



	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 %



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopi MD (Pathology & Mic Chairman & Consulta	robiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. GURJEET KAUR			
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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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MD (Pathology & M	icrobiology)		(Pathology)
: Mrs. GURJEET KAUR			
: 34 YRS/FEMALE		PATIENT ID	: 1812334
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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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTI	Г	
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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANT	Т	
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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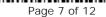






KOS Diagnostic Lab (A Unit of KOS Healthcare)

ISO 9001 : 2008 CERTI	FIED LAB			EXCELLENC	E IN HEALTHCARE	DIAGNOSTICS
	MD	Vinay Chopra (Pathology & Microbi irman & Consultant P)r. Yugam MD (Consultant	Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. GURJEET I : 34 YRS/FEMALE : SURJESH : : 01528091 : KOS DIAGNOSTI : 6349/1, NICHOI		R C R	PATIENT ID REG. NO./LAB REGISTRATIO COLLECTION I REPORTING D	N DATE DATE	: 1812334 : 012503310058 : 31/Mar/2025 12:38 PM : 31/Mar/2025 12:55PM : 31/Mar/2025 02:37PM
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)

		Chopra / & Microbiology) onsultant Pathologist	M	am Chopra ID (Pathology) ant Pathologist
IAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. GURJEET KAUR : 34 YRS/FEMALE : SURJESH : : 01528091 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAI		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1812334 : 012503310058 : 31/Mar/2025 12:38 PM : 31/Mar/2025 12:55PM : 31/Mar/2025 02:37PM
Fest Name		Value	Unit	Biological Reference interval
		CREA	TININE	
CREATININE: SERI		0.83	mg/dL	0.40 - 1.20
	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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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 ***





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