



Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

: Mr. SATYAVIR SINGH MA	LIK		
: 72 YRS/MALE		PATIENT ID	: 1608044
:		REG. NO./LAB NO.	: 012409100004
:		REGISTRATION DATE	: 10/Sep/2024 07:15 AM
:01516663		COLLECTION DATE	: 10/Sep/2024 07:20AM
: KOS DIAGNOSTIC LAB		REPORTING DATE	: 10/Sep/2024 08:35AM
: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		
	Value	Unit	Biological Reference interval
BCS) COUNT AND INDICES		IATOLOGY OOD COUNT (CBC)	

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

RED BLOOD CELLS (RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by Calorimetric	10.1 ^L	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COUNT by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	4.19	Millions/cmm	3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	32.9 ^L	%	40.0 - 54.0
MEAN CORPUSCULAR VOLUME (MCV) by calculated by automated hematology analyzer	78.5 ^L	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	24 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	30.6 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WIDTH (RDW-CV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	16.1 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION WIDTH (RDW-SD) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	47.3	fL	35.0 - 56.0
MENTZERS INDEX	18.74	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	30.03	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	8240	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS) by AUTOMATED 6 PART HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELLS (nRBCS) % by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by flow cytometry by sf cube & microscopy	71 ^H	%	50 - 70





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



NAME

AGE/ GENDER

COLLECTED BY

REFERRED BY

BARCODE NO.

CLIENT CODE.

Test Name

CLIENT ADDRESS





Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. SATYAVIR SINGH MALIK AGE/ GENDER : 72 YRS/MALE **PATIENT ID** :1608044 **COLLECTED BY** :012409100004 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 10/Sep/2024 07:15 AM **BARCODE NO.** :01516663 **COLLECTION DATE** : 10/Sep/2024 07:20AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :10/Sep/2024 08:35AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** 17^L LYMPHOCYTES % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 2 EOSINOPHILS % 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 10 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** 5850 ABSOLUTE NEUTROPHIL COUNT /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1401 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 165 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 824 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 415000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.4^H % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 10 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 30000 - 90000 98000^H /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 23.5 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 15.0 - 17.0 PLATELET DISTRIBUTION WIDTH (PDW) 16 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			TRY/BIOCHEMISTRY N TEST (COMPLETE)	1
BILIRUBIN TOTAL: S		0.56	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.00	ing/ de	ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.41	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	26.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	29.5	U/L	0.00 - 49.00
AST/ALT RATIO: SER	UM	0.9	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		68.34	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	23.44	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	6.87	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.83	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		3.04	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE	l	1.26	RATIO	1.00 - 2.00

INTERPRETATION

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

INCREASED:

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





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Test Name		Value	Unit	Biological Reference interval
INTRAHEPATIC CHOL	ESTATIS		> 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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

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	KIDNEY FUNCTION	N TEST (BASIC)	
UREA: SERUM by UREASE - GLUTAMATE DEHYDROGENASE (GLDH)	27.58	mg/dL	10.00 - 50.00
CREATININE: SERUM by ENZYMATIC, SPECTROPHOTOMETERY	0.97	mg/dL	0.40 - 1.40
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometery	12.89	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE RATIO: SERUM by Calculated, spectrophotometery	13.29	RATIO	10.0 - 20.0
UREA/CREATININE RATIO: SERUM by CALCULATED, SPECTROPHOTOMETERY	28.43	RATIO	
URIC ACID: SERUM by uricase - oxidase peroxidase	4.6	mg/dL	3.60 - 7.70



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Test Name	Valu	Je Unit	Biological Reference interval
3.GI hemorrhage. 4.High protein intake 5.Impaired renal fum. 6.Excess protein intal burns, surgery, cache: 7.Urine reabsorption 8.Reduced muscle m. 9.Certain drugs (e.g. t INCREASED RATIO (>2 1.Postrenal azotemia 2.Prerenal azotemia 2.Prerenal azotemia 3.Severe liver disease 4.Other causes of det 5.Repeated dialysis (6.Inherited hyperami 7.SIADH (syndrome o 8.Pregnancy. DECREASED RATIO (<7 1.Phenacimide therap 2.Rhabdomyolysis (re 3.Muscular patients o INAPPROPIATE RATIO 1.Diabetic ketoacido: should produce an in	ction plus . ke or production or tissue breakdown (e.g. kia, high fever). (e.g. ureterocolostomy) ass (subnormal creatinine production) etracycline, glucocorticoids) 20:1) WITH ELEVATED CREATININE LEVELS: (BUN rises disproportionately more than c superimposed on renal disease. 10:1) WITH DECREASED BUN : osis. d starvation. e. creased urea synthesis. urea rather than creatinine diffuses out of monemias (urea is virtually absent in blood f inappropiate antidiuretic harmone) due to 10:1) WITH INCREASED CREATININE: py (accelerates conversion of creatine to cr eleases muscle creatinine). who develop renal failure. :	reatinine) (e.g. obstructive uropat extracellular fluid). I). o tubular secretion of urea. eatinine).	
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST	DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST	

