



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME :	Mrs. ABHA SINGH			
AGE/ GENDER :	67 YRS/FEMALE		PATIENT ID	: 1641389
COLLECTED BY :	SURJESH		REG. NO./LAB NO.	: 012410120028
REFERRED BY :			REGISTRATION DATE	: 12/Oct/2024 11:13 AM
BARCODE NO.	01518750		COLLECTION DATE	: 12/Oct/2024 11:16AM
CLIENT CODE.	KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Oct/2024 11:30AM
CLIENT ADDRESS :	6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	ELLNESS PANEL: 1.5	
			OOD COUNT (CBC)	
RED BLOOD CELLS (RBC	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		11 ^L	gm/dL	12.0 - 16.0
by CALORIMETRIC RED BLOOD CELL (RBC)	COUNT	4.29	Millions/c	mm 3.50 - 5.00
	CUSING, ELECTRICAL IMPEDENCE	l	0/	27.0 50.0
PACKED CELL VOLUME by CALCULATED BY AUT	(PCV) TOMATED HEMATOLOGY ANALYZER	34.8 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR	/OLUME (MCV) TOMATED HEMATOLOGY ANALYZER	81.1	fL	80.0 - 100.0
MEAN CORPUSCULAR I	HAEMOGLOBIN (MCH)	25.5 ^L	pg	27.0 - 34.0
MEAN CORPUSCULAR I	TOMATED HEMATOLOGY ANALYZER HEMOGLOBIN CONC. (MCHC)	31.5 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUTIO		15.8	%	11.00 - 16.00
by CALCULATED BY AUT RED CELL DISTRIBUTIO		48.1	fL	35.0 - 56.0
	OMATED HEMATOLOGY ANALYZER	40.1	11	33.0 - 30.0
MENTZERS INDEX		18.9	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDEX		29.7	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED		27.1	KATIO	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (<u>WBCS)</u>			
	JNT (TLC) y sf cube & microscopy	7410	/cmm	4000 - 11000
NUCLEATED RED BLOO	D CELLS (nRBCS)	NIL		0.00 - 20.00
by AUTOMATED 6 PART	HEMATOLOGY ANALYZER D.CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AUT	OMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL LEUCOC	<u>YTE COUNT (DLC)</u>			
NEUTROPHILS	Y SF CUBE & MICROSCOPY	63	%	50 - 70
by FLOW/CVTOMETRVP				





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	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		29	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	5	70	1-0
MONOCYTES		5	%	2 - 12
	Y BY SF CUBE & MICROSCOPY		04	
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTRO		4668	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	4000	/ cmm	2000 - 7300
ABSOLUTE LYMPHO		2149	/cmm	800 - 4900
-	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOP	PHIL COUNT Y BY SF CUBE & MICROSCOPY	222	/cmm	40 - 440
ABSOLUTE MONOCY		370	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY	010	, on an	
ABSOLUTE BASOPHI		0	/cmm	0 - 110
,	Y BY SF CUBE & MICROSCOPY			
	'L) FOCUSING, ELECTRICAL IMPEDENCE	308000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.36	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	0.00		
MEAN PLATELET VO		12	fL	6.50 - 12.0
	FOCUSING, ELECTRICAL IMPEDENCE		1	30000 00000
PLATELET LARGE CEI	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	114000 ^H	/cmm	30000 - 90000
PLATELET LARGE CE	LL RATIO (P-LCR)	37.1	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	14 5	0/	15.0.17.0
PLATELET DISTRIBU	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.5	%	15.0 - 17.0
	JCTED ON EDTA WHOLE BLOOD			



