





	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
AGE/ GENDER : 7 COLLECTED BY : 5 REFERRED BY : 6 BARCODE NO. : 6 CLIENT CODE. : 1 CLIENT ADDRESS : 6	Mr. H.C JAIN 78 YRS/MALE SURJESH CENTRAL PHOENIX CLUB (AMBAI D1514044 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT		: 1563748 : 012407290022 : 29/Jul/2024 09:45 AM : 29/Jul/2024 09:54AM : 29/Jul/2024 10:20AM
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: D	
	COM	IPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (RBC				
HAEMOGLOBIN (HB)		12.7	gm/dL	12.0 - 17.0
by CALORIMETRIC				(mm) 2.50 5.00
RED BLOOD CELL (RBC) (by HYDRO DYNAMIC FOC	COUNT USING, ELECTRICAL IMPEDENCE	5.01 ^H	Millions/	/cmm 3.50 - 5.00
PACKED CELL VOLUME (PCV) DMATED HEMATOLOGY ANALYZER	40.7	%	40.0 - 54.0
MEAN CORPUSCULAR V		81.3	fL	80.0 - 100.0
MEAN CORPUSCULAR H	AEMOGLOBIN (MCH)	25.4 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR H	DMATED HEMATOLOGY ANALYZER EMOGLOBIN CONC. (MCHC) DMATED HEMATOLOGY ANALYZER	31.2 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION		18.6 ^H	%	11.00 - 16.00
RED CELL DISTRIBUTION	N WIDTH (RDW-SD)	57 ^H	fL	35.0 - 56.0
by CALCULATED BY AUTO MENTZERS INDEX by CALCULATED	OMATED HEMATOLOGY ANALYZER	16.23	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13
GREEN & KING INDEX by calculated		30.24	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS (W	<u>/BCS)</u>			
TOTAL LEUCOCYTE COU		6400	/cmm	4000 - 11000
NUCLEATED RED BLOOD	SF CUBE & MICROSCOPY) CELLS (nRBCS) DMATED HEMATOLOGY ANALYZER &	NIL		0.00 - 20.00
NUCLEATED RED BLOOD	OMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.







Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. H.C JAIN **AGE/ GENDER** : 78 YRS/MALE **PATIENT ID** :1563748 **COLLECTED BY** : SURJESH :012407290022 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** : 29/Jul/2024 09:45 AM **BARCODE NO.** :01514044 **COLLECTION DATE** : 29/Jul/2024 09:54AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 29/Jul/2024 10:20AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name % 50 - 70 **NEUTROPHILS** 66 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 23 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 7 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 **BASOPHILS** % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 4224 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1472 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 256 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 448 80 - 880 ABSOLUTE MONOCYTE COUNT /cmm 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. 150000 - 450000 PLATELET COUNT (PLT) 258000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.28 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 11 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 84000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 32.7 % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.8 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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NAME	: Mr. H.C JAIN			
AGE/ GENDER	: 78 YRS/MALE		PATIENT ID	: 1563748
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDI	IMENTATION RATE (ESI	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	38 ^H	mm/1st h	nr 0 - 20
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitic ected by other conditions besides be used to monitor disease activ	oner exactly when inflammation. F	re the inflammation is in the or this reason, the ESR is typ	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

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

NOTE:

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
			TRY/BIOCHEMISTR	v
	CLIN		IRT/DIOCHEIVII3IR	•
	CLIN		FASTING (F)	

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 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 I	PROFILE : BASIC	
CHOLESTEROL TOTAL: SERUM by CHOLESTEROL OXIDASE PAP	190.6	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.4
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHATE OXIDASE	135.03 (ENZYMATIC)	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIRECT): SERU	JM 51.17	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOME	ETRY 112.42	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 CHOLESTEROL: SERUM by CALCULATED, SPECTROPHOTOM	<i>ETRY</i> 139.43	H 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 CHOLESTEROL: SERUM by calculated, spectrophotome	27.01	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM	516.23	mg/dL	350.00 - 700.00
by CALCULATED, SPECTROPHOTOME CHOLESTEROL/HDL RATIO: SERUN by CALCULATED, SPECTROPHOTOME	A 3.72	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by calculated, spectrophotome	2.2 ETRY	RATIO	LOW RISK: 2 11.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name	Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD	2.04	RATIO	3.00 - 5.00

