



				DIAGNOSTICS
	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultan	obiology)	Dr. Yugam MD ( CEO & Consultant I	Pathology)
NAME : Mr. N.N	SHARMA			
AGE/ GENDER : 83 YRS/	/MALE	PA	ATIENT ID	: 1678344
COLLECTED BY :		RI	EG. NO./LAB NO.	: 012411210046
REFERRED BY :		RI	EGISTRATION DATE	: 21/Nov/2024 03:51 PM
<b>BARCODE NO.</b> : 015212			DLLECTION DATE	: 21/Nov/2024 03:57PM
	AGNOSTIC LAB , NICHOLSON ROAD, AMBA		EPORTING DATE	: 21/Nov/2024 04:30PM
<b>EIENT ADDRESS</b> . 03407 1	, MCHOLSON ROAD, AMDA			
Test Name		Value	Unit	<b>Biological Reference interval</b>
	SWASTE	IVA WELL	NESS PANEL: 1.5	
			D COUNT (CBC)	
RED BLOOD CELLS (RBCS)				
HAEMOGLOBIN (HB)		5.8 <sup>L</sup>	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC) COL		3.79	Millions/o	cmm 3.50 - 5.00
PACKED CELL VOLUME (PCV by CALCULATED BY AUTOMATED	)	21.8 <sup>L</sup>	%	40.0 - 54.0
MEAN CORPUSCULAR VOLUM by CALCULATED BY AUTOMATED	ME (MCV)	57.4 <sup>L</sup>	fL	80.0 - 100.0
AEAN CORPUSCULAR HAEM	OGLOBIN (MCH)	14.9 <sup>L</sup>	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMC	GLOBIN CONC. (MCHC)	25.9 <sup>L</sup>	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION W	IDTH (RDW-CV)	18.6 <sup>H</sup>	%	11.00 - 16.00
RED CELL DISTRIBUTION W	IDTH (RDW-SD)	39.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.15	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		27.43	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBC	<u>'S)</u>			
FOTAL LEUCOCYTE COUNT ( by flow cytometry by sf cue		7280	/cmm	4000 - 11000
Dy FLOW GTIOMEIRT BY SF CUE		NIL		0.00 - 20.00
NUCLEATED RED BLOOD CE				





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Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT		

Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	77 <sup>H</sup>	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	14 <sup>L</sup>	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by flow cytometry by SF cube & microscopy	5606	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by flow cytometry by sf cube & microscopy	1019	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by flow cytometry by SF cube & microscopy	146	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	510	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND OTHER PLATELET PREDICTIVE	<u>MARKERS.</u>		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	338000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.36	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	11	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	115000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	34.1	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	15.6	%	15.0 - 17.0
ADVICE	KINDLY CORREL	LATE CLINICALLY	



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Test Name	Value	Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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Test Name		Value	Unit	<b>Biological Reference interval</b>
Test Name	GLY			Biological Reference interval
		COSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD by hplc (high perform	MOGLOBIN (HbA1c):	COSYLATED HAEMO 6.3	GLOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGH by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c):	COSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGH by HPLC (HIGH PERFORM	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY)	COSYLATED HAEMO 6.3	GLOBIN (HBA1C) %	4.0 - 6.4
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGH by HPLC (HIGH PERFORM INTERPRETATION:	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY)	COSYLATED HAEMO 6.3 134.11 SETES ASSOCIATION (ADA):	GLOBIN (HBA1C) %	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabe	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years	COSYLATED HAEMO 6.3 134.11 SETES ASSOCIATION (ADA):	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) ir <5.7	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diaba At R	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years isk (Prediabetes)	COSYLATED HAEMO 6.3 134.11 SETES ASSOCIATION (ADA):	<b>GLOBIN (HBA1C)</b> % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diaba At R	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years	COSYLATED HAEMO 6.3 134.11 EETES ASSOCIATION (ADA): GLYCOSYLATED I	<b>GLOBIN (HBA1C)</b> % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diaba At R	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years isk (Prediabetes)	COSYLATED HAEMO 6.3 134.11 SETES ASSOCIATION (ADA): GLYCOSYLATED I	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabe At R Diag	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE WANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years isk (Prediabetes) gnosing Diabetes	COSYLATED HAEMO 6.3 134.11 SETES ASSOCIATION (ADA): GLYCOSYLATED I GLYCOSYLATED I Gals of Therapy:	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years < 7.0	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabe At R Diag	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE ANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years isk (Prediabetes)	COSYLATED HAEMO 6.3 134.11 ETES ASSOCIATION (ADA): GLYCOSYLATED I GLYCOSYLATED I COGals of Therapy: Actions Suggested:	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 je > 19 Years <7.0 >8.0	4.0 - 6.4 60.00 - 140.00
GLYCOSYLATED HAEN WHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE by HPLC (HIGH PERFORM INTERPRETATION: REI Non diabe At R Diag	MOGLOBIN (HbA1c): ANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE WANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAE FERENCE GROUP etic Adults >= 18 years isk (Prediabetes) gnosing Diabetes	COSYLATED HAEMO 6.3 134.11 ETES ASSOCIATION (ADA): GLYCOSYLATED I GLYCOSYLATED I COGals of Therapy: Actions Suggested:	GLOBIN (HBA1C) % mg/dL HEMOGLOGIB (HBAIC) ir <5.7 5.7 - 6.4 >= 6.5 ge > 19 Years < 7.0	4.0 - 6.4 60.00 - 140.00