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	COSYLATED HAEMOG	LOBIN (HBA1C)	
GLYCOSYLATED HAEM		7.6 ^H	%	4.0 - 6.4
STIMATED AVERAGE	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	171.42 ^H	mg/dL	60.00 - 140.00
• •				
• •	AS PER AMERICAN DIABI	ETES ASSOCIATION (ADA):		
NTERPRETATION:	FERENCE GROUP		EMOGLOGIB (HBAIC) ii	n %
NTERPRETATION: RE Non diab	FERENCE GROUP etic Adults >= 18 years	GLYCOSYLATED HI	<5.7	n %
NTERPRETATION: RE Non diab At F	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED HI	<5.7 5.7 – 6.4	n %
NTERPRETATION: RE Non diab At F	FERENCE GROUP etic Adults >= 18 years	GLYCOSYLATED HI	<5.7 5.7 - 6.4 >= 6.5	n %
NTERPRETATION: RE Non diab At F	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED HI	<5.7 5.7 - 6.4 >= 6.5 > 19 Years	
NTERPRETATION: RE Non diab At F Dia	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	GLYCOSYLATED HI S Age Goals of Therapy:	<5.7 5.7 - 6.4 >= 6.5 > 19 Years < 7.0	
NTERPRETATION: RE Non diab At F Dia	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED HI S Age Goals of Therapy: Actions Suggested:	<5.7 5.7 - 6.4 >= 6.5 > 19 Years < 7.0 >8.0	
NTERPRETATION: RE Non diab At F Dia	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	GLYCOSYLATED HI S Age Goals of Therapy: Actions Suggested:	<5.7 5.7 - 6.4 >= 6.5 > 19 Years < 7.0	

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5. Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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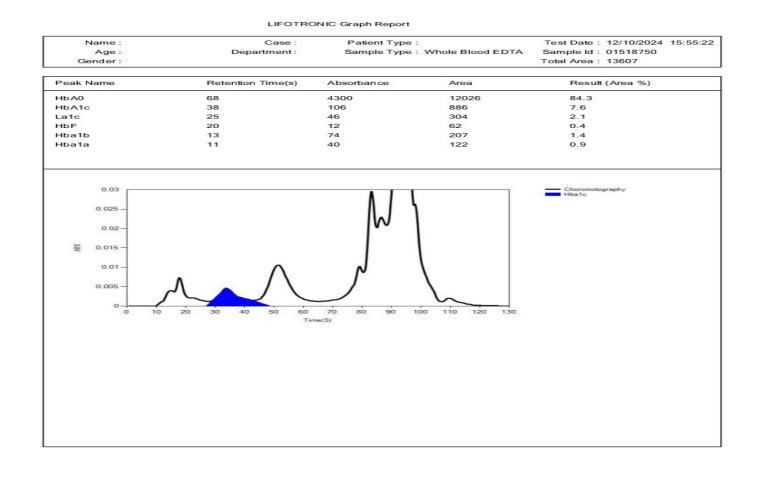
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Test Name		Value Unit	Biological Reference interval





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GH		
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	COLLECTION DATE	: 12/Oct/2024 11:16AM
IC LAB	REPORTING DATE	: 12/Oct/2024 11:40AM
LSON ROAD, AMBALA CAI	NTT	
Value	Unit	Biological Reference interval
ERYTHROCYTE SI	EDIMENTATION RATE (ES	R)
(ESR) 93 ^H RY PHOTOMETRY	mm/1st	hr 0 - 20
ealth practitioner exactly w itions besides inflammation disease activity and respo	where the inflammation is in the n. For this reason, the ESR is ty onse to therapy in both of the a mentation of red blood cells, s	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 uch as a high red blood cell count
h	at inhibit the normal sedi	disease activity and response to therapy in both of the a at inhibit the normal sedimentation of red blood cells, s blood cell count (leucocytosis), and some protein abno lower the ESR.

NOTE:

KOS Diagnostic Lab

(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 CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Oct/2024 12:08PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name	CLIN		Unit TRY/BIOCHEMISTR	
Test Name	CLIN	ICAL CHEMIS		

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		219.71 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	140.41	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		66.73	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		124.9	mg/dL	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 CHOLESTER by CALCULATED, SPE		152.98 ^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:		28.08	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Л	579.83	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPEC	RATIO: SERUM	3.29	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		1.87	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/HD		2.1 ^L	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.

