



| | Dr. Vinay Chop MD (Pathology & Mic Chairman & Consulta | robiology) | | (Pathology) |
|-------------------------------------|---------------------------------------------------------------------|-------------------|--------------------------------------|------------------------------------------------------------------------|
| NAME | : Mr. A.K GUPTA | | | |
| AGE/ GENDER | : 75 YRS/MALE | | PATIENT ID | : 1664040 |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012411070020 |
| REFERRED BY | : | | REGISTRATION DATE | : 07/Nov/2024 10:42 AM |
| BARCODE NO. | : 01520277 | | COLLECTION DATE | :07/Nov/2024 11:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 07/Nov/2024 11:31AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AME | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | | LLNESS PANEL: 1.5 OOD COUNT (CBC) | 5 |
| RED BLOOD CELLS | G (RBCS) COUNT AND INDICES | | | |
| HAEMOGLOBIN (H | B) | 12.1 | gm/dL | 12.0 - 17.0 |
| by CALORIMETRIC RED BLOOD CELL (| PBC) COUNT | 4.34 | Millions/ | /cmm 3.50 - 5.00 |
| by HYDRO DYNAMIC F | OCUSING, ELECTRICAL IMPEDENCE | | | |
| PACKED CELL VOLU | JME (PCV) UTOMATED HEMATOLOGY ANALYZER | 38.5 ^L | % | 40.0 - 54.0 |
| MEAN CORPUSCUL | | 88.6 | fL | 80.0 - 100.0 |
| MEAN CORPUSCUL | AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER | 27.8 | pg | 27.0 - 34.0 |
| MEAN CORPUSCUL | AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER | 31.4 ^L | g/dL | 32.0 - 36.0 |
| | UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER | 15 | % | 11.00 - 16.00 |
| | UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER | 49.4 | fL | 35.0 - 56.0 |
| MENTZERS INDEX by CALCULATED | | 20.41 | RATIO | BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING INI by CALCULATED | | 30.53 | RATIO | BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0 |
| WHITE BLOOD CE | | | | |
| TOTAL LEUCOCYTE | E COUNT (TLC) (by sf cube & microscopy | 9360 | /cmm | 4000 - 11000 |
| NUCLEATED RED E | BLOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER | NIL | | 0.00 - 20.00 |
| NUCLEATED RED E | SLOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER | NIL | % | < 10 % |
| | | | | |





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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Vinay Chopra



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

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| Test Name | Value | Unit | Biological Reference interval |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------|------|--------------------------------------|
| DIFFERENTIAL LEUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS by flow cytometry by sf cube & microscopy | 54 | % | 50 - 70 |
| LYMPHOCYTES by flow cytometry by SF cube & microscopy | 31 | % | 20 - 40 |
| EOSINOPHILS by flow cytometry by sf cube & microscopy | 7 ^H | % | 1 - 6 |
| MONOCYTES by flow cytometry by sf cube & microscopy | 8 | % | 2 - 12 |
| BASOPHILS by flow cytometry by sf cube & microscopy | 0 | % | 0 - 1 |
| ABSOLUTE LEUKOCYTES (WBC) COUNT | | | |
| ABSOLUTE NEUTROPHIL COUNT by flow cytometry by sf cube & microscopy | 5054 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy | 2902 | /cmm | 800 - 4900 |
| ABSOLUTE EOSINOPHIL COUNT by flow cytometry by sf cube & microscopy | 655 ^H | /cmm | 40 - 440 |
| ABSOLUTE MONOCYTE COUNT by flow cytometry by sf cube & microscopy | 749 | /cmm | 80 - 880 |
| PLATELETS AND OTHER PLATELET PREDICTIVE | MARKERS. | | |
| PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence | 236000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 0.28 | % | 0.10 - 0.36 |
| MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence | 12 | fL | 6.50 - 12.0 |
| PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 95000 ^H | /cmm | 30000 - 90000 |
| PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE | 40.5 | % | 11.0 - 45.0 |
| PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD | 16.2 | % | 15.0 - 17.0 |