### 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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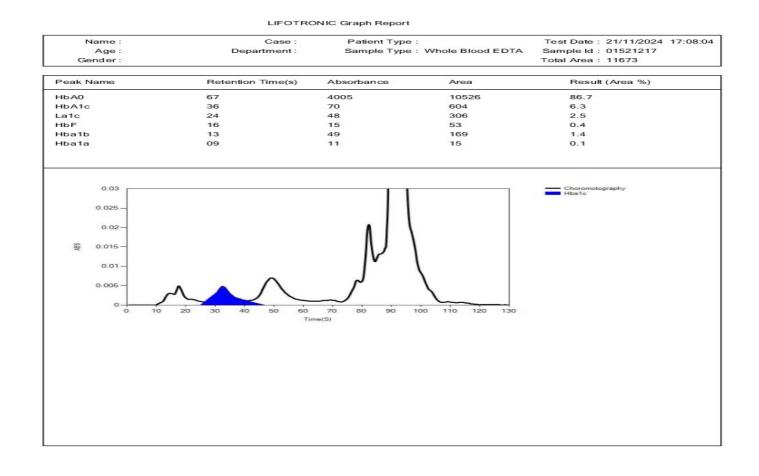


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Test Name		Value Unit	Biological Reference interval
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	Dr. Vinay Chopra	a 🔰 Dr. Yugai	m Chopra





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	ERYTHRO	CYTE SEDIMENTA	ATION RATE (ES	R)
mmune disease <sup>'</sup> , but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth <b>CONDITION WITH LO</b>	does not tell the health practitione ected by other conditions besides int be used to monitor disease activity ematosus <b>W ESR</b> In with conditions that inhibit the no	r exactly where the inf lammation. For this re and response to thera ormal sedimentation o	lammation is in the b ason, the ESR is typic py in both of the abo f red blood cells, sucl	ally used in conjunction with other test such ve diseases as well as some others, such as





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**REGISTRATION DATE** 

**COLLECTION DATE** 

**REPORTING DATE** 

 Dr. Vinay Chopra<br/>MD (Pathology & Microbiology)<br/>Chairman & Consultant Pathologist
 Dr. Yugam Chopra<br/>MD (Pathology)<br/>CEO & Consultant Pathologist

 : Mr. N.N SHARMA
 :
 :

 : 83 YRS/MALE
 PATIENT ID
 :

 : Consultant
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 : Mr. N.N SHARMA
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**AGE/ GENDER** 

NAME

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: **012411210046** : 21/Nov/2024 03:51 PM : 21/Nov/2024 03:57PM : 21/Nov/2024 04:58PM

# PERIPHERAL BLOOD SMEAR

## **TEST NAME:**

## PERIPHERAL BLOOD FILM/SMEAR (PBF)

# RED BLOOD CELLS (RBC'S):

Anisocytosis with microcytosis.RBCs reveal moderate to marked hypochromia.Occ. polychromatic cells seen.No normoblasts noted.

## WHITE BLOOD CELLS (WBC'S)

No immature leucocytes seen.

## **PLATELETS:**

Platelets are adequate.

### **HEMOPARASITES:**

NOT SEEN.

## **IMPRESSION:**

Microcytic hypochromic anemia.