 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.
 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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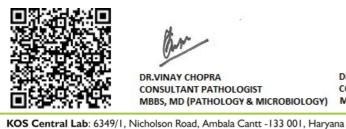
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•=====				
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTI	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: S		0.5	mg/dL	INFANT: 0.20 - 8.00
	PECTROPHOTOMETRY	0.0	mg/ dE	ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.25	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.25	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		25.49	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	24.55	U/L	0.00 - 49.00
	RIDOXAL PHOSPHATE	21.00	0,1	0.00 17.00
AST/ALT RATIO: SER		1.04	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA		115	U/L	40.0 - 150.0
	YL PHOSPHATASE BY AMINO METHYL	110	0/1	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	40	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	RUM	7.83	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.71	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	4.12 ^H	gm/dL	2.30 - 3.50
A : G RATIO: SERUM		0.9 ^L	RATIO	1.00 - 2.00

CTROPHOTOMETRY **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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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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COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012410120028
REFERRED BY	:	REG	ISTRATION DATE	: 12/Oct/2024 11:13 AM
BARCODE NO.	:01518750	COLI	LECTION DATE	: 12/Oct/2024 11:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 12/Oct/2024 01:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
	кі	DNEY FUNCTION TE	EST (COMPLETE)	
UREA: SERUM		31.89	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN		0.84	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		14.0	ma/dl	7.0 - 25.0
	DGEN (BUN): SERUM ECTROPHOTOMETRY	14.9	mg/dL	7.0 - 23.0
	DGEN (BUN)/CREATININE	17.74	RATIO	10.0 - 20.0
RATIO: SERUM				
	ECTROPHOTOMETRY			
UREA/CREATININE I	RATIO: SERUM ectrophotometry	37.96	RATIO	
URIC ACID: SERUM		7.5 ^H	mg/dL	2.50 - 6.80
by URICASE - OXIDA			-	
CALCIUM: SERUM		9.69	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SEF	ECTROPHOTOMETRY RLIM	4.1	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	4.1	Thy/uL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		136.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIN	VE ELECTRODE)			
POTASSIUM: SERUN		3.87	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN	VE ELECTRODE)	102.15	mm cl /l	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	VE ELECTRODE)	102.15	mmol/L	90.0 - 110.0
	ERULAR FILTERATION RATE			
	RULAR FILTERATION RATE	76.1		
(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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant			n Chopra 9 (Pathology) t Pathologist	
NAME	: Mrs. ABH	A SINGH				
AGE/ GENDER	: 67 YRS/FE	MALE	PAT	ENT ID	: 1641389	
COLLECTED BY	: SURJESH		RFG	NO./LAB NO.	:012410120028	
REFERRED BY	. SOIWLSII			STRATION DATE	: 12/Oct/2024 11:13	2 4 M
BARCODE NO.	: 01518750			LECTION DATE	: 12/Oct/2024 11:16	
CLIENT CODE.	: KOS DIAGI			DRTING DATE	: 12/Oct/2024 01:30	OPM
CLIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBAI	LA CANTT			
Test Name			/alue	Unit	Biological	Reference interval
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1	ass (subnorm tetracycline, g 0:1) WITH ELE (BUN rises di superimposed 10:1) WITH DEC	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL : sproportionately more th I on renal disease.		.g. obstructive urop	cosis, Cushing's syndrom athy).	
 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. 10 CREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia 2. Prerenal azotemia 2. DecREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 3. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients 1. Diabetic ketoacido should produce an im 2. Cephalosporin ther 	(e.g. ureter co ass (subnorm tetracycline, c 0:1) WITH ELE (BUN rises di superimposed (0:1) WITH DEC osis. ad starvation. creased urea : urea rather th monemias (ur of inappropiate (0:1) WITH INC py (accelerate eleases muscl who develop : sis (acetoacet creased BUN/ apy (interfere	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL sproportionately more th d on renal disease. CREASED BUN : synthesis. an creatinine diffuses ou ea is virtually absent in b e antidiuretic harmone) d crEASED CREATININE: es conversion of creatine the e creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure ION RATE:	an creatinine) (e t of extracellula lood). ue to tubular sec to creatinine). in creatinine wi ement).	r fluid). cretion of urea. th certain methodole	athy). ogies,resulting in norma	al ratio when dehydration
