

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



Dr. Vinay Cho MD (Pathology & 1 Chairman & Const				Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. SATISH KUMAR : 80 YRS/MALE : SURJESH : : 01515471 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAE		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1587528 : 012408220024 : 22/Aug/2024 09:46 AM : 22/Aug/2024 10:04AM : 22/Aug/2024 10:18AM
Test Name		Value	Unit	Biological Reference interval
	9	WASTHYA WE	LLNESS PANEL: D	
			OD COUNT (CBC)	
RED BLOOD CELLS (RE	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		14.6	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RB0	C) COUNT	4.79	Millions/cm	nm 3.50 - 5.00
by HYDRO DYNAMIC FO PACKED CELL VOLUM	CUSING, ELECTRICAL IMPEDENC F (PCV)	<i>5E</i> 45.1	%	40.0 - 54.0
by CALCULATED BY AU	TOMATED HEMATOLOGY ANALY	ZER		
	TOMATED HEMATOLOGY ANALY		fL	80.0 - 100.0
	HAEMOGLOBIN (MCH)	30.4 ZER	pg	27.0 - 34.0
MEAN CORPUSCULAR	HEMOGLOBIN CONC. (MCHO TOMATED HEMATOLOGY ANALY	C) 32.3	g/dL	32.0 - 36.0
RED CELL DISTRIBUTI	ON WIDTH (RDW-CV)	13.9	%	11.00 - 16.00
by CALCULATED BY AL RED CELL DISTRIBUTI	<i>itomated hematology analy</i> ON WIDTH (RDW-SD)	2ER 49.2	fL	35.0 - 56.0
	TOMATED HEMATOLOGY ANALY		RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED		19.00	KATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		27.23	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			INON DEFICIENCE ANEIVIA. 203.0
		11910 ^H	/cmm	4000 - 11000
NUCLEATED RED BLO	by sf cube & microscopy OD CELLS (nRBCS) <i>t hematology analyzer</i>	NIL		0.00 - 20.00
NUCLEATED RED BLO		NIL	%	< 10 %
	CYTE COUNT (DLC)	LER		

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







	Dr. Vinay Chop MD (Pathology & M Chairman & Consult	icrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 22/Aug/2024 10:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		37	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	7 ^H	%	1-6
MONOCYTES	BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS	BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE NEUTROP		5717	/cmm	2000 - 7500
ABSOLUTE LYMPHOC		4407	/cmm	800 - 4900
ABSOLUTE EOSINOPI		834 ^H	/cmm	40 - 440
ABSOLUTE MONOCY		953 ^H	/cmm	80 - 880
ABSOLUTE BASOPHIL by FLOW CYTOMETRY	. COUNT ' by sf cube & microscopy	0	/cmm	0 - 110
PLATELETS AND OTH PLATELET COUNT (PL	I <mark>ER PLATELET PREDICTIVE MARKE</mark> .T)	<u>.RS.</u> 217000	/cmm	150000 - 450000
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36
MEAN PLATELET VOL	OCUSING, ELECTRICAL IMPEDENCE .UME (MPV) OCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
PLATELET LARGE CEL		71000	/cmm	30000 - 90000
PLATELET LARGE CEL		32.7	%	11.0 - 45.0
PLATELET DISTRIBUT by HYDRO DYNAMIC F		16.7	%	15.0 - 17.0





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Aug/2024 10:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT	
Test Name		Value Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIMENTATION RATE (ES	SR)
ERYTHROCYTE SEDI	MENTATION RATE (ESR)	40 ^H mm/1st	hr 0 - 20
by MODIFIED WESTE INTERPRETATION:		t often indicates the presence of inflamma	tion associated with infection, cancer and auto-

NOTE:

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(A Unit of KOS Healthcare)

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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEMISTRY GLUCOSE FAS		Y	
		104.66 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0	
1. A fasting plasma g 2. A fasting plasma g test (after consumpti 3. A fasting plasma g	on of 75 gms of glucose) is recor	considered normal. mg/dl is considered as (nmended for all such p is highly suggestive of (atients. diabetic state. A repe	prediabetic. A fasting and post-prandial blood at post-prandial is strongly recommended for a atory for diabetic state.	





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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	: BASIC	
CHOLESTEROL TOTA	L: SERUM	227.76 ^H	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		221.10	3.4	BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	178.45 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		46.52	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		145.55 ^H	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by CALCULATED, SPE		181.24 ^H	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		35.69	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUN	N	633.97	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	4.9 ^H	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: SER by calculated, spe		3.13 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.84	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name		value	Unit	biological Reference interval
	LIV	ER FUNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.41	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.29	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	22.41	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	24.22	U/L	0.00 - 49.00
AST/ALT RATIO: SER	UM	0.93	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		112.03	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM PHTOMETRY	20.35	U/L	0.00 - 55.0
TOTAL PROTEINS: SE		6.99	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.11	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.88	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		1.43	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

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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INTERPRETATION





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Incr	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).