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Test Name			Value	Unit	Biological Reference interval
		CLINI	CAL CHEMIS	TRY/BIOCHEMIST	'RY
			GLUCOSE	FASTING (F)	
GLUCOSE FASTING		GOD-POD)	139.07 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

**IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:** 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 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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Test Name		Value	Unit	<b>Biological Reference interval</b>
		LIPID PROFILE	. DASIC	
CHOLESTEROL TO by CHOLESTEROL OX		142.3	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSF	ERUM phate oxidase (enzymatic)	104.2	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO	L (DIRECT): SERUM	33.76	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		87.7	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 CHOLEST by CALCULATED, SPE		108.54	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 CHOLESTER		20.84	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SER by CALCULATED, SPE	RUM	388.8	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	4.22	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Ch MD (Pathology & Chairman & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. N.N SHARMA			
AGE/ GENDER	: 83 YRS/MALE	I	PATIENT ID	: 1678344
COLLECTED BY	:	I	REG. NO./LAB NO.	: 012411210046
<b>REFERRED BY</b>	:	I	REGISTRATION DATE	: 21/Nov/2024 03:51 PM
BARCODE NO.	:01521217	(	COLLECTION DATE	: 21/Nov/2024 03:57PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 21/Nov/2024 05:54PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.6	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	3.09	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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KOS Diagnostic Lab (A Unit of KOS Healthcare)	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS
Dr. Vinay Chopra	Dr. Yugam Chopra
MD (Pathology & Microbiology)	MD (Pathology)
Chairman & Consultant Pathologist	CEO & Consultant Pathologist

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Test Name	Value	Unit	<b>Biological Reference interval</b>
LIVER	FUNCTION TE	ST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.89	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.26	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.63	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	21.55	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	11.44	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.88	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	81.32	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	20.66	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.79	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.05	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.74	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.48	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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Test Name	Va	alue 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).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



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	AGE/ GENDER	: 83 YRS/MALE		PATIENT ID	: 1678344	
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	CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
l	Test Name		Value	Unit	<b>Biological Reference int</b>	erval
		KIDN	EY FUNCTIO	N TEST (COMPLETE)		
	UREA: SERUM		25.21	mg/dL	10.00 - 50.00	
	by UREASE - GLUTAM	ATE DEHYDROGENASE (GLDH)		Ŭ		
	CREATININE: SERU		1.48 <sup>H</sup>	mg/dL	0.40 - 1.40	
		OGEN (BUN): SERUM	11.78	mg/dL	7.0 - 25.0	
	BLOOD UREA NITR RATIO: SERUM	OGEN (BUN)/CREATININE	7.96 <sup>L</sup>	RATIO	10.0 - 20.0	
	by CALCULATED, SPE		17.00	DATE		
	UREA/CREATININE by CALCULATED, SPE		17.03	RATIO		
	URIC ACID: SERUM		7.09	mg/dL	3.60 - 7.70	
	by URICASE - OXIDASI CALCIUM: SERUM	E PEROXIDASE	9.28	mg/dL	8.50 - 10.60	
	by ARSENAZO III, SPEC	CTROPHOTOMETRY	0.20	ing, ut	0.00 10.00	
	PHOSPHOROUS: SE	RUM ate, spectrophotometry	2.61	mg/dL	2.30 - 4.70	
	ELECTROLYTES	ATE, SPECIROPHOTOMETRY				
	SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	132.5 <sup>L</sup>	mmol/L	135.0 - 150.0	
	POTASSIUM: SERUN	Л	4.56	mmol/L	3.50 - 5.00	
	CHLORIDE: SERUM by ISE (ION SELECTIVE		99.38	mmol/L	90.0 - 110.0	
		ERULAR FILTERATION RATE	<u>e</u>			
	ESTIMATED GLOMI (eGFR): SERUM by CALCULATED	ERULAR FILTERATION RATE	46.7			
	NOTE 2		RESULT R	ECHECKED TWICE		

