | TED FINDINGS proteinuria | <u>. </u> | when dehyd |
| NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet and Severe liver diseas Other causes of de Repeated dialysis (SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Anuscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in CED STAGE G1 G2 G3a | tetracycline, glu 0:1) WITH ELEV (BUN rises disp superimposed of 0:1) WITH DECR osis. Ind starvation. creased urea sy urea rather tha monemias (urea f inappropiate a 0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <u>ILAR FILTERATIO</u> Non K Non K | accorticoids) ATED CREATININE LEVE proportionately more to prenal disease. EASED BUN : a thesis. n creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. re causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR ild decrease in GFR | LS: han creatinin ut of extrace blood). due to tubula to creatinine e in creatinin rement). | Ilular fluid). ar secretion of urea e). e with certain meth <u>//min/1.73m2) >90 >90 60 -89</u> | hodologies, ASSOCI Presen | TED FINDINGS proteinuria ce of Protein , | <u>. </u> | when dehyd |
| INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there ESTIMATED GLOMERI CKD STAGE G1 G2 | tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed of 0:1) WITH DECR osis. Ind starvation. 2. creased urea sy urea rather tha monemias (urea of inappropiate and 0:1) WITH INCR py (accelerates eleases muscle who develop re : sis (acetoacetat creased BUN/cr apy (interferes <u>ILAR FILTERATIO</u> Non K n Mod | accorticoids) ATED CREATININE LEVE proportionately more to prenal disease. EASED BUN : Attack of the second a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. The causes false increase eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function idney damage with ormal or high GFR | LS: han creatinin ut of extrace blood). due to tubula to creatinine e in creatinin rement). | Ilular fluid). ar secretion of urea e). e with certain meth //min/1.73m2) >90 >90 | hodologies, ASSOCI Presen | TED FINDINGS proteinuria ce of Protein , | <u>. </u> | when dehyd |





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| | Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pat | 3, , | (Pathology) |
|--------------------|---|--------------------------|-------------------------------|
| NAME | : Mr. K.C SONDHI | | |
| AGE/ GENDER | : 68 YRS/MALE | PATIENT ID | : 1718013 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012501070016 |
| REFERRED BY | : | REGISTRATION DATE | : 07/Jan/2025 11:15 AM |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA | CANTT | |
| Test Name | Val | ue 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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| CLIENT CODE. | : KOS DIAGNOSTIC LAB | REPO | RTING DATE | : 07/Jan/2025 12:50PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMI | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | IRON PRO | FILE | |
| IRON: SERUM by FERROZINE, SPEC | TROPHOTOMETRY | 66.4 | μg/dL | 59.0 - 158.0 |
| UNSATURATED IR :SERUM by FERROZINE, SPEC | ON BINDING CAPACITY (UIBC) | 163.21 | µg/dL | 150.0 - 336.0 |
| | ING CAPACITY (TIBC) | 229.61 ^L | µg/dL | 230 - 430 |
| %TRANSFERRIN S | ATURATION: SERUM ECTROPHOTOMETERY (FERENE) | 28.92 | % | 15.0 - 50.0 |
| TRANSFERRIN: SE | | 163.02 ^L | mg/dL | 200.0 - 350.0 |

INTERPRETATION:-

| 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 |

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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Page 13 of 2