 Virine reabsorption Reduced muscle m Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia Perenal azotemia Certain drugs (Prerenal azotemia Certain drugs (Postrenal azotemia Certain drugs (Acute tubular necro Low protein diet ar Severe liver disease Other causes of de Repeated dialysis (Inherited hyperam SIADH (syndrome c Pregnancy. PECREASED RATIO (<1 Phenacimide thera Rhabdomyolysis (ru Muscular patients Mappropiate RATIO Diabetic ketoacido cephalosporin ther STIMATED GLOMERL CKD STAGE 	(e.g. ureter co ass (subnorm tetracycline, g 0:1) WITH ELE (BUN rises di superimposed (0:1) WITH DEC osis. ad starvation. e. creased urea a urea rather th monemias (ur of inappropiate (0:1) WITH INC py (accelerate eleases muscl who develop : sis (acetoacet creased BUN/ apy (interfere JLAR FILTERAT	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL: sproportionately more th d on renal disease. CREASED BUN : creatinine diffuses ou ea is virtually absent in b e antidiuretic harmone) d creatiniuretic harmone) d creatinine). renal failure. ate causes false increase creatinine ratio). s with creatinine measure ION RATE: DESCRIPTION	an creatinine) (e t of extracellula lood). ue to tubular sec to creatinine). in creatinine wi ement). GFR (mL/mi	r fluid). cretion of urea. th certain methodole n/1.73m2) AS	athy). ogies,resulting in norma SSOCIATED FINDINGS	al ratio when dehydratior
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 3. Mouscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 3. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	(e.g. ureter co ass (subnorm tetracycline, g 0:1) WITH ELE (BUN rises di superimposed (0:1) WITH DEC osis. ad starvation. e. creased urea : urea rather th monemias (ur of inappropiate (0:1) WITH INC py (accelerate eleases muscl who develop : sis (acetoacet creased BUN/ apy (interfere ULAR FILTERAT	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL: sproportionately more th d on renal disease. CREASED BUN : Synthesis. tan creatinine diffuses ou ea is virtually absent in b e antidiuretic harmone) d CREASED CREATININE: the conversion of creatine the e creatinine). renal failure. atte causes false increase creatinine ratio). s with creatinine measure ION RATE: DESCRIPTION ormal kidney function	an creatinine) (e t of extracellula lood). ue to tubular sec to creatinine). in creatinine wi ement). GFR (mL/mi 	r fluid). cretion of urea. th certain methodole n/1.73m2) AS	athy). ogies,resulting in norma SSOCIATED FINDINGS No proteinuria	al ratio when dehydration
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. NCREASED RATIO (>2 4. Postrenal azotemia 5. Prerenal azotemia 6. Certain drubular necro 6. Low protein diet ar 6. Severe liver disease 6. Other causes of de 6. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (ro 8. Muscular patients 7. NAPPROPIATE RATIO 7. Diabetic ketoacido 7. Naphropiate cation 7. STATED GLOMERL 7. STATED GLOMERL 7. CKD STAGE	(e.g. ureter co ass (subnorm tetracycline, g 0:1) WITH ELE (BUN rises di superimposed (0:1) WITH DEC osis. ad starvation. e. creased urea : urea rather th monemias (ur of inappropiate (0:1) WITH INC py (accelerate eleases muscl who develop : sis (acetoacet creased BUN/ apy (interfere ULAR FILTERAT	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL: sproportionately more th d on renal disease. CREASED BUN : Synthesis. tan creatinine diffuses ou ea is virtually absent in b e antidiuretic harmone) d CREASED CREATININE: the conversion of creatine the e creatinine). renal failure. atte causes false increase creatinine ratio). s with creatinine measure (ON RATE: DESCRIPTION ormal kidney function_ Kidney damage with	an creatinine) (e t of extracellula lood). ue to tubular sec to creatinine). in creatinine wi ement). GFR (mL/mi	r fluid). cretion of urea. th certain methodole n/1.73m2) AS	athy). ogies,resulting in norma SSOCIATED FINDINGS No proteinuria resence of Protein ,	al ratio when dehydratio
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. NCREASED RATIO (>2 1. Postrenal azotemia DECREASED RATIO (<1 1. Acute tubular necro 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome c 8. Pregnancy. DECREASED RATIO (<1 1. Phenacimide thera 2. Rhabdomyolysis (ro 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 3. Mouscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido 3. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	(e.g. ureter co ass (subnorm tetracycline, g 0:1) WITH ELE (BUN rises di superimposed (0:1) WITH DEC osis. ad starvation. e. creased urea : urea rather th monemias (ur of inappropiate (0:1) WITH INC py (accelerate eleases muscl who develop : sis (acetoacet creased BUN/ apy (interfere ULAR FILTERAT N	blostomy) al creatinine production) glucocorticoids) VATED CREATININE LEVEL: sproportionately more th d on renal disease. CREASED BUN : Synthesis. tan creatinine diffuses ou ea is virtually absent in b e antidiuretic harmone) d CREASED CREATININE: the conversion of creatine the e creatinine). renal failure. atte causes false increase creatinine ratio). s with creatinine measure ION RATE: DESCRIPTION ormal kidney function	an creatinine) (e t of extracellula lood). ue to tubular sec to creatinine). in creatinine wi ement). GFR (mL/mi 	r fluid). cretion of urea. th certain methodole n/1.73m2) AS	athy). ogies,resulting in norma SSOCIATED FINDINGS No proteinuria	al ratio when dehydration

