



| | Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta | crobiology) | ME | m Chopra D (Pathology) nt Pathologist |
|-----------------------------------|---|-----------------------------|--------------------------|--|
| NAME | : Mrs. GURJEET KAUR | | | |
| AGE/ GENDER | : 34 YRS/FEMALE | | PATIENT ID | : 1812334 |
| COLLECTED BY | : SURJESH | | REG. NO./LAB NO. | :012503310058 |
| REFERRED BY | : | | REGISTRATION DATE | : 31/Mar/2025 12:38 PM |
| BARCODE NO. | : 01528091 | | COLLECTION DATE | : 31/Mar/2025 12:55PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | REPORTING DATE | : 31/Mar/2025 01:06PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, AMI | BALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | HAEMA | ATOLOGY | |
| | COM | PLETE BLO | OOD COUNT (CBC) |) |
| RED BLOOD CEL | LS (RBCS) COUNT AND INDICH | <u>ES</u> | | |
| HAEMOGLOBIN (H | B) | 9.7 ^L | gm/dL | 12.0 - 16.0 |
| by CALORIMETRIC RED BLOOD CELL | (RBC) COUNT | 4.02 | Million | ns/cmm 3.50 - 5.00 |
| by HYDRO DYNAMIC F | OCUSING, ELECTRICAL IMPEDENCE | | | |
| PACKED CELL VO | LUME (PCV) UTOMATED HEMATOLOGY ANALYZER | 30.9 ^L | % | 37.0 - 50.0 |
| MEAN CORPUSCU | LAR VOLUME (MCV) | 76.8 ^L | fL | 80.0 - 100.0 |
| | UTOMATED HEMATOLOGY ANALYZER LAR HAEMOGLOBIN (MCH) | e di | pg | 27.0 - 34.0 |
| | UTOMATED HEMATOLOGY ANALYZER | 24 ^L | pg | 21.0 - 34.0 |
| by CALCULATED BY A | LAR HEMOGLOBIN CONC. (MCH NUTOMATED HEMATOLOGY ANALYZER | HC) 31.3^L | g/dL | 32.0 - 36.0 |
| | BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER | 17.9 ^H | % | 11.00 - 16.00 |
| RED CELL DISTRI | BUTION WIDTH (RDW-SD) | 51.4 | fL | 35.0 - 56.0 |
| MENTZERS INDEX | | 19.1 | RATIC | D BETA THALASSEMIA TRAIT: |
| by CALCULATED | | | | 13.0 IDON DEELCIENCY ANEMIA |
| | | | | IRON DEFICIENCY ANEMIA: >13.0 |
| GREEN & KING IN | DEX | 108.84 | RATIC | |
| by CALCULATED | | | | <= 65.0 |
| | | | | IRON DEFICIENCY ANEMIA: 65.0 |
| WHITE BLOOD C | ELLS (WBCS) | | | |
| TOTAL LEUCOCY | | 4250 | /cmm | 4000 - 11000 |
| | Y BY SF CUBE & MICROSCOPY BLOOD CELLS (nRBCS) | NIL | | 0.00 - 20.00 |
| by AUTOMATED 6 PAI | RT HEMATOLOGY ANALYZER | THE | | |
| NUCLEATED RED | BLOOD CELLS (nRBCS) % | NIL | % | < 10 % |
| | | | | |