| | MD (| Vinay Chopra Pathology & Microbiology man & Consultant Pathol | /) M | m Chopra D (Pathology) nt Pathologist | |
|---|-------------------------------|---|-----------------------------------|---|--------|
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| CLIENT ADDRESS | : 6349/1, NICHOLS | ON ROAD, AMBALA CAN | ITT | | |
| Test Name | | Value | Unit | Biological Reference in | terval |
| | | END | OCRINOLOGY | | |
| | | THYROID FU | NCTION TEST: TOTAL | | |
| TRIIODOTHYRONII by CMIA (CHEMILUMIN | NE (T3): SERUM | 1.025 E IMMUNOASSAY) | ng/mL | 0.35 - 1.93 | |
| THYROXINE (T4): S by CMIA (CHEMILUMIN | SERUM IESCENT MICROPARTICI | 8.35 E IMMUNOASSAY) | μgm/d | L 4.87 - 12.60 | |
| THYROID STIMULA | TING HORMONE (T | | μIU/m | L 0.35 - 5.50 | |
| 3rd GENERATION, ULT | | | | | |
| INTERPRETATION: | | | | | |
| day has influence on the i triiodothyronine (T3).Fai | measured serum TSH cond | entrations. TSH stimulates th | e production and secretion of the | pm. The variation is of the order of 50%.Hence to metabolically active hormones, thyroxine (T4)a ther underproduction (hypothyroidism) or | |
| CLINICAL CONDITION | | T3 | T4 | TSH | |
| Primary Hypothyroidis | m: | Reduced | Reduced | Increased (Significantly) | |
| Subclinical Hypothyroi | dism: N | lormal or Low Normal | Normal or Low Normal | High | |

LIMITATIONS:-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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

Increased

Normal or High Normal

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

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

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

| TRIIODOTH | TRIIODOTHYRONINE (T3) | | INE (T4) | THYROID STIMULATING HORMONE (TSH) | | |
|-------------------|-----------------------------|-------------------|-----------------------------|-----------------------------------|-----------------------------|--|
| Age | Refferance Range (ng/mL) | Age | Refferance Range (µg/dL) | Age | Reference Range (μIU/mL) | |
| 0 - 7 Days | 0.20 - 2.65 | 0 - 7 Days | 5.90 - 18.58 | 0 - 7 Days | 2.43 - 24.3 | |
| 7 Days - 3 Months | 0.36 - 2.59 | 7 Days - 3 Months | 6.39 - 17.66 | 7 Days - 3 Months | 0.58 - 11.00 | |
| 3 - 6 Months | 0.51 - 2.52 | 3 - 6 Months | 6.75 - 17.04 | 3 Days – 6 Months | 0.70 - 8.40 | |
| 6 - 12 Months | 0.74 - 2.40 | 6 - 12 Months | 7.10 - 16.16 | 6 – 12 Months | 0.70 - 7.00 | |

Increased

Normal or High Normal





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Reduced (at times undetectable)

Reduced

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





| | Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholo | | (Pathology) |
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| Test Name | Value | Unit | Biological Reference interval |

| Test Name | | | Value | Unit | t | Biological Reference interval |
|---------------------|---------------|----------------------|------------------|---------------------|-------------|-------------------------------|
| 1 - 10 Years | 0.92 - 2.28 | 1 - 10 Years | 6.00 - 13.80 | 1 – 10 Years | 0.60 - 5.50 | |
| 11- 19 Years | 0.35 - 1.93 | 11 - 19 Years | 4.87-13.20 | 11 – 19 Years | 0.50 - 5.50 | |
| > 20 years (Adults) | 0.35 - 1.93 | > 20 Years (Adults) | 4.87 - 12.60 | > 20 Years (Adults) | 0.35- 5.50 | |
| | RECO | MMENDATIONS OF TSH L | EVELS DURING PRE | GNANCY (µIU/mL) | | |
| | 1st Trimester | | | 0.10 - 2.50 | | |
| | 2nd Trimester | | | 0.20 - 3.00 | | |
| | 3rd Trimester | | | 0.30 - 4.10 | | |

INCREASED TSH LEVELS:

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

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

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

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

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

| | Dr. Vinay Ch MD (Pathology & Chairman & Con | | Dr. Yugam MD CEO & Consultant | (Pathology) | |
|--|---|--|--|---|--|
| NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS | : Mr. K.C SONDHI : 68 YRS/MALE : SURJESH : : 01523562 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, | R R C R | PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE | : 1718013 : 012501070016 : 07/Jan/2025 11:15 AM : 07/Jan/2025 11:24AM : 07/Jan/2025 02:17PM | |
| Test Name | | Value | Unit | Biological Reference interval | |
| IMMUNOGLOBIN-E | | | LOGY/SEROLOGY GLOBIN IgE IU/mL | 0.0 - 200.0 | |
| exposure to allergens. 2. Total IgE is represer group amongst them. 3. Total IgE determinat existence of atopy and 4. Antigen-specific IgE i available for in vitro di 5. In adults, Total IgE va different allergen or of 6. Specific IgE results of 7. The probability of fi allergens to which the 8. A normal level of IgI allergens and limited of INCREASED: 1. Atopic/Non Atopic A 2. Parasitic Infection. 3. IgE Myeloma 4. Allergic bronchopul 5. The rare hyper IgE sy | Ats the sum of all the specific Ig tion constitutes a screening met d high values of total IgE are not s the next step in the in vitro ider agnostic tests and testing to be s alues between 100 to 1000 UI/mil ten the cause for high IgE could i obtained with the different meth nding an increased level of IgE i e patient is sensitized. E in serum does not eliminate th end organ involvement. | E, which inturn inclu- thod of atopic disea pathognomonic of ntification of the resp selected based on sys I may not correlate v be non-atopic. nods vary significant in serum in a patien | udes many groups of spec ises, although within range atopy by themselves. ponsible allergen. There are mptoms, clinical & environ with allergen specific IgE, w tly, hence followup testing t with allergic disease var | mine and other inflammatory mediators on cific IgE & allergen specific IgE is just one such e values of total IgE do not exclude the e more than 400 characterized known allergens mental details. where the patients may be just sensitized to g to be performed using one laboratory only. ries directly with the number of different f there is sensitivity to a limited number of | |
| 1.Evaluation of childr 2.Evaluation of childr 3.To confirm clinical e disease 4.To evaluate sensitiv equivocal | expression of sensitivity to food ity to insect venom allergens p | ing allergic respirat s in patients with A articularly as an aid | ory disease to establish t naphylactic sensitivity or d in defining venom specif | he diagnosis and define the allergens with Asthma, Angioedema or Cutaneous ficity in those cases in which skin tests are | |
| 5.To confirm the pres | ence of IgE antibodies to certain | n occupational aller | rgens | | |