# ADVICE

### **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



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KINDLY CORRELATE CLINICALLY

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IAME	: Mr. N.N SH	ARMA			
AGE/ GENDER	: 83 YRS/MAI	.E	<b>PATIENT ID</b>	: 1678344	
COLLECTED BY			<b>REG. NO./LAB NO</b>	). : 012411	910046
	·				
REFERRED BY	:		<b>REGISTRATION I</b>	DATE : 21/Nov/	2024 03:51 PM
SARCODE NO.	:01521217		COLLECTION DAT	<b>FE</b> : 21/Nov/	2024 03:57PM
LIENT CODE.	: KOS DIAGNO	OSTIC LAB	<b>REPORTING DAT</b>	<b>'E</b> : 21/Nov/	2024 07:26PM
LIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	LA CANTT		
Fest Name			Value Ui	nit I	Biological Reference interval
9. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b>	ass (subnormal tetracycline, gl 20:1) WITH ELEV	creatinine production) ucocorticoids) ATED CREATININE LEVEL			
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;</b> 4. Postrenal azotemia 5. Prerenal azotemia 6. Acute tubular neci 7. Low protein diet a 8. Severe liver diseas 9. Other causes of de 6. Repeated dialysis 9. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. 9. Pregnancy. 9. Phenacimide thera 8. Rhabdomyolysis (r 8. Muscular patients 1. Diabetic ketoacido 1. Diabetic ketoacido 1. Cephalosporin the 1. STIMATED GLOMER	ass (subnormal tetracycline, glu 20:1) WITH ELEV. a (BUN rises disp superimposed of 10:1) WITH DECF osis. and starvation. e. creased urea sy (urea rather tha monemias (ure of inappropiate 10:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr rapy (interferes	creatinine production) Jacocorticoids) ATED CREATININE LEVEL proportionately more the on renal disease. REASED BUN : In creatinine diffuses ou a is virtually absent in b antidiuretic harmone) d EASED CREATININE: conversion of creatine creatinine). Inal failure. Ite causes false increase reatinine ratio). with creatinine measure IN RATE:	an creatinine) (e.g. obstructiv ut of extracellular fluid). blood). lue to tubular secretion of ure to creatinine). in creatinine with certain me ement).	a. thodologies,resulting	g in normal ratio when dehydrat
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. Urine reabsorption Reduced muscle m Certain drugs (e.g. VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIC Diabetic ketoacido nould produce an ir Cephalosporin the STIMATED GLOMER	ass (subnormal tetracycline, glu 20:1) WITH ELEV. a (BUN rises disp superimposed of 10:1) WITH DECF osis. ad starvation. e. creased urea sy (urea rather tha monemias (ure of inappropiate for inappropiate and starvation. e. for a sy (urea rather tha monemias (ure of inappropiate sis (acelerates eleases muscle who develop re sis (acetoacetai creased BUN/cr rapy (interferes JLAR FILTERATIO	creatinine production) Jacocorticoids) ATED CREATININE LEVEL proportionately more the on renal disease. EASED BUN : In creatinine diffuses ou a is virtually absent in b antidiuretic harmone) d EASED CREATININE: conversion of creatine creatinine). Inal failure. Ite causes false increase reatinine ratio). with creatinine measure IN RATE: DESCRIPTION rmal kidney function	an creatinine) (e.g. obstructiv ut of extracellular fluid). blood). lue to tubular secretion of ure to creatinine). in creatinine with certain me ement).	a. thodologies,resulting	DINGS ria
Urine reabsorption Reduced muscle m Certain drugs (e.g. ICREASED RATIO (>2 Postrenal azotemia ECREASED RATIO (>2 Acute tubular nect Low protein diet a Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients IAPPROPIATE RATIO Diabetic ketoacido nould produce an ir CEPhalosporin the STIMATED GLOMERI CKD STAGE	ass (subnormal tetracycline, glu 20:1) WITH ELEV. a (BUN rises disp superimposed of 10:1) WITH DECF osis. ad starvation. e. creased urea sy (urea rather tha monemias (ure of inappropiate 10:1) WITH INCR upy (accelerates eleases muscle who develop re sis (acetoacetai creased BUN/cr rapy (interferes JLAR FILTERATIO	creatinine production) Jacocorticoids) ATED CREATININE LEVEL proportionately more the on renal disease. REASED BUN : In creatinine diffuses ou a is virtually absent in be antidiuretic harmone) de EASED CREATININE: conversion of creatine creatinine). Inal failure. Ite causes false increase reatinine ratio). with creatinine measure DESCRIPTION	an creatinine) (e.g. obstructiv ut of extracellular fluid). blood). lue to tubular secretion of ure to creatinine). in creatinine with certain me ement). GFR (mL/min/1.73m2) >90	a. thodologies,resulting ASSOCIATED FIN No proteinu	DINGS ria otein ,
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Test Name		/alue 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

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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%