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7







VITAMINS VITAMIN B12/COBALAMIN VITAMIN B12/COBALAMIN VITAMIN B12/COBALAMIN: SERUM by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INTERPRETATION:-	AGE GENDER : 72 YRS/MALE PATIENT ID : 1608044 COLLECTED BY : REG. NO./LAB NO. : 012409100004 REFERRED BY : REGISTRATION DATE : 10/Sep/2024 07:15 AM BARCODE NO. : 01516663 COLLECTION DATE : 10/Sep/2024 07:20AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 10/Sep/2024 11:27AM CLIENT CODE. : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interva VITAMIN B12/COBALAMIN: SERUM 268 pg/mL 190.0 - 890.0 by CMA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) NITEMPRETATION:- NITEMPRETATION:- NITEMPRETATION:- NICREASED VITAMIN B12 1.Pregnancy 2.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Vitamin A 3.Ethanol Igestion 4.Hepatocellular injury 4. Contraceptive Harmones 5.Myeloproliferative disorder 5.Haemodialysis 6.Uremia 6.Multiple Myeloma 1.Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.	AGE' GENDER : 72 YRS/MALE PATIENT ID : 1608044 COLLECTED BY : . REG. NO./LAB NO. : 012409100004 REFERRED BY : . REGISTRATION DATE : 10/Sep/2024 07:11 BARCODE NO. : 01516663 COLLECTION DATE : 10/Sep/2024 07:20 CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 10/Sep/2024 11:27 CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological VITAMIN B12/COBALAMIN: SERUM 268 pg/mL 190.0 - 890 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INTERPRETATION: NITERPRETATION: INCREASED VITAMIN B12 1.Pregnancy 2.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Vitamin A 3.Ethanol Igestion 4.Hepatocellular injury 4. Contraceptive Harmones 5.Myeloproliferative disorder 5.Haemodialysis 6.Uremia 6. Multiple Myeloma 1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function. 2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.	5 AM
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REFERED BY :: REGISTRATION DATE : 10/Sep/2024 07:15 AM BARCODE NO. : 01516663 COLLECTION DATE : 10/Sep/2024 07:20AM CLIENT CODE. :: KOS DIAGNOSTIC LAB REPORTING DATE : 10/Sep/2024 11:27AM CLIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT Init Biological Reference into Test Name Value Unit Biological Reference into VITAMIN B12/COBALAMIN: 268 pg/mL 190.0 - 890.0 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) 268 pg/mL 190.0 - 890.0 INTERPRETATION:- INCREASED VITAMIN B12 1 1 1.Ingestion of Vitamin C 1.Pregnancy 2 2 1 2.Ingestion of Vitamin A 3.Ethanol Igestion 4.Contraceptive Harmones 4.Contraceptive Harmones	REFERRED BY : REGISTRATION DATE : 10/Sep/2024 07:15 AM BARCODE NO. : 01516663 COLLECTION DATE : 10/Sep/2024 07:20AM CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 10/Sep/2024 11:27AM CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit Biological Reference interva VITAMINS VITAMIN B12/COBALAMIN: SERUM 268 pg/mL 190.0 - 890.0 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INTERPRETATION:- INTERPRETATION:- INTERPRETATION:- INTERPRETATION:- INTERPRETATION:- INTERPRETATION:- INGRASED VITAMIN B12 DECREASED VITAMIN B12 1.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Vitamin A 3.Ethanol Igestion 4.Hepatocellular injury 4. Contraceptive Harmones 5.Myeloproliferative disorder 5.Haemodialysis 6.Uremia 6. Multiple Myeloma 1.Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.	REFERRED BY : REGISTRATION DATE : 10/Sep/2024 07:13 BARCODE NO. : 01516663 COLLECTION DATE : 10/Sep/2024 07:20 CLIENT CODE. : KOS DIAGNOSTIC LAB REPORTING DATE : 10/Sep/2024 11:27 CLIENT CODE. : 6349/1, NICHOLSON ROAD, AMBALA CANTT : : : Test Name Value Unit Biological VITAMINS VITAMIN B12/COBALAMIN VITAMIN B12/COBALAMIN: SERUM by CMA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) INCREASED VITAMIN B12 1.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Vitamin C 2.DRUGS:Aspirin, Anti-convulsants, Colchicine 3.Ingestion of Vitamin A 3.Ethanol Igestion 4.Hepatocellular injury 4. Contraceptive Harmones 5.Myeloproliferative disorder 5.Haemodialysis 6.Uremia 6. Multiple Myeloma 1.Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function. 2.In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.	5 AM
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3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very litt excreted.		4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intes	e liver; very little is
 3. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very litt excreted. 4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores and the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores and the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorphic stores at the secretion by gastric mucosa (eg, gastrectomy, gastric atro	4. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorptio	ileal resection, small intestinal diseases). 5. Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflex	5

proprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia.

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

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.

*** End Of Report ***





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

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