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Ľ7

02237





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



| | | Dr. Vinay Ch MD (Pathology & Chairman & Con | Microbiology) | MI | m Chopra D (Pathology) nt Pathologist | |
|--|---|--|--|--|--|---|
| IAME | : Mr. K.C SON | DHI | | | | |
| AGE/ GENDER | : 68 YRS/MAL | E | | PATIENT ID | : 1718013 | |
| COLLECTED BY | : SURJESH | | | REG. NO./LAB NO. | :0125010700 | 16 |
| REFERRED BY | : | | | REGISTRATION DATE | :07/Jan/20251 | 1:15 AM |
| BARCODE NO. | :01523562 | | | COLLECTION DATE | :07/Jan/20251 | 1:24AM |
| CLIENT CODE. | : KOS DIAGNO | OSTIC LAB | | REPORTING DATE | :07/Jan/20251 | 2:20PM |
| CLIENT ADDRESS | : 6349/1, NIC | HOLSON ROAD, | AMBALA CANTI | r | | |
| Test Name | | | Value | Unit | Biolog | ical Reference interval |
| | | | VI | TAMINS | | |
| | | VITA | | YDROXY VITAMIN I | 03 | |
| VITAMIN D (25-HY by CLIA (CHEMILUMIN | | | 29.3 ^L | ng/mL | INSUF SUFFI | IENCY: < 20.0 FICIENCY: 20.0 - 30.0 CIENCY: 30.0 - 100.0 ITY: > 100.0 |
| NTERPRETATION: | | | | | | - |
| | icient: Ficient: | | < 20 21 - 29 | | ng/mL ng/mL | |
| | ED RANGE: | | 30 - 100 | | ng/mL | |
| 2.25-OHVitamin D i tissue and tightly bo 3.Vitamin D plays a p phosphate reabsorp 4.Severe deficiency i DECREASED: 1.Lack of sunshine ex 2.Inadeguate intake 3.Depressed Hepatic 4.Secondarv to adva 5.Osteoporosis and S 6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis severe hypercalcemi CAUTION: Replaceme hypervitaminosis D NOTE:-Dark coloured | represents the m rund by a transpo- primary role in th tion, skeletal calu- may lead to failu xposure. , malabsorption : Vitamin D 25- h nced Liver diseas Secondary Hyper lrugs: anti-epilep D is Rare, and is a and hyperphote ent therapy in de | ain body resevoi ort protein while ne maintenance cium deposition, re to mineralize (celiac disease) vdroxylase activi e parathroidism (N tic drugs like pho seen only after p phatemia. ficient individua | r and transport f in circulation. of calcium home calcium mobiliz newly formed os ty Mild to Moderate enytoin, phenoba rolonged exposu Is must be monit | eostatis. It promotes calcid ation, mainly regulated by steoid in bone, resulting in | um absorption, renal y parathyroid harmor rickets in children a e, that increases Vitat es of Vitamin D. When ent of Vitamin D leve | ne (PTH). nd osteomalacia in adults. min D metabolism. n it occurs, it can result in ls in order to prevent |
| hypervitaminosis D | individuals as co | | | | | |
| | | | | | | |

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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







| | | hopra & Microbiology) nsultant Pathologist | Dr. Yugar MD CEO & Consultant | (Pathology) |
|--|--------------------------|--|-------------------------------------|-------------------------------|
| NAME | : Mr. K.C SONDHI | | | |
| AGE/ GENDER | : 68 YRS/MALE | PATI | ENT ID | : 1718013 |
| COLLECTED BY | : SURJESH | REG. | NO./LAB NO. | : 012501070016 |
| REFERRED BY | : | REGI | STRATION DATE | : 07/Jan/2025 11:15 AM |
| BARCODE NO. | : 01523562 | | ECTION DATE | : 07/Jan/2025 11:24AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | ORTING DATE | : 07/Jan/2025 12:50PM |
| CLIENT ADDRESS | | | JAIING DAIL | . 07/ Jail/ 2023 12.30F M |
| LIENI ADDRESS | : 6349/1, NICHOLSON ROAD | , AMDALA CANTI | | |
| Test Name | | Value | Unit | Biological Reference interval |
| <u>INTERPRETATION:-</u> INCREAS | SED VITAMIN B12 | | DECREASED VITAMIN | V B12 |
| 1.Ingestion of Vitan | | 1.Pregnancy | | |
| 2.Ingestion of Estro | | | rin, Anti-convulsants | , Colchicine |
| 3.Ingestion of Vitam | | 3.Ethanol Iges | | |
| | | 4. Contraceptive Harmones | | |
| 4.Hepatocellular in | | | | |
| 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia 1.Vitamin B12 (cobal | | 5.Haemodialy 6. Multiple My poiesis and normal neuro | sis veloma onal function. | |