G4 G5

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

Severe decrease in GFR

Kidney failure

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

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. ABHA SINGH		
AGE/ GENDER	: 67 YRS/FEMALE	PATIENT ID	: 1641389
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012410120028
REFERRED BY	:	REGISTRATION DATE	: 12/Oct/2024 11:13 AM
BARCODE NO.	: 01518750	COLLECTION DATE	: 12/Oct/2024 11:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 12/Oct/2024 01:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA 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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	٢	Dr. Vinay Chopra 1D (Pathology & Microbiology) Thairman & Consultant Patholog		(Pathology)
NAME	: Mrs. ABHA SI	NGH		
AGE/ GENDER	: 67 YRS/FEMA	LE	PATIENT ID	: 1641389
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012410120028
REFERRED BY	:		REGISTRATION DATE	: 12/Oct/2024 11:13 AM
BARCODE NO.	:01518750		COLLECTION DATE	: 12/Oct/2024 11:16AM
CLIENT CODE.	: KOS DIAGNOS	TIC LAB	REPORTING DATE	: 12/Oct/2024 01:06PM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBALA CANT	ΓT	
Test Name		Value	Unit	Biological Reference interval
		IRC	ON PROFILE	
IRON: SERUM	TROPHOTOMETRY	61.6	μg/dL	50.0 - 170.0
UNSATURATED IRON SERUM by FERROZINE, SPEC			μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	G CAPACITY (TIB		μg/dL	230 - 430
%TRANSFERRIN SAT	URATION: SERUN		%	15.0 - 50.0
TRANSFERRIN: SERU	M	216.69	mg/dL	200.0 - 350.0
INTERPRETATION:-	1.50			
VARIAB	LES RON:	ANEMIA OF CHRONIC DISEASE Normal to Reduced	E IRON DEFICIENCY ANEMI Reduced	A THALASSEMIA α/β TRAIT Normal

VARIABLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA α/β TRAIT
SERUM IRON:	Normal to Reduced	Reduced	Normal
TOTAL IRON BINDING CAPACITY:	Decreased	Increased	Normal
% TRANSFERRIN SATURATION:	Decreased	Decreased < 12-15 %	Normal
SERUM FERRITIN:	Normal to Increased	Decreased	Normal or Increased
IDON.			