INTERPRETATION:

1.Measurements in the same patient can show physiological& analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 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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LIV	FUNCTION TI	EST (COMPLETE)		
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.39	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.16	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by calculated, spectrophotometry	0.23	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	18.95	U/L	7.00 - 45.00	
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	22.94	U/L	0.00 - 49.00	
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	0.83	RATIO	0.00 - 46.00	
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	68.98	U/L	40.0 - 130.0	
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	15.83	U/L	0.00 - 55.0	
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.35	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.65	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by calculated, spectrophotometry	2.7	gm/dL	2.30 - 3.50	
A : G RATIO: SERUM by calculated, spectrophotometry	1.35	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
INTRAHEPATIC CHOLESTATIS	> 1.5





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Test Name	Value	Unit	Biological Reference interval
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 Name		Value	Unit	Biological Reference interval
	к	DNEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		25.12	mg/dL	10.00 - 50.00
by UREASE - GLUTAN	NATE DEHYDROGENASE (GLDH)		0	
CREATININE: SERUN		1.33	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC	DGEN (BUN): SERUM	11.74	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	11.71	nig/ dE	7.0 20.0
	DGEN (BUN)/CREATININE	8.83 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININE I		18.89	RATIO	
by CALCULATED, SPI	ECTROPHOTOMETRY			
URIC ACID: SERUM		5.83	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.78	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	7.70	Thig/ dE	0.00 10.00
PHOSPHOROUS: SEF		4.16	mg/dL	2.30 - 4.70
-	DATE, SPECTROPHOTOMETRY			
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIN		137.2	mmol/L	135.0 - 150.0
POTASSIUM: SERUN		4.33	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN				
CHLORIDE: SERUM		102.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIN	/E ELECTRODE) RULAR FILTERATION RATE			
		F 4 7		
ESTIIVIATED GLUIVIE	RULAR FILTERATION RATE	54.7		