**IRON DEFICIENCY ANEMIA** 

Reduced

Increased

Decreased < 12-15 %

Decreased

mg/dL

15.0 - 50.0

200.0 - 350.0

THALASSEMIA α/β TRAIT

Normal

Normal

Normal

Normal or Increased

	<b>Dr. Vinay Cho</b> j MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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COLLECTED BY	:	REG.	NO./LAB NO.	: 012411210046
<b>REFERRED BY</b>	:	REGI	STRATION DATE	: 21/Nov/2024 03:51 PM
BARCODE NO.	:01521217	COLL	ECTION DATE	: 21/Nov/2024 03:57PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 21/Nov/2024 06:45PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IRON PRO	FILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	23.51 <sup>L</sup>	μg/dL	59.0 - 158.0
UNSATURATED IR SERUM by FERROZINE, SPEC	ON BINDING CAPACITY (UIBC)	430.82 <sup>H</sup>	μg/dL	150.0 - 336.0
TOTAL IRON BIND	ING CAPACITY (TIBC)	454.33 <sup>H</sup>	µg/dL	230 - 430

5.17<sup>L</sup>

322.57

:SERUM

by SPECTROPHOTOMETERY

TRANSFERRIN: SERUM

**INTERPRETATION:-**

%TRANSFERRIN SATURATION: SERUM

by SPECTROPHOTOMETERY (FERENE)

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

by CALCULATED, SPECTROPHOTOMETERY (FERENE)

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):

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

ANEMIA OF CHRONIC DISEASE

Normal to Reduced

Decreased

Decreased

Normal to Increased

#### % 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.





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

KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com

DR.YUGAM CHOPRA

CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY) KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana



TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay C MD (Pathology Chairman & Co			m Chopra D (Pathology) ht Pathologist	
NAME	: Mr. N.N SHARMA				
AGE/ GENDER	: 83 YRS/MALE	РАТ	IENT ID	: 1678344	
COLLECTED BY	:	REG	. NO./LAB NO.	: 012411210046	
REFERRED BY	:	REG	ISTRATION DATE	: 21/Nov/2024 03:51 PM	
BARCODE NO.	:01521217	COL	LECTION DATE	: 21/Nov/2024 03:57PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 21/Nov/2024 05:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Referen	ıce interval
		ENDOCRIN	OLOGY		
	T	HYROID FUNCTIO	N TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNO.	0.77 ASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immuno.	6.79 ASSAY)	µgm/dI	4.87 - 12.60	
	ATING HORMONE (TSH): SER		µIU/mI	0.35 - 5.50	
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrations.	TSH stimulates the producti	on and secretion of the i	pm. The variation is of the order of 50%. netabolically active hormones, thyroxir ner underproduction (hypothyroidism) of	ne (T4)and
CLINICAL CONDITION	T3		[4	TSH	
Primary Hypothyroidis	m: Reduced	Re	duced	Increased (Significantly)	

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	(INE (T4)	THYROID STIMULATING 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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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

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



Page 17 of 22





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbi Chairman & Consultant P		(Pathology)	
NAME	: Mr. N.N SHARMA			
AGE/ GENDER	: 83 YRS/MALE	PATIENT ID	: 1678344	
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012411210046	
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 21/Nov/2024 03:51 PM	
BARCODE NO.	: 01521217	<b>COLLECTION DATE</b>	: 21/Nov/2024 03:57PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 21/Nov/2024 05:42PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	A CANTT		

Test Name			Value	Unit		Biological Reference interval	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50		
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50		
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50		
	RECON	/IMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY ( µIU/mL)			
1st Trimester			0.10 - 2.50				
2nd Trimester		0.20 - 3.00					
	3rd Trimester			0.30 - 4.10			

#### **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, iodine 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 goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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)

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 care@koshealthcare.com www.koshealthcare.com





