



	Dr. Vinay Chop MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. SHEENAM BATRA : 43 YRS/FEMALE : SURJESH : CENTRAL PHOENIX CLUB (AMBA : 01518281 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMH		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1634037 : 012410040025 : 04/Oct/2024 09:40 AM : 04/Oct/2024 09:45AM : 04/Oct/2024 09:54AM
Test Name		Value	Unit	Biological Reference interval
	SWA	STHYA W	ELLNESS PANEL: D	
			OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB		11.7 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RE		4.14	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN	ME (PCV) automated hematology analyzer	36.2 ^L	%	37.0 - 50.0
MEAN CORPUSCULA	R VOLUME (MCV)	87.4	fL	80.0 - 100.0
	AUTOMATED HEMATOLOGY ANALYZER	28.4	ng	27.0 - 34.0
	AUTOMATED HEMATOLOGY ANALYZER	20.4	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	32.4	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	13.4	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER TION WIDTH (RDW-SD)	12 0	fL	25.0 54.0
	AUTOMATED HEMATOLOGY ANALYZER	43.8	IL IL	35.0 - 56.0
MENTZERS INDEX		21.11	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	X	28.43	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED		20.10	in the	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELL	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C		5320	/cmm	4000 - 11000
NUCLEATED RED BL	y by sf cube & microscopy DOD CELLS (nRBCS)	NIL		0.00 - 20.00
	RT HEMATOLOGY ANALYZER		0/	. 10.0/
	DOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCO				
NEUTROPHILS		56	%	50 - 70
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY			

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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NAME : Mrs. S	SHEENAM BATRA			
AGE/ GENDER : 43 YR	S/FEMALE		PATIENT ID	: 1634037
COLLECTED BY : SURJE	SH		REG. NO./LAB NO.	: 012410040025
REFERRED BY : CENT	RAL PHOENIX CLUB (AM	BALA CANTT)	REGISTRATION DATE	: 04/Oct/2024 09:40 AM
BARCODE NO. : 01518		,	COLLECTION DATE	: 04/Oct/2024 09:45AM
CLIENT CODE. : KOS I	DIAGNOSTIC LAB		REPORTING DATE	:04/Oct/2024 09:54AM
	/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		35	%	20 - 40
by FLOW CYTOMETRY BY SF CU EOSINOPHILS	JBE & MICROSCOPY	4	%	1 - 6
by FLOW CYTOMETRY BY SF CL	JBE & MICROSCOPY	7	70	1-0
MONOCYTES		5	%	2 - 12
by FLOW CYTOMETRY BY SF CU BASOPHILS	JBE & MICROSCOPY	0	%	0 - 1
by FLOW CYTOMETRY BY SF CL	JBE & MICROSCOPY	0	70	0-1
ABSOLUTE LEUKOCYTES (WB	<u>C) COUNT</u>			
ABSOLUTE NEUTROPHIL COU		2979	/cmm	2000 - 7500
by FLOW CYTOMETRY BY SF CU		10/0	laman	200 1000
ABSOLUTE LYMPHOCYTE COL by FLOW CYTOMETRY BY SF CL		1862	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUN		213	/cmm	40 - 440
by FLOW CYTOMETRY BY SF CL		2//		22.222
ABSOLUTE MONOCYTE COUN by FLOW CYTOMETRY BY SF CL		266	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT		0	/cmm	0 - 110
by FLOW CYTOMETRY BY SF CU				
PLATELETS AND OTHER PLAT	ELET PREDICTIVE MARK			150000 (50000
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING,	. ELECTRICAL IMPEDENCE	269000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.29	%	0.10 - 0.36
by HYDRO DYNAMIC FOCUSING,				
MEAN PLATELET VOLUME (N by HYDRO DYNAMIC FOCUSING,		11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT by HYDRO DYNAMIC FOCUSING,	Г (P-LCC)	85000	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO by HYDRO DYNAMIC FOCUSING,	(P-LCR)	31.8	%	11.0 - 45.0
PLATELET DISTRIBUTION WIE by hydro dynamic focusing, NOTE: TEST CONDUCTED ON	DTH (PDW) , <i>electrical impedence</i>	16.3	%	15.0 - 17.0



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BARCODE NO.	: 01518281		COLLECTION DATE	:04/Oct/202409:45AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:04/Oct/2024 10:17AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	FRYTHR	OCYTE SEDIN	MENTATION RATE (ESR	
	MENTATION RATE (ESR)	20	mm/1st hr	0 - 20
	GATION BY CAPILLARY PHOTOMETRY	20	11111/ 15111	0-20
(polycythaemia), sigras sickle cells in sick 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 6. Drugs such as dex	le cell anaemia) also lower the ESR re protein (C-RP) are both markers c es not change as rapidly as does CRI I by as many other factors as is ESR, ed, it is typically a result of two typ ave a higher ESR, and menstruation	nt (leucocytosis of inflammation. P, either at the making it a bet t es of proteins, and pregnancy) , and some protein abnorr ter marker of inflammation or as i ter marker of inflammation. globulins or fibrinogen. can cause temporary elevati	malities. Šome changes in red cell shape (such it resolves.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT Value	Unit	Biological Reference interval
		Value	Unit TRY/BIOCHEMISTR	
		Value IICAL CHEMIST		