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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | AMDALA CAN I I | | | |
| Test Name | | Value | Unit | Biological Reference interva | |
| WHOLE BLOOD | EMOGLOBIN (HbA1c): | 8 ^H | % | 4.0 - 6.4 | |
| ESTIMATED AVERA | GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) | 182.9 ^H | mg/dL | 60.00 - 140.00 | |
| <u>INTERFRETATION.</u> | | | | | |
| | AS PER AMERICAN REFERENCE GROUP | DIABETES ASSOCIATION | | PAIC) in % | |
| | | GLYCOSYLATED HEMOGLOGIB (HBAIC) in % | | | |
| | abetic Adults >= 18 years | | -57 | | |
| Non dia | abetic Adults >= 18 years t Risk (Prediabetes) | - / | <5.7 | | |
| Non dia A | t Risk (Prediabetes) | | <5.7 5.7 - 6.4 >= 6.5 | | |
| Non dia A | | | 5.7 – 6.4 | | |
| Non dia A D | t Risk (Prediabetes) iagnosing Diabetes | Goals of The | 5.7 - 6.4 >= 6.5 Age > 19 Years | < 7.0 | |
| Non dia A D | t Risk (Prediabetes) | Goals of The Actions Sugge | 5.7 – 6.4 >= 6.5 Age > 19 Years rapy: ested: | < 7.0 >8.0 | |
| Non dia A D | t Risk (Prediabetes) iagnosing Diabetes | | 5.7 – 6.4 >= 6.5 Age > 19 Years rapy: isted: Age < 19 Years | | |

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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| LIENT ADDRESS | : 6349/1, NICHOLSON RO | AD, AMBALA CANTT | | |
| Fest Name | | Value | Unit | Biological Reference interval |
| (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext | hificantly high white blood ce le cell anaemia) also lower th es protein (C-RP) are both ma es not change as rapidly as do by as many other factors as i ed, it is typically a result of to we a higher ESR, and menstru | Il count (leucocytosis ne ESR. kers of inflammation les CRP, either at the s ESR, making it a bet wo types of proteins, lation and pregnancy. | and some protein abno start of inflammation or a ter marker of inflammation globulins or fibrinogen. can cause temporary eleva | n. |
| | | | | |





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| Test Name | | Value | Unit | Biological Reference interval |
| | CLI | NICAL CHEMISTRY | BIOCHEMISTR | RY |
| | | GLUCOSE FAST | TING (F) | |
| GLUCOSE FASTING by GLUCOSE OXIDAS | G (F): PLASMA E - PEROXIDASE (GOD-POD) | 103.42 ^H | mg/dL | NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0 |

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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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 Name | | Value | Unit | Biological Reference interval |
| | | LIPID PROFI | I F · BASIC | |
| CHOLESTEROL TO | | | | OPTIMAL: < 200.0 |
| by CHOLESTEROL 10 | | 107.71 | mg/dL | BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0 |
| TRIGLYCERIDES: S by GLYCEROL PHOSF | ERUM phate oxidase (enzymatic) | 145.04 | mg/dL | OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 |
| | | | | VERY HIGH: $> OR = 500.0$ |
| HDL CHOLESTERO | L (DIRECT): SERUM ion | 37.31 | mg/dL | LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0 |
| LDL CHOLESTEROI by CALCULATED, SPE | | 41.39 | mg/dL | OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0 |
| NON HDL CHOLEST by CALCULATED, SPE | | 70.4 | 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 CHOLESTER(| | 29.01 | mg/dL | 0.00 - 45.00 |
| TOTAL LIPIDS: SER by CALCULATED, SPE | RUM | 360.46 | mg/dL | 350.00 - 700.00 |
| CHOLESTEROL/HE by CALCULATED, SPE | DL RATIO: SERUM | 2.89 | RATIO | LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 |