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	MD (P	<b>'inay Chop</b> athology & M nan & Consul <sup>:</sup>		st CE	Dr. Yugam MD O & Consultant	(Pathology)	
NAME	: Mr. N.N SHARMA						
AGE/ GENDER	: 83 YRS/MALE			PATIENT I	D	: 1678344	
COLLECTED BY	:			REG. NO./I	AB NO.	: 012411	210046
<b>REFERRED BY</b>	:			REGISTRA	TION DATE	:21/Nov/2	2024 03:51 PM
BARCODE NO.	:01521217			COLLECTI		:21/Nov/2	2024 03:57PM
CLIENT CODE.	: KOS DIAGNOSTIC I	LAB		REPORTIN		: 21/Nov/2	2024 07:26PM
CLIENT ADDRESS	: 6349/1, NICHOLSO	ON ROAD, AM	IBALA CANTT	ſ			
Test Name			Value		Unit	B	iological Reference interval
	DROXY VITAMIN D3 ESCENCE IMMUNOASSAY	): SERUM	43.914	IDROAT	V <b>ITAMIN D</b> : ng∕mL	E II S	DEFICIENCY: < 20.0 NSUFFICIENCY: 20.0 - 30.0 UFFICIENCY: 30.0 - 100.0 'OXICITY: > 100.0
	CIENT:		< 20		ng	g/mL	
	FICIENT:		21 - 29			g/mL	
	ED RANGE: CATION:		30 - 100 > 100			g/mL g/mL	
conversion of 7- dihy 2.25-OHVitamin D r tissue and tightly bou 3.Vitamin D plays a p phosphate reabsorpt 4.Severe deficiency n <b>DECREASED:</b> 1.Lack of sunshine ex 2.Inadeguate intake, 3.Depressed Hepatic 4.Secondary to advar 5.Osteoporosis and S 6.Enzyme Inducing dr <b>INCREASED:</b> 1. Hypervitaminosis I severe hypercalcemia <b>CAUTION:</b> Replaceme hypervitaminosis D	drocholecalciferol to N epresents the main bo und by a transport pro rimary role in the mai ion, skeletal calcium d hay lead to failure to n posure. malabsorption (celiac Vitamin D 25- hvdroxy necondary Hyperparath rugs: anti-epileptic dru D is Rare, and is seen o a and hyperphophatem and hyperphophatem int therapy in deficient	/itamin D3 in dy resevoir a tein while in ntenance of o eposition, ca nineralize new disease) dase activity roidism (Mild gs like pheny nly after prol nia. individuals n	the skin upor nd transport f circulation. calcium home lcium mobiliza wly formed os d to Moderate toin, phenoba longed exposu	n Ultraviolet form of Vitan eostatis. It pr ation, mainly teoid in bon e deficiency) arbital and ca ure to extrem	exposure. nin D and trans protes calciun regulated by r e, resulting in r rbamazepine, ely high doses pdic assessmen	port form of M n absorption, barathyroid ha ickets in child that increases of Vitamin D. it of Vitamin D	rom animals, Vitamin D3), or by /itamin D, being stored in adipose renal calcium absorption and armone (PTH). Iren and osteomalacia in adults. s Vitamin D metabolism. When it occurs, it can result in D levels in order to prevent xcess of melanin pigment which