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

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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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| Test Name | | Value | Unit | Biological Reference interval |
| , | UTOMATED HEMATOLOGY ANALYZER EUCOCYTE COUNT (DLC) | | | |
| NEUTROPHILS | BY SF CUBE & MICROSCOPY | 66 | % | 50 - 70 |
| LYMPHOCYTES | BY SF CUBE & MICROSCOPY | 26 | % | 20 - 40 |
| EOSINOPHILS by FLOW CYTOMETRY | BY SF CUBE & MICROSCOPY | 2 | % | 1 - 6 |
| | BY SF CUBE & MICROSCOPY | 6 | % | 2 - 12 |
| • | BY SF CUBE & MICROSCOPY | 0 | % | 0 - 1 |
| | OCYTES (WBC) COUNT | | | |
| ABSOLUTE NEUTR | OPHIL COUNT BY SF CUBE & MICROSCOPY | 2805 | /cmm | 2000 - 7500 |
| ABSOLUTE LYMPH by FLOW CYTOMETRY | OCYTE COUNT BY SF CUBE & MICROSCOPY | 1105 | /cmm | 800 - 4900 |
| ABSOLUTE EOSING | DPHIL COUNT BY SF CUBE & MICROSCOPY | 85 | /cmm | 40 - 440 |
| - | BY SF CUBE & MICROSCOPY | 255 | /cmm | 80 - 880 |
| ABSOLUTE BASOP | HIL COUNT ' BY SF CUBE & MICROSCOPY | 0 | /cmm | 0 - 110 |
| ABSOLUTE IMMAT | URE GRANULOCYTE COUNT | 0 | /cmm | 0.0 - 999.0 |
| PLATELETS AND (| OTHER PLATELET PREDICTIVI | E MARKERS. | | |
| PLATELET COUNT by HYDRO DYNAMIC F | ' (PLT) OCUSING, ELECTRICAL IMPEDENCE | 230000 | /cmm | 150000 - 450000 |
| PLATELETCRIT (P | CT) OCUSING, ELECTRICAL IMPEDENCE | 0.27 | % | 0.10 - 0.36 |
| MEAN PLATELET V by HYDRO DYNAMIC F | /OLUME (MPV) OCUSING, ELECTRICAL IMPEDENCE | 12 | fL | 6.50 - 12.0 |
| by HYDRO DYNAMIC F | CELL COUNT (P-LCC) OCUSING, ELECTRICAL IMPEDENCE | 91000 ^H | /cmm | 30000 - 90000 |
| PLATELET LARGE | CELL RATIO (P-LCR) | 39.8 | % | 11.0 - 45.0 |



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| : 6349/1, NICHOLSON ROAD, AM | IBALA CANT | Т | |
| | Value | Unit | Biological Reference interval |
| FOCUSING, ELECTRICAL IMPEDENCE IBUTION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE ICTED ON EDTA WHOLE BLOOD | 15.8 | % | 15.0 - 17.0 |
| | MD (Pathology & M Chairman & Consul : Mrs. GURJEET KAUR : 34 YRS/FEMALE : SURJESH : : 01528091 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM | : Mrs. GURJEET KAUR : 34 YRS/FEMALE : SURJESH : : 01528091 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANT Value FOCUSING, ELECTRICAL IMPEDENCE IBUTION WIDTH (PDW) 15.8 FOCUSING, ELECTRICAL IMPEDENCE | MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD CEO & Consultant : Mrs. GURJEET KAUR 9ATIENT ID : 34 YRS/FEMALE PATIENT ID : SURJESH REG. NO./LAB NO. : REGISTRATION DATE : 01528091 COLLECTION DATE : KOS DIAGNOSTIC LAB REPORTING DATE : 6349/1, NICHOLSON ROAD, AMBALA CANTT FOCUSING, ELECTRICAL IMPEDENCE Value Unit FOCUSING, ELECTRICAL IMPEDENCE |





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| CLIENT ADDRESS | : 6349/1, NICHO | DLSON ROAD, A | MBALA CANTT | | |
| Test Name | | | Value | Unit | Biological Reference interval |
| | | ERYTHRO | CYTE SEDIN | IENTATION RATE | (ESR) |
| ERYTHROCYTE S | EDIMENTATION | RATE (ESR) | 20 | mm/1st h | ur 0 - 20 |
| An ESR can be affe as C-reactive protein This test may also systemic lupus eryth CONDITION WITH LO | ected by other cond be used to monito ematosus W ESR | health practition ditions besides in r disease activit | er exactly where nflammation. Foi y and response t | the inflammation is in the this reason, the ESR is ty o therapy in both of the a | ion associated with infection, cancer and auto e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as |
| An ESR can be affe as C-reactive protein This test may also systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigi as sickle cells in sick NOTE: ESR and C - reactiv Generally, ESR doe CRP is not affected If the ESR is elevat Women tend to ha | ected by other cond be used to monito ematosus W ESR in with conditions inficantly high whit e cell anaemia) al: e protein (C-RP) ar es not change as ra by as many other ed, it is typically a we a higher ESR, ar iran, methyldopa, | ealth practition ditions besides in r disease activit that inhibit the r te blood cell cou so lower the ESI e both markers pidly as does CR factors as is ESR result of two typ of menstruation oral contracepti | er exactly where nflammation. For y and response t normal sediment int (leucocytosis) R. of inflammation. RP, either at the s , making it a bett pes of proteins, g and pregnancy c | the inflammation is in the this reason, the ESR is ty o therapy in both of the a ation of red blood cells, s , and some protein abno tart of inflammation or a: er marker of inflammatior lobulins or fibrinogen. an cause temporary eleva | e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (suc s it resolves. n . |