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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| LDL/HDL RATIO: S by calculated, spe | | 1.11 | RATIO | LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0 |
| TRIGLYCERIDES/HDL RATIO: SERUM | | 3.89 | RATIO | 3.00 - 5.00 |

by CALCULATED, SPECTROPHOTOMETRY

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

4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. A.K GUPTA **AGE/ GENDER** : 75 YRS/MALE **PATIENT ID** :1664040 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012411070020 **REFERRED BY** : **REGISTRATION DATE** :07/Nov/2024 10:42 AM **BARCODE NO.** :01520277 **COLLECTION DATE** :07/Nov/2024 11:14AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Nov/2024 12:35PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval LIVER FUNCTION TEST (COMPLETE)**

| BILIRUBIN TOTAL: SERUM | 0.56 | mg/dL | INFANT: 0.20 - 8.00 |
|--------------------------------------------------------------------------------------------|-------|-------|---------------------|
| by DIAZOTIZATION, SPECTROPHOTOMETRY | | | ADULT: 0.00 - 1.20 |
| BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY | 0.15 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by Calculated, spectrophotometry | 0.41 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 26.1 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE | 21.4 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY | 1.22 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL | 77.04 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry | 34.21 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY | 7.53 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL GREEN | 4.13 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY | 3.4 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERUM by calculated, spectrophotometry | 1.21 | 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:

| > 2 |
|----------------------------|
| > 2 (Highly Suggestive) |
| 1.4 - 2.0 |
| > 1.5 |
| > 1.3 (Slightly Increased) |
| |





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

Test NameValueUnitBiological 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).

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



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MBBS, MD (PATHOLOGY)







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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | Unit | Biological Reference interval |
| UREA: SERUM | KIDN | EY FUNCTION T 30.66 | EST (COMPLETE) mg/dL | 10.00 - 50.00 |
| by UREASE - GLUTAM CREATININE: SERU | IATE DEHYDROGENASE (GLDH) JM | 1.53 ^H | mg/dL | 0.40 - 1.40 |
| by ENZYMATIC, SPEC | TROPHOTOMETERY | | | |
| BLOOD UREA NITR by CALCULATED, SPE | COGEN (BUN): SERUM | 14.33 | mg/dL | 7.0 - 25.0 |
| BLOOD UREA NITE RATIO: SERUM by CALCULATED, SPE | COGEN (BUN)/CREATININE | 9.37 ^L | RATIO | 10.0 - 20.0 |
| UREA/CREATININ | E RATIO: SERUM | 20.04 | RATIO | |
| URIC ACID: SERUM by URICASE - OXIDAS | | 2.99 ^L | mg/dL | 3.60 - 7.70 |

| 3) 61161162 611211621121161 | | | |
|-------------------------------------------------------------------------|------------------|--------|---------------|
| CALCIUM: SERUM by ARSENAZO III, SPECTROPHOTOMETRY | 9.87 | mg/dL | 8.50 - 10.60 |
| PHOSPHOROUS: SERUM by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY | 3.4 | mg/dL | 2.30 - 4.70 |
| <u>ELECTROLYTES</u> | | | |
| SODIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | 145.7 | mmol/L | 135.0 - 150.0 |
| POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) | 5.3 ^H | mmol/L | 3.50 - 5.00 |
| CHLORIDE: SERUM by ISE (ION SELECTIVE ELECTRODE) | 109.28 | mmol/L | 90.0 - 110.0 |
| ESTIMATED GLOMERULAR FILTERATION RATE | | | |
| ESTIMATED GLOMERULAR FILTERATION RATE (eGFR): SERUM by CALCULATED | 47.1 | | |
| | | | |

KINDLY CORRELATE CLINICALLY

ADVICE 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.