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







| | | hopra & Microbiology) onsultant Pathologist | obiology) MD (Pathology) | | | | | | | | |
|---|------------------------------------|---|----------------------------|--|--|--|--|--|--|--|--|
| NAME | : Mr. K.C SONDHI | | | | | | | | | | |
| AGE/ GENDER | : 68 YRS/MALE | PAT | FIENT ID | 1718013 | | | | | | | |
| COLLECTED BY | : SURJESH | | G. NO./LAB NO. | : 012501070016 | | | | | | | |
| REFERRED BY | : | | GISTRATION DATE | : 07/Jan/2025 11:15 AM | | | | | | | |
| BARCODE NO. CLIENT CODE. | : 01523562 : KOS DIAGNOSTIC LAB | | LLECTION DATE PORTING DATE | 07/Jan/2025 11:24AM 07/Jan/2025 12:47PM | | | | | | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | | I OKIING DATE | . 07/ Jail/ 2023 12.471 M | | | | | | | |
| | , | | | | | | | | | | |
| Test Name | | Value | Unit | Biological Reference interval | | | | | | | |
| | | CLINICAL PA | THOLOGY | | | | | | | | |
| | URINER | OUTINE & MICRO | | ATION | | | | | | | |
| PHYSICAL EXAMI | | | | | | | | | | | |
| QUANTITY RECIEVED | | 10 | ml | | | | | | | | |
| • | TANCE SPECTROPHOTOMETRY | PALE YELLO | | PALE YELLOW | | | | | | | |
| COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | PALE IELLO | vv | PALE IELLOW | | | | | | | |
| TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | CLEAR | | CLEAR | | | | | | | |
| SPECIFIC GRAVITY | | 1.02 | | 1.002 - 1.030 | | | | | | | |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | | | | | | | | |
| REACTION | | NEUTRAL | | | | | | | | | |
| by DIP STICK/REFLEC | TANCE SPECTROPHOTOMETRY | | | NEGATIVE (-ve) | | | | | | | |
| | TANCE SPECTROPHOTOMETRY | Negative | | | | | | | | | |
| SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | Negative | | NEGATIVE (-ve) | | | | | | | |
| pH | | 7 | | 5.0 - 7.5 | | | | | | | |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN | | Negative | | NEGATIVE (-ve) | | | | | | | |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | U | | | | | | | | | |
| NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. | | Negative | | NEGATIVE (-ve) | | | | | | | |
| UROBILINOGEN | | Normal | EU/dL | 0.2 - 1.0 | | | | | | | |
| by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY | | Negative | | NEGATIVE (-ve) | | | | | | | |
| BLOOD | TANCE SPECTROPHOTOMETRY | Negative | | NEGATIVE (-ve) | | | | | | | |
| ASCORBIC ACID | | NEGATIVE (-• | ve) | NEGATIVE (-ve) | | | | | | | |
| | TANCE SPECTROPHOTOMETRY | | | | | | | | | | |
| MICROSCOPIC EXAMINATION RED BLOOD CELLS (RBCs) | | NEGATIVE (-v | ve) /HPF | 0 - 3 | | | | | | | |
| | | (| | | | | | | | | |





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

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 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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



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

| NAME | : Mr. K.C SONDHI | | | | | |
|--|------------------------------|-------------|-------------------|--|--|--|
| AGE/ GENDER | LECTED BY : SURJESH | | PATIENT ID | : 1718013 : 012501070016 : 07/Jan/2025 11:15 AM : 07/Jan/2025 11:24AM : 07/Jan/2025 12:47PM | | |
| COLLECTED BY | | | REG. NO./LAB NO. | | | |
| REFERRED BY | | | REGISTRATION DATE | | | |
| BARCODE NO. : 01523562 CLIENT CODE. : KOS DIAGNOSTIC LAB | | (| COLLECTION DATE | | | |
| | |] | EPORTING DATE | | | |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AN | MBALA CANTT | | | | |
| Test Name | | Value | Unit | Biological Reference interval | | |
| by MICROSCOPY ON O | CENTRIFUGED URINARY SEDIMENT | | | | | |
| PUS CELLS by MICROSCOPY ON (| CENTRIFUGED URINARY SEDIMENT | 2-4 | /HPF | 0 - 5 | | |
| EPITHELIAL CELLS | S | 1-3 | /HPF | ABSENT | | |

| EPTTHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 1-3 | /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) | ABSENT | | ABSENT | |

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report ***



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

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