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	IDNEY FUNCTIO	N TEST (COMPLETE)		
UREA: SERUM		33.34	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)	55.54	Thy de	10.00 30.00	
CREATININE: SERUM		1.41 ^H	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPECTROPHOTOMETERY		15.58	ma/dl	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometry		15.56	mg/dL	7.0 - 25.0	
BLOOD UREA NITROGEN (BUN)/CREATININE		11.05	RATIO	10.0 - 20.0	
RATIO: SERUM					
		00.45	DATIO		
UREA/CREATININE I	RATIO: SERUM ECTROPHOTOMETRY	23.65	RATIO		
URIC ACID: SERUM		8.07 ^H	mg/dL	3.60 - 7.70	
by URICASE - OXIDA	SE PEROXIDASE				
CALCIUM: SERUM		10.13	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SEF	ECTROPHOTOMETRY RUM	3.27	mg/dL	2.30 - 4.70	
	DATE, SPECTROPHOTOMETRY	5.21	ing/ aL	2.00 7.70	
<u>ELECTROLYTES</u>					
Sodium: Serum		142.9	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIVE ELECTRODE)					
POTASSIUM: SERUN		3.66	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		107.18	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIVE ELECTRODE)		107.10	THINO//L	70.0 - 110.0	
	RULAR FILTERATION RATE				
ESTIMATED GLOME	RULAR FILTERATION RATE	50.4			
(eGFR): SERUM					
by CALCULATED					
INTERPRETATION:					

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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CLIENT ADDRESS	: 6349/1, NIC	CHOLSON ROAD, AMB	SALA CANTT			
Test Name			Value	Unit	Biologi	cal Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Pepeated dialysis (osis. nd starvation. e. creased urea sy		out of overage	ellular fluid)		
 Inherited hyperam SIADH (syndrome of the syndrome) 	monemias (ure	a is virtually absent ir	n blood).			
Pregnancy.				lar secretion of urea.		
DECREASED RATIO (< 1. Phenacimide thera	py (accelerates	EASED CREATININE: conversion of creatin				
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients	py (accelerates eleases muscle who develop re	EASED CREATININE: conversion of creatin creatinine).				
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido	py (accelerates eleases muscle who develop re : sis (acetoaceta	EASED CREATININE: conversion of creatin creatinine). nal failure. te causes false increas	e to creatinir	ne).	odologies,resulting in no	rmal ratio when dehydrati
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	py (accelerates eleases muscle who develop re : sis (acetoaceta creased BUN/ci apy (interferes	EASED CREATININE: conversion of creatin creatinine). anal failure. te causes false increas reatinine ratio). with creatinine measu	e to creatinir se in creatini	ne).	odologies,resulting in no	rmal ratio when dehydratio
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERL	py (accelerates eleases muscle who develop re : sis (acetoaceta creased BUN/ci apy (interferes	EASED CREATININE: conversion of creatin creatinine). enal failure. te causes false increas reatinine ratio). with creatinine measu DN RATE:	e to creatinir se in creatini urement).	ne). ne with certain meth		
DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther	py (accelerates eleases muscle who develop re sis (acetoaceta creased BUN/ci apy (interferes JLAR FILTERATIC	EASED CREATININE: conversion of creatin creatinine). anal failure. te causes false increas reatinine ratio). with creatinine measu	e to creatinir se in creatini urement).	ne).	odologies,resulting in no ASSOCIATED FINDINGS No proteinuria	

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.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology) ME	n Chopra D (Pathology) ht Pathologist
NAME	: Mr. SATISH KUMAR		
AGE/ GENDER	: 80 YRS/MALE	PATIENT ID	: 1587528
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012408220024
REFERRED BY	:	REGISTRATION DATE	: 22/Aug/2024 09:46 AM
BARCODE NO.	: 01515471	COLLECTION DATE	: 22/Aug/2024 10:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Aug/2024 01:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT	
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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	MD (Patholog	Chopra y & Microbiology) Consultant Pathologis		(Pathology)
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BARCODE NO.	:01515471		COLLECTION DATE	: 22/Aug/2024 10:04AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Aug/2024 12:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
			AMINS YDROXY VITAMIN D3	
	DROXY VITAMIN D3): SERUM Nescence immunoassay)	40.942	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0
INTERPRETATION:				TOXICITY: > 100.0
	ICIENT:	< 20	n	g/mL
	FICIENT:	21 - 29		g/mL
	RED RANGE:	30 - 100 > 100		g/mLg/mL
	vdrocholecalciferol to Vitamin	voir and transport f	form of Vitomin D and to	
2.25-OHVitamin D i tissue and tightly bo 3.Vitamin D plays a j phosphate reabsorp 4.Severe deficiency i DECREASED: 1.Lack of sunshine e: 2.Inadeguate intake 3.Depressed Hepatic 4.Secondary to adva 5.Osteoporosis and S 6.Enzyme Inducing d INCREASED: 1. Hypervitaminosis severe hypercalcemi CAUTION: Replacemon hypervitaminosis D	represents the main body rese bund by a transport protein wh primary role in the maintenan tion, skeletal calcium depositi may lead to failure to minerali xposure. , malabsorption (celiac diseas c Vitamin D 25- hydroxylase ac nced Liver disease Secondary Hyperparathroidism drugs: anti-epileptic drugs like D is Rare, and is seen only afte ia and hyperphophatemia. ent therapy in deficient indivic <i>Lindividuals as compare to whit</i>	voir and transport f ile in circulation. ce of calcium home on, calcium mobiliza ze newly formed os e) tivity n (Mild to Moderate phenytoin, phenoba er prolonged exposu luals must be monit	form of Vitamin D and trans ostatis. It promotes calciur ation, mainly regulated by teoid in bone, resulting in r 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

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