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| | | Dr. Vinay Cho MD (Pathology & I Chairman & Const | Microbiology) | | u gam Chopra MD (Pathology) sultant Pathologist | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|
| NAME | : Mr. A.K GU | РТА | | | | |
| AGE/ GENDER | : 75 YRS/MA | LE | I | ATIENT ID | : 1664040 |) |
| COLLECTED BY | : SURJESH | | 1 | EG. NO./LAB NO. | : 012411 | 070020 |
| REFERRED BY | | | | EGISTRATION DA | | 2024 10:42 AM |
| | | | | | | |
| BARCODE NO. | :01520277 | | | OLLECTION DATE | | 2024 11:14AM |
| CLIENT CODE. | : KOS DIAGN | | | EPORTING DATE | :07/Nov/ | 2024 02:38PM |
| CLIENT ADDRESS | : 6349/1, NI | CHOLSON ROAD, A | MBALA CANTT | | | |
| Test Name | | | Value | Unit | t I | Biological Reference interval |
| ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< | xia, high fever) (e.g. ureter co ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 10:1) WITH DEC | ostomy) I creatinine produc ucocorticoids) ATED CREATININE I proportionately mo on renal disease. | tion) | | | 's syndrome, high protein diet, |
| ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 1. Postrenal azotemia DECREASED RATIO (1. Acute tubular necr 2. Low protein diet al 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 | xia, high fever) (e.g. ureter col ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 0:1) WITH DEC osis. d starvation. e. creased urea so urea rather tha monemias (urea of inappropiate (0:1) WITH INCF py (accelerates eleases muscle who develop re : | ostomy) I creatinine produc ucocorticoids) ATED CREATININE I proportionately mo on renal disease. REASED BUN : an creatinine diffus ta is virtually absen antidiuretic harmo REASED CREATININE conversion of creat creatinine). enal failure. | ction) LEVELS: Dre than creatinin ses out of extrace it in blood). Dre) due to tubula E: atine to creatinine | e) (e.g. obstructive lular fluid). r secretion of urea.). | uropathy). | |
| ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 1. Postrenal 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 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin the | xia, high fever) (e.g. ureter co ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 10:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather tha monemias (urea finappropiate 10:1) WITH INCF py (accelerates eleases muscle who develop re sis (acetoaceta creased BUN/c apy (interferes | ostomy) I creatinine product ucocorticoids) ATED CREATININE I proportionately mo on renal disease. REASED BUN : an creatinine diffus a is virtually absen antidiuretic harmo REASED CREATININE conversion of creat creatinine). enal failure. te causes false incurent reatinine ratio). with creatinine me | ettion) LEVELS: Dre than creatinin Ses out of extrace at in blood). Dre) due to tubula E: atine to creatinine rease in creatinin | e) (e.g. obstructive lular fluid). r secretion of urea.). | uropathy). | 's syndrome, high protein diet, g in normal ratio when dehydrati |
| ourns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (> 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (1. Acute tubular necr 2. Low protein diet al 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 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in | xia, high fever) (e.g. ureter co ass (subnorma tetracycline, gl 0:1) WITH ELEV (BUN rises dis superimposed 10:1) WITH DEC osis. Ind starvation. E. creased urea s urea rather tha monemias (urea finappropiate 10:1) WITH INCF py (accelerates eleases muscle who develop re sis (acetoaceta creased BUN/c apy (interferes | ostomy) I creatinine product ucocorticoids) ATED CREATININE I proportionately mo on renal disease. REASED BUN : an creatinine diffus a is virtually absen antidiuretic harmo REASED CREATININE conversion of creat creatinine). enal failure. te causes false incurent reatinine ratio). with creatinine me | estion) LEVELS: Dre than creatinin bre than creatinin tin blood). Dre) due to tubula E: atine to creatinine rease in creatinin easurement). | e) (e.g. obstructive lular fluid). r secretion of urea.). | uropathy). | g in normal ratio when dehydrati |

| CKD STAGE | DESCRIPTION | GFR (mL/min/1.73m2) | ASSOCIATED FINDINGS |
|-----------|--------------------------|-----------------------|--------------------------|
| G1 | Normal kidney function | >90 | No proteinuria |
| G2 | Kidney damage with | >90 | Presence of Protein, |
| | normal or high GFR | | Albumin or cast in urine |
| G3a | Mild decrease in GFR | 60 -89 | |
| G3b | Moderate decrease in GFR | 30-59 | |
| G4 | Severe decrease in GFR | 15-29 | |
| G5 | Kidney failure | <15 | |