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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BIQS 0 9001 : 2008 CERTI		OS Healthcare		
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Test Name		Value	Unit	Biological Reference interval
CHOLESTEROL TOTAL		LIPID PRC 188.44	DFILE : BASIC mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0
TRIGLYCERIDES: SERU by GLYCEROL PHOSPH	JM HATE OXIDASE (ENZYMATIC)	138.06	mg/dL	HIGH CHOLESTEROL: > OR = 240 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (E		38.96	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SI by CALCULATED, SPEC		121.87	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 CHOLESTER by CALCULATED, SPEC		149.48 ^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:		27.61	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	1	514.94	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	RATIO: SERUM <i>СТRОРНОТОМЕТКУ</i> UM	4.84 ^H 3.13 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0 LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

57 $a_{2,267}$

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.54	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 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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Test Name		Value	Unit	Biological Reference interval
rest Name		Value	Unit	Biological Reference interval
	LI	VER FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM	0.44	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SF	by DIAZOTIZATION, SPECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.32	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	15.3	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL FITOSFITATE	12.8	U/L	0.00 - 49.00
by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE			
AST/ALT RATIO: SER		1.2	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		38.43 ^L	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	12.76	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.02 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.88	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.14 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.81	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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Test Name	Value	Unit	Biological 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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Test Name		Value	Unit	Biological Reference interval
	КІ	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		18.01	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN by ENZYMATIC, SPEC		0.86	mg/dL	0.40 - 1.20
BLOOD UREA NITRO		8.42	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY			
	GEN (BUN)/CREATININE	9.79 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPI	ECTROPHOTOMETRY			
UREA/CREATININE F	RATIO: SERUM	20.94	RATIO	
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY	4.18	ma/dl	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	4.10	mg/dL	2.30 - 0.60
CALCIUM: SERUM		9.34	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.18	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	5.10	iiig/uL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		141.6	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV POTASSIUM: SERUM		4.3	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV		4.3	THHOI/L	3.30 - 3.00
CHLORIDE: SERUM		106.2	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	'E ELECTRODE) RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	85.9		

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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3. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<	xia, high fever). (e.g. ureter colostomy) ass (subnormal creatinine pr tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATII (BUN rises disproportionate superimposed on renal diser (0:1) WITH DECREASED BUN :) NINE LEVELS: ely more than creatinin ase.	ne) (e.g. obstructive uro	oathy).		
 Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia Prerenal azotemia DECREASED RATIO (Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO ((e.g. ureter colostomy) ass (subnormal creatinine pi tetracycline, glucocorticoids 0:1) WITH ELEVATED CREATIO (BUN rises disproportionate superimposed on renal disea (0:1) WITH DECREASED BUN : osis. ad starvation.) VINE LEVELS: ely more than creatinin ase. diffuses out of extract absent in blood). armone) due to tubul TININE:	ellular fluid). ar secretion of urea.	bathy).		
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Severe decrease in GFR	
Kidney failure	



G3b

G4

G5

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

Moderate decrease in GFR

Kidney failure

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



30-59

15-29

<15







	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist				
NAME	: Mrs. SHEENAM BATRA				
AGE/ GENDER	: 43 YRS/FEMALE	PATIENT ID	: 1634037		
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012410040025		
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 04/Oct/2024 09:40 AM		
BARCODE NO.	: 01518281	COLLECTION DATE	: 04/Oct/2024 09:45AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:04/Oct/2024 11:26AM		
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	ſ			
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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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







	MD (Pathology &	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) st CEO & Consultant Pathologist		
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AGE/ GENDER	: 43 YRS/FEMALE		PATIENT ID	: 1634037		
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BARCODE NO.			COLLECTION DATE	: 04/Oct/2024 09:45AM		
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Oct/2024 10:56AN	1	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT				
T+ NI		Makas	11-14	Dista singl Dat		
Test Name		Value	Unit	Biological Ref	erence interval	
	VIT ROXY VITAMIN D3): SERUM <i>ESCENCE IMMUNOASSAY</i>)		TAMINS IYDROXY VITAMIN D3 ng/mL	DEFICIENCY: < INSUFFICIENC	Y: 20.0 - 30.0	
INTERPRETATION:				SUFFICIENCY: TOXICITY: > 1		
DEFI	CIENT:	< 20		ng/mL		
	FICIENT:	21 - 29		ng/mL		
	ED RANGE:	30 - 100 > 100		ng/mL		
tissue and tightly bo 3. Vitamin D plays a p phosphate reabsorph 4. Severe deficiency r DECREASED: 1. Lack of sunshine ex 2. Inadequate intake, 3. Depressed Hepatic 4. Secondarv to advar 5. Osteoporosis and S 6. Enzyme Inducing d INCREASED: 1. Hypervitaminosis I severe hypercalcemin CAUTION: Replacement hypervitaminosis D	malabsorption (celiac disease) Vitamin D 25- hydroxylase activi aced Liver disease becondary Hyperparathroidism (N rugs: anti-epileptic drugs like phe D is Rare, and is seen only after p a and hyperphophatemia. ent therapy in deficient individual <i>individuals as compare to whites</i> ,	in circulation. of calcium home calcium mobilizi newly formed os ty Aild to Moderate enytoin, phenoba rolonged exposu	eostatis. It promotes calciu ation, mainly regulated by steoid in bone, resulting in e deficiency) arbital and carbamazepine ure to extremely high dose cored by periodic assessme	m absorption, renal calciun parathyroid harmone (PTH rickets in children and oste , that increases Vitamin D n s of Vitamin D. When it occu nt of Vitamin D levels in orc	n absorption and). omalacia in adults. netabolism. urs, it can result in ler to prevent	
		** End Of R	4			





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.