(eGFR): SERUM

by CALCULATED INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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Test Name		Value	Unit	Biological Reference interval
7. Urine reabsorption 8. Reduced muscle n 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemi		ine production) icoids) REATININE LEVELS: onately more than creatin	ion, GI bleeding, thyrotoxic ine) (e.g. obstructive uropa	cosis, Cushing's syndrome, high protein diet, athy).
7. Urine reabsorption 8. Reduced muscle n 9. Certain drugs (e.g. INCREASED RATIO (> 1. Postrenal azotemia DECREASED RATIO (< 1. Acute tubular nect 2. Low protein diet a 3. Severe liver diseas	n (e.g. ureter colostomy), hass (subnormal creatin tetracycline, glucocort 20:1) WITH ELEVATED CF a (BUN rises disproporti superimposed on rena 10:1) WITH DECREASED rosis. nd starvation. e.	ine production) icoids) REATININE LEVELS: onately more than creatin I disease. BUN :		
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2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , 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 ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mr. H.C JAIN				
AGE/ GENDER	: 78 YRS/MALE	PATIENT ID	: 1563748		
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407290022		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 29/Jul/2024 09:45 AM		
BARCODE NO.	: 01514044	COLLECTION DATE	: 29/Jul/2024 09:54AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 29/Jul/2024 12:24PM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTI	2			
Test Name	Value	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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AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. : CLIENT ADDRESS : Test Name	Mr. H.C JAIN 78 YRS/MALE SURJESH CENTRAL PHOENIX CLUB (A 01514044 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD VI XY VITAMIN D3): SERUM	, AMBALA CANTT Value	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1563748 : 012407290022 : 29/Jul/2024 09:45 AM : 29/Jul/2024 09:54AM : 29/Jul/2024 11:14AM Biological Reference interval
COLLECTED BY : : REFERRED BY : : CARCODE NO. : : CLIENT CODE. : : CLIENT ADDRESS : : CELIENT ADDRESS : : Test Name //ITAMIN D (25-HYDRO) by CLIA (CHEMILUMINESC NTERPRETATION: DEFICIEN INSUFFICIEN PREFFERED R	SURJESH CENTRAL PHOENIX CLUB (/ 01514044 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012407290022 : 29/Jul/2024 09:45 AM : 29/Jul/2024 09:54AM : 29/Jul/2024 11:14AM
REFERRED BY : (BARCODE NO. : (CLIENT CODE. :) CLIENT ADDRESS : (Test Name //ITAMIN D (25-HYDRO) by CLIA (CHEMILUMINESC NTERPRETATION: DEFICIEN INSUFFICIEN PREFFERED R	CENTRAL PHOENIX CLUB (A 01514044 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 29/Jul/2024 09:45 AM : 29/Jul/2024 09:54AM : 29/Jul/2024 11:14AM
BARCODE NO. : (CLIENT CODE. :) CLIENT ADDRESS : (Test Name //ITAMIN D (25-HYDRO) by CLIA (CHEMILUMINESC <u>NTERPRETATION:</u> DEFICIEN INSUFFICIEN PREFFERED R	01514044 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	COLLECTION DATE REPORTING DATE	: 29/Jul/2024 09:54AM : 29/Jul/2024 11:14AM
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/ITAMIN D (25-HYDRO) by clia (chemiluminesc <u>Nterpretation:</u> Deficien Insufficien Preffered R			Unit	Biological Reference interval
by CLIA (CHÈMILUMINESC I <u>NTERPRETATION:</u> DEFICIEN INSUFFICII PREFFERED R		VIT		Ū.
by CLIA (CHEMILUMINESC <u>NTERPRETATION:</u> DEFICIEN INSUFFICII PREFFERED R			AMINS	
by CLIA (CHÈMILUMINESC <u>NTERPRETATION:</u> DEFICIEN INSUFFICII PREFFERED R		TAMIN D/25 H	YDROXY VITAMIN D3	
by CLIA (CHÈMILUMINESC <u>NTERPRETATION:</u> DEFICIEN INSUFFICII PREFFERED R	AT VITAIVIIN D3). SEROIVI	45.7	ng/mL	DEFICIENCY: < 20.0
DEFICIEN INSUFFICI PREFFERED R	ENCE IMMUNOASSAY)	43.7	ng/me	INSUFFICIENCY: 20.0 - 30.0
DEFICIEN INSUFFICI PREFFERED R				SUFFICIENCY: 30.0 - 100.0
DEFICIEN INSUFFICI PREFFERED R				TOXICITY: > 100.0
INSUFFICI Preffered r	NIT:	< 20	n	g/mL
PREFFERED R		21 - 29		g/mL
INTOXICAT		30 - 100	n	g/mL
		> 100		g/mL Jecalciferol (from animals, Vitamin D3), or by
issue and tightly bound 3. Vitamin D plays a prim shosphate reabsorption, 4. Severe deficiency may DECREASED: 1. Lack of sunshine expose 2. Inadequate intake, ma 3. Depressed Hepatic Vita 4. Secondary to advanced 5. Osteoporosis and Seco 5. Enzyme Inducing drugs NCREASED: 1. Hypervitaminosis D is severe hypercalcemia an CAUTION: Replacement to hypervitaminosis D NOTE: -Dark coloured indi	by a transport protein whil hary role in the maintenance, skeletal calcium deposition lead to failure to mineralize sure. Alabsorption (celiac disease) amin D 25- hydroxylase active d Liver disease ondary Hyperparathroidism (s: anti-epileptic drugs like ph Rare, and is seen only after hed hyperphophatemia. therapy in deficient individu	e in circulation. e of calcium home h, calcium mobiliza e newly formed os vity Mild to Moderate henytoin, phenoba prolonged exposu als must be monite	ostatis. It promotes calciur ation, mainly regulated by teoid in bone, resulting in i e deficiency) arbital and carbamazepine, ure to extremely high doses ored by periodic assessmer	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in nt of Vitamin D levels in order to prevent ciency due to excess of melanin pigment which
interefere with Vitamin D				
		*** End Of R	eport	

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.