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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GE/ GENDER       83 YRS/MALE       PATIENT ID       : 1678344         DILECTED BY       :       REG. NO./LAB NO.       : 012411210046         EFFERED BY       :       REGISTRATION DATE       : 21/Nov/2024 03:51 PM         ARCODE NO.       : 01521217       COLLECTION DATE       : 21/Nov/2024 03:57 PM         LIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 21/Nov/2024 03:57 PM         LIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       : 21/Nov/2024 05:42 PM         VITAMIN B12/COBALAMIN:         VITAMIN B12/COBALAMIN:         ESTAME         VITAMIN B12/COBALAMIN: SERUM         LOP         OCREASED VITAMIN B12         INCRASED VITAMIN B12         INCRASED VITAMIN B12         INCRASED VITAMIN B12         LIPERPRETATION:-         STANDAGE VITAMIN B12         INCRASED VITAMIN B12			hopra & Microbiology) onsultant Pathologist			
DELECTED BY       I. REG. NO./LAB NO.       : 012411210046         EFERRED BY       I. REGISTRATION DATE       : 21/Nov/2024 03:51 PM         ARCODE NO.       : 01521217       COLLECTION DATE       : 21/Nov/2024 03:57PM         LIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 21/Nov/2024 05:42PM         LIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         est Name       Value       Unit       Biological Reference interva         INTAMIN B12/COBALAMIN: SERUM       259       pg/mL       190.0 - 890.0         by CMA (CHEMILUMMESCENT MICROPARTICLE IMMUNOASSAY)       Increased VITAMIN B12       1         Ingestion of Vitamin C       1. Pregnancy       1         1.Ingestion of Vitamin A       3. Ethanol Igestion       4         4.Hepatocallular injury       4. Contraceptive Harmones       6         5.Myeloproliferative disorder       5. Haemodialysis       6         6.Uremia       6. Multiple Myeloma       10       10 the liver; very little is creted.         Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.       11       11       11         11 hebody uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the lieum and returning it to the liver; very little is creted.       9.         Vitamin B12 deficiency may be du	IAME	: Mr. N.N SHARMA				
EFERRED BY :: REGISTRATION DATE :: 21/Nov/2024 03:51 PM ARCODE NO. :: 01521217 COLLECTION DATE :: 21/Nov/2024 03:57 PM LIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: 21/Nov/2024 05:42 PM LIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT est Name Value Unit Biological Reference interva VITAMIN B12/COBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMMA (CHEMIL UMMESCENT MICROPARTICLE IMMUNOASSAY) ITERPETATION:: INCREASED VITAMIN B12 (DBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMMA (CHEMIL UMMESCENT MICROPARTICLE IMMUNOASSAY) ITERPETATION::	AGE/ GENDER	: 83 YRS/MALE	PATI	ENT ID	: 1678344	
EFERRED BY :: REGISTRATION DATE :: 21/Nov/2024 03:51 PM ARCODE NO. :: 01521217 COLLECTION DATE :: 21/Nov/2024 03:57 PM LIENT CODE :: KOS DIAGNOSTIC LAB REPORTING DATE :: 21/Nov/2024 05:42 PM LIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT est Name Value Unit Biological Reference interva VITAMIN B12/COBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMMA (CHEMIL UMMESCENT MICROPARTICLE IMMUNOASSAY) ITERPETATION:: INCREASED VITAMIN B12 (DBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMMA (CHEMIL UMMESCENT MICROPARTICLE IMMUNOASSAY) ITERPETATION::	OLLECTED BY	:	REG. 1	NO./LAB NO.	: 012411210046	
ARCODE NO. : 01521217 COLLECTION DATE : 21/Nov/2024 03:57PM LIENT CODE : KOS DIAGNOSTIC LAB REPORTING DATE : 21/Nov/2024 05:42PM LIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT est Name Value Unit Biological Reference interva VTAMIN B12/COBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) TREPRETATION: NICREASED VITAMIN B12 DIAGNARTICLE IMMUNOASSAY) INCREASED VITAMIN B12 DIAGNARTICLE IMMUNOASSAY)						
LIENT CODE. :: SOS DIAGNOSTIC LAB REPORTING DATE :: 21/Nov/2024 05:42PM LIENT ADDRESS :: 6349/1, NICHOLSON ROAD, AMBALA CANTT 'est Name Value Unit Biological Reference interva VITAMIN B12/COBALAMIN: SERUM 259 pg/mL 190.0 - 890.0 by CMA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY) <u>ITERPERTATION:</u> 1.Ingestion of Vitamin C 1.Pregnancy 2.Ingestion of Vitamin C 2.DRUGS: Aspirin, Anti-convulsants, Colchicine 3.Ingestion of Vitamin A 3.Ethanol Igestion 4.Hepatocellular injury 4. Contraceptive Harmones 5.Haemodialysis 6.Uremia 6. Multiple Myeloma Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function. In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption. The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is correted. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ear requires intrinsic factor (IF) for absorption. The body uses its vitamin B12 stores wery economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is correted. Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ear resciton, small intestinal diseases). Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of oprotoception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have the neurologic defects without macrocytic anemia. Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states. Follow-up testing for antibiodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption.		. 01591917				
LIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         est Name       Value       Unit       Biological Reference interva         VITAMIN B12/COBALAMIN: SERUM       259       pg/mL       190.0 - 890.0         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)       DECREASED VITAMIN B12       190.0 - 890.0         ITTAMIN B12/COBALAMIN: SERUM       259       pg/mL       190.0 - 890.0         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)       DECREASED VITAMIN B12       1         Ingestion of Vitamin C       1.Pregnancy       2       2       DECREASED VITAMIN B12         1.Ingestion of Vitamin A       3.Ethanol Igestion       4       4       Contraceptive Harmones       5         6.Myeloproliferative disorder       5.Haemodialysis       6       6       5       1         6.Uremia       6       Multiple Myeloma       1       1       1       1         10 humans, It is obtained only from animal protopiesis and normal neuronal function.       1       1       1       1       1         11 humans, It is obtained only from animal protopiesis and normal neuronal function.       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1						