IRON:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.
 TOTAL IRON BINDING CAPACITY (TIBC):

 It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow.
 TRANSFERRIN SATURATION:

1.Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	Microbiology)	Dr. Yugam MD (CEO & Consultant	(Pathology)
NAME	: Mrs. ABHA SINGH			
AGE/ GENDER	: 67 YRS/FEMALE	PATI	ENT ID	: 1641389
COLLECTED BY	: SURJESH	REG. I	NO./LAB NO.	: 012410120028
REFERRED BY	:	REGIS	STRATION DATE	: 12/Oct/2024 11:13 AM
BARCODE NO.	: 01518750	COLL	ECTION DATE	: 12/Oct/2024 11:16AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:12/Oct/2024 01:11PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	LOGY	
	Tł	HYROID FUNCTION	TEST: TOTAL	
TRIIODOTHYRONIN		1.052	ng/mL	0.35 - 1.93
by CMIA (CHEMILUMI	NESCENT MICROPARTICLE IMMUNOASS	SAY)	G	
<i>by сміа (снеміluміі</i> THYROXINE (T4): SE	NESCENT MICROPARTICLE IMMUNOASS	say) 9.22	ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60
by CMIA (CHEMILUMI THYROXINE (T4): SE by CMIA (CHEMILUMI THYROID STIMULAT	NESCENT MICROPARTICLE IMMUNOASS RUM NESCENT MICROPARTICLE IMMUNOASS TING HORMONE (TSH): SERUM	say) 9.22 say) 4.214	G	
by CMIA (CHEMILUMI THYROXINE (T4): SE by CMIA (CHEMILUMI THYROID STIMULAT	VESCENT MICROPARTICLE IMMUNOASS RUM VESCENT MICROPARTICLE IMMUNOASS TNG HORMONE (TSH): SERUM VESCENT MICROPARTICLE IMMUNOASS	say) 9.22 say) 4.214	μgm/dL	4.87 - 12.60

CLINICAL CONDITION T3 T4 TSH Primary Hypothyroidism: Reduced Reduced Increased (Significantly) Subclinical Hypothyroidism: Normal or Low Normal Normal or Low Normal High Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased Subclinical Hyperthyroidism: Normal or High Normal Normal or High Normal Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROX	INE (T4)	THYROID STIMU	ATING HORMONE (TSH)
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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DR.YUGAM CHOPRA

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ABHA SINGH			
AGE/ GENDER	: 67 YRS/FEMALE	PAT	IENT ID	: 1641389
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
6 - 12 Months 0	74 - 2 40 6 - 12 Months	7 10 - 16 16 6	- 12 Months 0 70	- 7.00

0.74 - 2.40				
0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50
0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50
0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50
RECOM	JENDATIONS OF TSH LE	VELS DURING PREGN	ANCY (µIU/mL)	
1st Trimester			0.10 - 2.50	
2nd Trimester			0.20 - 3.00	
3rd Trimester			0.30 - 4.10	
	0.35 - 1.93 0.35 - 1.93 RECOMM 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREGN 1st Trimester 2nd Trimester	0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (µU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. ABHA SINGH : 67 YRS/FEMALE : SURJESH : : 01518750 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	R R C R	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1641389 : 012410120028 : 12/Oct/2024 11:13 AM : 12/Oct/2024 11:16AM : 12/Oct/2024 01:49PM
Test Name		Value	Unit	Biological Reference interval
by CLIA (CHÈMILUMIN	DROXY VITAMIN D3): SERUM IESCENCE IMMUNOASSAY)	44.157	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INSUF	ICIENT: FICIENT: ED RANGE:	< 20 21 - 29 30 - 100	n]/mL]/mL]/mL
1.Vitamin D compou conversion of 7- dih 2.25-OHVitamin D tissue and tightly bo 3.Vitamin D plays a phosphate reabsorp 4.Severe deficiency DECREASED: 1.Lack of sunshine e 2.Inadeguate intake 3.Depressed Hepatic 4.Secondary to adva	vdrocholecalciferol to Vitamin D3 represents the main body resevoi und by a transport protein while primary role in the maintenance tion, skeletal calcium deposition, may lead to failure to mineralize xposure. , malabsorption (celiac disease) ; Vitamin D 25- hydroxylase activi nced Liver disease Secondary Hyperparathroidism (N	t in the skin upon U r and transport for in circulation. of calcium homeos calcium mobilizati newly formed oste ty Mild to Moderate d	ants, Vitamin D2), or cho Iltraviolet exposure. m of Vitamin D and trans tatis. It promotes calciur on, mainly regulated by p oid in bone, resulting in r eficiency)	g/mL lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). ickets in children and osteomalacia in adults. that increases Vitamin D metabolism.