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | CLINICAL (| CHEMI | STRY/BIOCHEMIS | STRY |
| | LIVER F | UNCTIO | N TEST (COMPLETE | |
| BILIRUBIN TOTAL by DIAZOTIZATION, SI | :: SERUM PECTROPHOTOMETRY | 0.56 | mg/dL | INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 |
| | T (CONJUGATED): SERUM | 0.16 | mg/dL | 0.00 - 0.40 |
| BILIRUBIN INDIRE by CALCULATED, SPE | ECT (UNCONJUGATED): SERUM | 0.4 | mg/dL | 0.10 - 1.00 |
| SGOT/AST: SERUN by IFCC, WITHOUT PY | Л /RIDOXAL PHOSPHATE | 15 | U/L | 7.00 - 45.00 |
| SGPT/ALT: SERUN by IFCC, WITHOUT PY | Í ÍRIDOXAL PHOSPHATE | 15.8 | U/L | 0.00 - 49.00 |
| AST/ALT RATIO: S by CALCULATED, SPE | | 0.95 | RATIO | 0.00 - 46.00 |
| ALKALINE PHOSP by PARA NITROPHEN PROPANOL | HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL | 60.35 | U/L | 40.0 - 130.0 |
| GAMMA GLUTAM by SZASZ, SPECTROF | IYL TRANSFERASE (GGT): SERUM phtometry | 9.16 | U/L | 0.00 - 55.0 |
| TOTAL PROTEINS by BIURET, SPECTRO | | 6.6 | gm/dL | 6.20 - 8.00 |
| ALBUMIN: SERUM by BROMOCRESOL G | | 4.18 | gm/dL | 3.50 - 5.50 |
| GLOBULIN: SERUN by CALCULATED, SPE | | 2.42 | gm/dL | 2.30 - 3.50 |
| A : G RATIO: SERU by CALCULATED, SPE <u>INTERPRETATION</u> | | 1.73 | RATIO | 1.00 - 2.00 |

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

INCREASED:

| DRUG HEPATOTOXICITY | >2 |
|---------------------|-------------------------|
| ALCOHOLIC HEPATITIS | > 2 (Highly Suggestive) |
| CIRRHOSIS | 1.4 - 2.0 |





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| Test Name | | Value | Unit | Biological Reference interval |
| INTRAHEPATIC CHO | LESTATIS | | > 1.5 | |
| HEPATOCELLULAR C | ARCINOMA & CHRONIC HEPATITIS | | > 1.3 (Slightly Inc | reased) |

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

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

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

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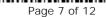






KOS Diagnostic Lab (A Unit of KOS Healthcare)

| ISO 9001 : 2008 CERTI | FIED LAB | | | EXCELLENC | E IN HEALTHCARE | DIAGNOSTICS |
|---|--|--|-----------------------|--|--|--|
| | MD | Vinay Chopra (Pathology & Microbi irman & Consultant P | | |)r. Yugam MD (Consultant | Pathology) |
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| Test Name | | V | alue | | Unit | Biological Reference interval |
| UREA: SERUM by UREASE - GLUTAMA | ATE DEHYDROGENAS | | UR 5.23 | REA | mg/dL | |
| | | IOLOGIST LOGY & MICROBIOLOGY | CONSULT) MBBS , M | m Chopra Ant Patholog Id (Pathology | | |
| KOS Central Lab: 6349/1, KOS Molecular Lab: Ilnd F 0171-2643898, +91 99910 | loor, Parry Hotel, Staf | f Road, Opp. GPO, Amb | oala Cantt - I | | L | Page 7 of 12 |





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

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| Fest Name | | Value | Unit | Biological Reference interval |
| | | CREA | TININE | |
| CREATININE: SERI | | 0.83 | mg/dL | 0.40 - 1.20 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
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| | dim | | hopra | |
| | DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICH | CONSUL | AM CHOPRA TANT PATHOLOGIST MD (PATHOLOGY) | |

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| | | | | |
| Test Name | | Value | Unit | Biological Reference interval |
| Test Name | | Value NOPATHOLO -REACTIVE PR(| GY/SEROLOO | |

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc., 5. Elevated values are consistent with an acute inflammatory process. **NOTE:**

Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.
 Oral contraceptives may increase CRP levels.