Value         Unit         Biological Reference interva           UTRAMIN B12/COBALAMIN:           TAMIN B12/COBALAMIN: SERUM         259         pg/mL         190.0 - 890.0           by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)           TITAMIN B12/COBALAMIN: SERUM           DECREASED VITAMIN B12           100.0 - 890.0           WICREASED VITAMIN B12           1.Ingestion of Vitamin C           1.Pregnancy           2.Ingestion of Vitamin A           3.Ethanol Igestion           4. Contraceptive Harmones           6.Myeloproliferative disorder           6. Multiple Myeloma           Vitamin B12 (cobalamin) is necessary for hematopolesis and normal neuronal function.           In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.           The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver: very little is screeted.           Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).           Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, h				KIING DATE	. 21/NOV/2024 05.42PM	
VITAMIN B12/COBALAMIN         ITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C         1.Pregnancy         2.DRUGS: Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A         3.Ethanol Igestion         4. Contraceptive Harmones         5.Myeloproliferative disorder         6. Multiple Myeloma         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is creted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intesti	LIENI ADDRESS	: 0349/1, NICHOLSON KOAL	), AMBALA CANTT			
VITAMIN B12/COBALAMIN         ITAMIN B12/COBALAMIN: SERUM         by CMIA (CHEMILUMINESCENT MICROPARTICLE IMMUNOASSAY)         INCREASED VITAMIN B12         INCREASED VITAMIN B12         1.Ingestion of Vitamin C         1.Pregnancy         2.DRUGS: Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A         3.Ethanol Igestion         4. Contraceptive Harmones         5.Myeloproliferative disorder         6. Multiple Myeloma         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is creted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intesti	Test Name		Value	Unit	Biological Reference interval	
1.Ingestion of Vitamin C       1.Pregnancy         2.Ingestion of Estrogen       2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.         In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is creted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (eal resection, small intestinal diseases).         Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of oprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have neurologic defects without macrocytic anemia.         Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.         Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption.	<u>NTERPRETATION:-</u> INCREAS	SED VITAMIN B12		DECREASED VITAMIN	V B12	
2.Ingestion of Estrogen       2.DRUGS:Aspirin, Anti-convulsants, Colchicine         3.Ingestion of Vitamin A       3.Ethanol Igestion         4.Hepatocellular injury       4. Contraceptive Harmones         5.Myeloproliferative disorder       5.Haemodialysis         6.Uremia       6. Multiple Myeloma         Vitamin B12 (cobalamin) is necessary for hematopoiesis and normal neuronal function.       In humans, it is obtained only from animal proteins and requires intrinsic factor (IF) for absorption.         The body uses its vitamin B12 stores very economically, reabsorbing vitamin B12 from the ileum and returning it to the liver; very little is ccreted.         Vitamin B12 deficiency may be due to lack of IF secretion by gastric mucosa (eg, gastrectomy, gastric atrophy) or intestinal malabsorption (ear resection, small intestinal diseases).         Vitamin B12 deficiency frequently causes macrocytic anemia, glossitis, peripheral neuropathy, weakness, hyperreflexia, ataxia, loss of roprioception, poor coordination, and affective behavioral changes. These manifestations may occur in any combination; many patients have neurologic defects without macrocytic anemia.         Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.         Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption.				DEGREASED VITAIVIII		
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eficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should	<b>IOTE:</b> A normal serur	m concentration of vitamin B12	does not rule out tissue o	leficiency 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 Ch MD (Pathology & Chairman & Con		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. N.N SHARMA			
AGE/ GENDER	: 83 YRS/MALE	РАТ	IENT ID	: 1678344
COLLECTED BY	:	REG	. NO./LAB NO.	: 012411210046
<b>REFERRED BY</b>	:	REG	ISTRATION DATE	: 21/Nov/2024 03:51 PM
BARCODE NO.	: 01521217		LECTION DATE	: 21/Nov/2024 03:57PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 21/Nov/2024 05:22PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		CLINICAL PAT	FHOLOGY	
	URINE RO	UTINE & MICROS	SCOPIC EXAMINA	ATION
PHYSICAL EXAMIN	ATION			
QUANTITY RECIEV	ED TANCE SPECTROPHOTOMETRY	10	ml	
COLOUR	TANCE SPECTROPHOTOMETRY	AMBER YELLO	W	PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMI				
REACTION	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
рН	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	TANCE SPECTROPHOTOMETRY.	Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECT	TANCE SPECTROPHOTOMETRY	NEGATIVE (-v	e)	NEGATIVE (-ve)
MICROSCOPIC EXA RED BLOOD CELLS		NEGATIVE (-v	e) /HPF	0 - 3



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NANGE



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

N NI CITA DAGA

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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<b></b>				Biological Reference interva

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	0-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\*\* End Of Report \*\*\*





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