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| | Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path | | (Pathology) |
|--------------------|-------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| NAME | : Mr. A.K GUPTA | | |
| AGE/ GENDER | : 75 YRS/MALE | PATIENT ID | : 1664040 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012411070020 |
| REFERRED BY | : | REGISTRATION DATE | : 07/Nov/2024 10:42 AM |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA CA | ANTT | |
| Test Name | Valu | e 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 | | |
|----------------------------------------------------------------------------------------|--------------------|-------|---------------|
| | IKUN FRUI | ILL | |
| IRON: SERUM by FERROZINE, SPECTROPHOTOMETRY | 48.1 ^L | µg/dL | 59.0 - 158.0 |
| UNSATURATED IRON BINDING CAPACITY (UIBC) :SERUM by ferrozine, spectrophotometery | 291.43 | μg/dL | 150.0 - 336.0 |
| TOTAL IRON BINDING CAPACITY (TIBC) :SERUM by SPECTROPHOTOMETERY | 339.53 | μg/dL | 230 - 430 |
| %TRANSFERRIN SATURATION: SERUM by calculated, spectrophotometery (ferene) | 14.17 ^L | % | 15.0 - 50.0 |
| TRANSFERRIN: SERUM by SPECTROPHOTOMETERY (FERENE) | 241.07 | 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 |
| 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):

1.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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| | Dr. Vinay Cl MD (Pathology C Chairman & Co | & Microbiology) | Dr. Yugam C MD (Pa CEO & Consultant Pa | thology) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|
| NAME | : Mr. A.K GUPTA | | | |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD | , AMBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference inter |
| | | ENDOCRINO | LOGY | |
| | T | HYROID FUNCTION | FEST: TOTAL | |
| | | TROID FUNCTION | | |
| TRIIODOTHYRONI by CMIA (CHEMILUMII | | 0.863 | ng/mL | 0.35 - 1.93 |
| by CMIA (CHEMILUMII THYROXINE (T4): 3 | NE (T3): SERUM | 0.863 ASSAY) 5.78 | | 0.35 - 1.93 4.87 - 12.60 |
| by CMIA (CHEMILUMII THYROXINE (T4): 5 by CMIA (CHEMILUMII THYROID STIMULA | NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM | 0.863 ASSAY) 5.78 ASSAY) UM 1.424 | ng/mL | |
| by CMIA (CHEMILUMII THYROXINE (T4): 3 by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT | NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SER NESCENT MICROPARTICLE IMMUNOA | 0.863 ASSAY) 5.78 ASSAY) UM 1.424 | ng/mL µgm/dL | 4.87 - 12.60 |
| by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT <u>INTERPRETATION</u> : | NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SER NESCENT MICROPARTICLE IMMUNOA TRASENSITIVE | 0.863 ASSAY) 5.78 ASSAY) UM 1.424 ASSAY) | ng/mL µgm/dL µlU/mL | 4.87 - 12.60 0.35 - 5.50 |
| by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa | NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SER NESCENT MICROPARTICLE IMMUNOA TRASENSITIVE circadian variation, reaching peak leve | 0.863 ASSAY) 5.78 ASSAY) UM 1.424 ASSAY) Is between 2-4 a.m and at a min TSH stimulates the production a | ng/mL µgm/dL µIU/mL nimum between 6-10 pm. 7 and secretion of the metal | 4.87 - 12.60 0.35 - 5.50 |
| by CMIA (CHEMILUMII THYROXINE (T4): : by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa | NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOA SERUM NESCENT MICROPARTICLE IMMUNOA ATING HORMONE (TSH): SER NESCENT MICROPARTICLE IMMUNOA TRASENSITIVE circadian variation, reaching peak leve measured serum TSH concentrations. T ilure at any level of regulation of the h | 0.863 ASSAY) 5.78 ASSAY) UM 1.424 ASSAY) Is between 2-4 a.m and at a min TSH stimulates the production a | ng/mL µgm/dL µIU/mL nimum between 6-10 pm. 7 and secretion of the metal | 4.87 - 12.60 0.35 - 5.50 |

| CLINICAL CONDITION | 13 | 14 | ISH |
|------------------------------|-----------------------|-----------------------|---------------------------------|
| 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 (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 | YRONINE (T3) | THYROXINE (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 | |