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| CLIENT ADDRESS : 6349/1 | , NICHOLSON ROAD, AMB. | ALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | | VIT | AMINS | |
| | VITAMIN | N D/25 HY | DROXY VITAMIN D | 3 |
| VITAMIN D (25-HYDROXY V by CLIA (CHEMILUMINESCENCE IN | | 19.9 ^L | ng/mL | DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0 |
| INTERPRETATION: | | < 20 | | ı/ml |

| DEFICIENT: | < 20 | ng/mL |
|------------------|----------|-------|
| INSUFFICIENT: | 21 - 29 | ng/mL |
| PREFFERED RANGE: | 30 - 100 | ng/mL |
| INTOXICATION: | > 100 | ng/mL |

1. Vitamin D compounds are derived from dietary ergocalciferol (from plants, Vitamin D2), or cholecalciferol (from animals, Vitamin D3), or by conversion of 7- dihydrocholecalciferol to Vitamin D3 in the skin upon Ultraviolet exposure.

2.25-OH--Vitamin D represents the main body resevoir and transport form of Vitamin D and transport form of Vitamin D, being stored in adipose tissue and tightly bound by a transport protein while in circulation.

3. Vitamin D plays a primary role in the maintenance of calcium homeostatis. It promotes calcium absorption, renal calcium absorption and phosphate reabsorption, skeletal calcium deposition, calcium mobilization, mainly regulated by parathyroid harmone (PTH). 4. Severe deficiency may lead to failure to mineralize newly formed osteoid in bone, resulting in rickets in children and osteomalacia in adults. DECREASED:

1.Lack of sunshine exposure.

2.Inadequate intake, malabsorption (celiac disease) 3.Depressed Hepatic Vitamin D 25- hydroxylase activity

4. Secondary to advanced Liver disease

5. Osteoporosis and Secondary Hyperparathroidism (Mild to Moderate deficiency)

6.Enzyme Inducing drugs: anti-epileptic drugs like phenytoin, phenobarbital and carbamazepine, that increases Vitamin D metabolism.

INCREASED: 1. Hypervitaminosis D is Rare, and is seen only after prolonged exposure to extremely high doses of Vitamin D. When it occurs, it can result in severe hypercalcemia and hyperphophatemia.

CAUTION: Replacement therapy in deficient individuals must be monitored by periodic assessment of Vitamin D levels in order to prevent hypervitaminosis D

NOTE:-Dark coloured individuals as compare to whites, is at higher risk of developing Vitamin D deficiency due to excess of melanin pigment which interefere with Vitamin D absorption.