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mrs. ABHA SINGH			
GE/ GENDER	: 67 YRS/FEMALE	РАТ	TENT ID	: 1641389
OLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012410120028
EFERRED BY	:	REG	ISTRATION DATE	: 12/Oct/2024 11:13 AM
ARCODE NO.	: 01518750		LECTION DATE	: 12/Oct/2024 11:16AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 12/0ct/2024 01:19PM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD			
Test Name		Value	Unit	Biological Reference interval
/ITAMIN B12/COBA by CMIA (CHEMILUMIN	LAMIN: SERUM IESCENT MICROPARTICLE IMMUNO,	VITAMIN B12/C 275 ASSAY)	OBALAMIN pg/mL	190.0 - 890.0
by CMIA (CHEMILUMIN NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNO,	275	pg/mL	
by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS	IESCENT MICROPARTICLE IMMUNO, SED VITAMIN B12	275 ASSAY)		
by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO, SED VITAMIN B12 nin C	275 ASSAY) 1.Pregnancy	pg/mL	I B12
by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen	275 ASSAY) 1.Pregnancy 2.DRUGS:Asp	pg/mL DECREASED VITAMIN	I B12
by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A	275 ASSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	pg/mL DECREASED VITAMIN	I B12
by CMIA (CHEMILUMIN <u>VTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Stro 3.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A jury	275 ASSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige	pg/mL DECREASED VITAMII irin, Anti-convulsants stion tive Harmones	I B12
by CMIA (CHEMILUMIN INTERPRETATION:- INCREAS 1.Ingestion of Vitan 2.Ingestion of Vitan 4.Hepatocellular in 5.Myeloproliferativ 6.Uremia I.Vitamin B12 (cobal	IESCENT MICROPARTICLE IMMUNO SED VITAMIN B12 nin C gen nin A jury	275 ASSAY) 1.Pregnancy 2.DRUGS:Asp 3.Ethanol Ige 4. Contracept 5.Haemodial 6. Multiple M poolesis and normal neur	pg/mL DECREASED VITAMIN irin, Anti-convulsants stion tive Harmones ysis lyeloma ronal function.	I B12

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.





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		TING DATE	: 12/Oct/2024 12:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
	URINE RO	OUTINE & MICROSCO	OPIC EXAMINAT	ION
PHYSICAL EXAMINA				
QUANTITY RECIEVE		10	ml	
	TANCE SPECTROPHOTOMETRY	10		
COLOUR		AMBER YELLOW		PALE YELLOW
	CTANCE SPECTROPHOTOMETRY	HAZY		CLEAR
TRANSPARANCY by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	ΠΑΖΙ		CLEAR
SPECIFIC GRAVITY		1.01		1.002 - 1.030
-	TANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	ATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		NEUTRAL		
PROTEIN	TANCE SPECIROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	nogunio		
SUGAR		Negative		NEGATIVE (-ve)
pH	TANCE SPECTROPHOTOMETRY	7		5.0 - 7.5
μη by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		1		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY	Negativo		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-Ve)
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Negativo		
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD		Negative		NEGATIVE (-ve)
-	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist SINGH Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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

lest name	value	Unit	Biological Reference Interval
RED BLOOD CELLS (RBCs)	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	0 - 5
PITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-4	/HPF	ABSENT
RYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
THERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
RICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

*** End Of Report ***





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