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| | Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path | | (Pathology) |
|--------------------|-------------------------------------------------------------------------------------|--------------------------|------------------------|
| NAME | : Mr. A.K GUPTA | | |
| AGE/ GENDER | : 75 YRS/MALE | PATIENT ID | : 1664040 |
| COLLECTED BY | : SURJESH | REG. NO./LAB NO. | : 012411070020 |
| REFERRED BY | : | REGISTRATION DATE | : 07/Nov/2024 10:42 AM |
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| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMBALA C | CANTT | |
| 1 | | | |

| Test Name | | | Value | Unit | | 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 | |
| | RECON | IMENDATIONS OF TSH LI | VELS 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.



| | 1 | Dr. Vinay Chopra 1D (Pathology & Microbiology) Chairman & Consultant Pathologi | | (Pathology) |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| AME GE/ GENDER OLLECTED BY EFERRED BY ARCODE NO. LIENT CODE. LIENT ADDRESS | : Mr. A.K GUP : 75 YRS/MALE : SURJESH : : 01520277 : KOS DIAGNO : 6349/1, NICH | | PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE | : 1664040 : 012411070020 : 07/Nov/2024 10:42 AM : 07/Nov/2024 11:14AM : 07/Nov/2024 12:35PM |
| 'est Name | | Value | Unit | Biological Reference interval |
| ITAMIN D (25-HY by Clia (Chemilumin | | N D3): SERUM 59.5 | IYDROXY VITAMIN D3 ng∕mL | B DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| by CLIA (CHEMILUMIN <u>NTERPRETATION:</u> DEFI | IESCENCE IMMUNO. | N D3): SERUM 59.5 ASSAY) < 20 | ng/mL | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| by CLIA (CHEMILUMIN <u>ITERPRETATION:</u> DEFI INSUF | iescence immuno. Icient: Ficient: | N D3): SERUM 59.5 ASSAY) <a> < 20 | ng/mL ng ng | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| by CLIA (CHEMILUMIN <u>VTERPRETATION:</u> DEFI INSUF PREFFER INTOX Vitamin D compou | IESCENCE IMMUNO. ICIENT: FICIENT: ED RANGE: ICATION: INds are derived fi | N D3): SERUM 59.5 ASSAY) 20 21 - 29 30 - 100 > 100 | ng/mL ng ng ng ng ng ng ng ng ng ng ng ng ng | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |





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| | | onsultant Pathologist | CEO & Consultant | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| IAME | : Mr. A.K GUPTA | | | |
| GE/ GENDER | : 75 YRS/MALE | PATI | ENT ID | : 1664040 |
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| LIENT ADDRESS | : 6349/1, NICHOLSON ROAI | | | |
| | . 0040/ 1, MenoLSon Rom | , multiller chivi i | | |
| | | | | |
| | ALAMIN: SERUM ESCENT MICROPARTICLE IMMUNO | Value VITAMIN B12/C 213 DASSAY) | Unit DBALAMIN pg/mL | Biological Reference interv 190.0 - 890.0 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- | ESCENT MICROPARTICLE IMMUNO | VITAMIN B12/C 213 | D BALAMIN pg/mL | 190.0 - 890.0 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS | ESCENT MICROPARTICLE IMMUNC | VITAMIN B12/C 213 DASSAY) | OBALAMIN | 190.0 - 890.0 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN NTERPRETATION:- | ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 nin C | VITAMIN B12/C 213 DASSAY) 1.Pregnancy | D BALAMIN pg/mL | 190.0 - 890.0 B12 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam | ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 nin C gen in A | VITAMIN B12/C 213 DASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges | DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion | 190.0 - 890.0 B12 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam 4.Hepatocellular in | ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 nin C gen nin A jury | VITAMIN B12/C 213 DASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges 4. Contracepti | DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones | 190.0 - 890.0 B12 |
| /ITAMIN B12/COB by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitam 2.Ingestion of Estrog 3.Ingestion of Vitam | ESCENT MICROPARTICLE IMMUNO ED VITAMIN B12 nin C gen nin A jury | VITAMIN B12/C 213 DASSAY) 1.Pregnancy 2.DRUGS:Aspi 3.Ethanol Iges | DBALAMIN pg/mL DECREASED VITAMIN rin, Anti-convulsants, tion ve Harmones sis | 190.0 - 890.0 B12 |

7. Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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

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







| NAME : Mr. A.K. GUPTA ACE/_GRIDER : 75 YRS/MALR PATIENT ID : 1664040 COLLECTED BY : SURPESH REG. NO./LAB NO. : 012411070020 REFERRED BY : : 012611070020 : 012411070020 REFERRED BY :: : 07/Nov/202410.42 AM BARCODE NO. : 01520277 COLLECTION DATE : 07/Nov/202410.42 AM CLIENT CODE :: :: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : <td< th=""><th></th><th></th><th>Chopra gy & Microbiology) Consultant Pathologist</th><th></th><th>(Pathology)</th><th></th></td<> | | | Chopra gy & Microbiology) Consultant Pathologist | | (Pathology) | |
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| COLLECTED BY SURJESH REG. NO. / LAB NO. : 012411070020 REFERRED BY : 07/Nov/2024 10:42 AM BARCODE NO. : 01520277 COLLECTION DATE : 07/Nov/2024 11:14AM CLIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE : 07/Nov/2024 11:52AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT :::::::::::::::::::::::::::::::::::: | NAME | : Mr. A.K GUPTA | | | | |
| REFERRED BY :::::::::::::::::::::::::::::::::::: | AGE/ GENDER | : 75 YRS/MALE | | PATIENT ID | : 1664040 | |
| BARCODE NO. : 01520277 COLLECTION DATE : 07/Nov/2024 11:14AM CLIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 07/Nov/2024 11:52AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT :: 07/Nov/2024 11:52AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT Biological Reference interval CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION QUANTITY RECIEVED 10 ml by DP STICKREFLECTANCE SPECTROPHOTOMETRY AMBER YELLOW PALE YELLOW by DP STICKREFLECTANCE SPECTROPHOTOMETRY CLEAR CLEAR DY DIV STICKREFLECTANCE SPECTROPHOTOMETRY <=1.005 1.002 - 1.030 DY DIV STICKREFLECTANCE SPECTROPHOTOMETRY <=1.005 1.002 - 1.030 DY DIV STICKREFLECTANCE SPECTROPHOTOMETRY Negative NEGATIVE (-ve) DY DIV STICKREFLECTANCE SPECTROPHOTOMETRY Negative NEGATI | COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | : 012411070020 | |
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| RED BLOOD CELLS (RBCs)NEGATIVE (-ve)/HPF0 - 3 | RED BLOOD CELLS | (RBCs) | NEGATIVI | E (-ve) /HPF | 0 - 3 | |

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









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



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

| NAME | : Mr. A.K GUPTA | | | |
|---------------------------------|------------------------------|-------------|-------------------|--------------------------------------|
| AGE/ GENDER | : 75 YRS/MALE | F | PATIENT ID | : 1664040 |
| COLLECTED BY | : SURJESH | F | REG. NO./LAB NO. | : 012411070020 |
| REFERRED BY | : | F | REGISTRATION DATE | : 07/Nov/2024 10:42 AM |
| BARCODE NO. | : 01520277 | C | COLLECTION DATE | :07/Nov/2024 11:14AM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | F | REPORTING DATE | : 07/Nov/2024 11:52AM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AN | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| by MICROSCOPY ON (| CENTRIFUGED URINARY SEDIMENT | | | |
| PUS CELLS by MICROSCOPY ON C | CENTRIFUGED URINARY SEDIMENT | 3-4 | /HPF | 0 - 5 |
| EPITHELIAL CELLS | | 1-2 | /HPF | ABSENT |

| by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT | 1-2 | ADDENT |
|-----------------------------------------------------------------------------------|----------------|----------------|
| 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 ***



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

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