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| REFERRED BY | | | O./LAB NO. | : 012503310058 | |
| | | RECIS | FRATION DATE | : 31/Mar/2025 12:38 PM | |
| DARCODE NO. | : 01528091 | | CTION DATE | : 31/Mar/2025 12:55PM | |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | | TING DATE | : 31/Mar/2025 02:37PM | |
| | : 6349/1, NICHOLSON ROAD, Al | | UING DATE | . 51/ Mai/ 2025 02.571 M | |
| Test Name | | Value | Unit | Biological Reference in | nterval |
| VITAMIN B12/COBAI | LAMIN: SERUM | 225 | BALAMIN pg/mL | 190.0 - 890.0 | |
| INTERPRETATION:- | CENT MICROPARTICLE IMMUNOASS | ΑΥ) | | | |
| INCREASED | O VITAMIN B12 | 1 | ECREASED VITAMIN | IB12 | |
| 1.Ingestion of Vitamin C | | 1.Pregnancy | | | |
| 2.Ingestion of Estrogen | | 2.DRUGS:Aspiri 3.Ethanol Igesti | n, Anti-convulsants, | Colchicine | |
| 4.Hepatocellular injur | B.Ingestion of Vitamin A | | | | |
| 4.Hepatocellular injury 5.Myeloproliferative disorder | | 4. Contraceptive Harmones 5. Haemodialysis | | | |
| 6.Uremia | | 6. Multiple Mye | | | |
| 3. The body uses its vita excreted. 4. Vitamin B12 deficience ileal resection, small in 5. Vitamin B12 deficience proprioception, poor cc the neurologic defects v 6. Serum methylmalonic 7. Follow-up testing for NOTE: A normal serum c deficiency at the cellula | cy may be due to lack of IF secre itestinal diseases). cy frequently causes macrocytic pordination, and affective behav without macrocytic anemia. c acid and homocysteine levels a antibodies to intrinsic factor (IF concentration of vitamin B12 doe | ly, reabsorbing vitamin tion by gastric mucosa anemia, glossitis, perip ioral changes. These m re also elevated in vita) is recommended to id es not rule out tissue de linical symptoms sugg | B12 from the ileum (eg, gastrectomy, g pheral neuropathy, anifestations may c min B12 deficiency entify this potentia eficiency of vitamin | a and returning it to the liver; very lit astric atrophy) or intestinal malabsor weakness, hyperreflexia, ataxia, loss occur in any combination; many patie | ption (eg, of ents have n. nin B12 |





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







| NAME | : Mrs. GURJEET KAUR | | | |
|----------------|--|--------------|-----------------|--|
| AGE/ GENDER | : 34 YRS/FEMALE | PA | TIENT ID | : 1812334 |
| COLLECTED BY | : SURJESH | RE | G. NO./LAB NO. | : 012503310058 |
| REFERRED BY | : | RE | GISTRATION DATE | : 31/Mar/2025 12:38 PM |
| BARCODE NO. | : 01528091 | CO | LLECTION DATE | : 31/Mar/2025 12:55PM |
| CLIENT CODE. | : KOS DIAGNOSTIC LAB | RE | PORTING DATE | : 31/Mar/2025 04:27PM |
| CLIENT ADDRESS | : 6349/1, NICHOLSON ROAD, A | MBALA CANTT | | |
| Test Name | | Value | Unit | Biological Reference interval |
| | VIT | AMIN B9/FOLI | C ACID/FOLATE | |
| | C ACID/FOLATE: SERUM ESCENCE IMMUNOASSAY) | 3.7 | ng/mL | DEFICIENT: < 3.37 INTERMEDIATE: 3.37 - 5.38 NORMAL: > 5.38 |

INTERPRETATION

| RESULT IN ng/mL | REMARKS |
|-----------------|--------------|
| 0.35 – 3.37 | DEFICIENT |
| 3.38 - 5.38 | INTERMEDIATE |
| 5.39 - 100.00 | NORMAL |
| | |

NOTE:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

 Drugs like Methotrexate & Leucovorin interfere with folate measurement
 To differentiate vitamin B12 & folate deficiency, measurement of Methyl malonic acid in urine & serum Homocysteine level is suggested
 Differentiate vitamin falls and is lower to be a suggested in urine with the second sec 3. Risk of toxicity from folic acid is low as it is a water soluble vitamin regularly excreted in urine

COMMENTS:

1. Folate plays an important role in the synthesis of purine & pyrimidines in the body and is important for the maturation of erythrocytes.

 Polate plays an important fore in the synthesis of pulline & pyrinidines in the body and is important for the maturation of erythocytes.
 It is widely available from plants and to a lesser extent organ meats, but more than half the folate content of food is lost during cooking.
 Folate deficiency is commonly prevalent in alcoholic liver disease, pregnancy and the elderly. It may result from poor intestinal absorption, nutrition deficiency, excessive demand as in pregnancy or in malignancy and in response to certain drugs like Methotrexate & anticonvulsants.
 Decreased Levels Megaloblastic anemia, Infantile hyperthyroidism, Alcoholism, Malnutrition, Scurvy, Liver disease, B12 deficiency, dietary amino acid excess, adult Celiac disease, Tropical Sprue, Crohn's disease, Hemolytic anemias, Carcinomas, Myelofibrosis, vitamin B6 deficiency, and server surfacing and server serve pregnancy, Whipple's disease, extensive intestinal resection and severe exfoliative dermatitis

*** End Of Report ***





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

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