

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta		obiology)		(Pathology)
IAME : Mr.	SATISH VERMA			
<b>GE/ GENDER</b> : 65 Y	RS/MALE		PATIENT ID	: 1686505
OLLECTED BY :			REG. NO./LAB NO.	: 012411300010
EFERRED BY :			<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:45 AM
	21716		COLLECTION DATE REPORTING DATE	: 30/Nov/2024 09:06AM : 30/Nov/2024 09:31AM
	DIAGNOSTIC LAB 9/1, NICHOLSON ROAD, AMBA		KEPUKTING DATE	: 30/ NOV/ 2024 09:31AM
Fest Name		Value	Unit	Biological Reference interval
			LLNESS PANEL: 1.5 DOD COUNT (CBC)	5
ED BLOOD CELLS (RBC	S) COUNT AND INDICES			
IAEMOGLOBIN (HB)		14.9	gm/dL	12.0 - 17.0
by CALORIMETRIC ED BLOOD CELL (RBC) C by HYDRO DYNAMIC FOCUSIN		5.32 <sup>H</sup>	Millions/	/cmm 3.50 - 5.00
ACKED CELL VOLUME (P	CV) TED HEMATOLOGY ANALYZER	48	%	40.0 - 54.0
IEAN CORPUSCULAR VOI		90.2	fL	80.0 - 100.0
IEAN CORPUSCULAR HA		28	pg	27.0 - 34.0
IEAN CORPUSCULAR HE	MOGLOBIN CONC. (MCHC)	31 <sup>L</sup>	g/dL	32.0 - 36.0
ED CELL DISTRIBUTION		14.5	%	11.00 - 16.00
ED CELL DISTRIBUTION		48.9	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		16.95	RATIO	BETA THALASSEMIA TRAIT: 13.0 IRON DEFICIENCY ANEMIA: >13.0
REEN & KING INDEX	TB (CS)	24.58	RATIO	BETA THALASSEMIA TRAIT:- 65.0 IRON DEFICIENCY ANEMIA: : 65.0
<b>VHITE BLOOD CELLS (W</b> OTAL LEUCOCYTE COUN		6830	/cmm	4000 - 11000
by FLOW CYTOMETRY BY SF	CUBE & MICROSCOPY		/ ciniff	
	. ,	NIL		0.00 - 20.00
IUCLEATED RED BLOOD by automated 6 part hema	TOLOGY ANAI YZER			





**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







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

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

Dr. Vinay Chopra

Test Name	Value	Unit	<b>Biological Reference interval</b>
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	62	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS by flow cytometry by SF cube & microscopy ABSOLUTE LEUKOCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	4235	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1912	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	273	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	410	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIV	<u>E MARKERS.</u>		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	305000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.33	%	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	101000 <sup>H</sup>	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE	33.2	%	11.0 - 45.0
PLATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.2	%	15.0 - 17.0





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Test Name	Value	Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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NAME	: Mr. SATISH VERMA				
AGE/ GENDER	: 65 YRS/MALE	PATIE	ENT ID	: 1686505	
COLLECTED BY	:	REG. N	NO./LAB NO.	:012411300010	
REFERRED BY	:	<b>REGISTRATION DATE</b>		: 30/Nov/2024 08:45 AM	
BARCODE NO.	:01521716	COLL	COLLECTION DATE		АМ
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 30/Nov/2024 03:33	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			. 50/ NOV/ 2024 05.551 W	
Test Name		Value	Unit	Biological R	Reference interval
WHOLE BLOOD by HPLC (HIGH PERFO	EMOGLOBIN (HbA1c):	DSYLATED HAEMO 5.6	%	4.0 - 6.4	
	GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	114.02	mg/dL	60.00 - 140.	00
	AS PER AMERICAN	DIABETES ASSOCIATION (	(ADA):		
	REFERENCE GROUP		LATED HEMOGLOGIB	(HBAIC) in %	
	abetic Adults >= 18 years		<5.7		
	t Risk (Prediabetes)		5.7 – 6.4		
D	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
Thorsers	io goolo for glucomia control	Goals of The		< 7.0	
inerapeut	ic goals for glycemic control	Actions Sugge		>8.0	
		0	Age < 19 Years	7.5	
		Goal of ther	apy:	<7.5	

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## 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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LIENT CODE.	: KOS DIAGNOSTIC	LAB	REPORTING DATE	: 30/Nov/2024 09:49AM
LIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	<b>Biological Reference interval</b>
by RED CELL AGGRE	GATION BY CAPILLARY I			





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



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		y & Microbiology) onsultant Pathologist	) MD CEO & Consultant I	Pathology) Pathologist
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLIN	ICAL CHEMISTRY	/BIOCHEMISTI	RY
		GLUCOSE FAS	ГING (F)	

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA			
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TO	ΓΔΙ · SFRUM	208.07 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O		208.07**	nig/ dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM phate oxidase (enzymatic)	146.72	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM ION	43.54	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROI by CALCULATED, SPE		135.19 <sup>H</sup>	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 CHOLES' by calculated, spe		164.53 <sup>H</sup>	mg/dL	VERY HIGH: > 0R = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > 0R = 220.0
VLDL CHOLESTER		29.34	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF	RUM	562.86	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	4.78 <sup>H</sup>	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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTI	Г				
Test Name		Value	Unit	Biological Reference interval			
LDL/HDL RATIO: S by CALCULATED, SPE		3.1 <sup>H</sup>	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	3.37	RATIO	3.00 - 5.00			

## INTERPRETATION:

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

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

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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MBBS, MD (PATHOLOGY)

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**Biological Reference interval** 

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Test Name		Value	Unit	Biological Refe
	LIVER	<b>FUNCTION</b>	FEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SE	: SERUM PECTROPHOTOMETRY	0.63	mg/dL	INFANT: 0.20 - ADULT: 0.00 - 1
	C (CONJUGATED): SERUM	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.48	mg/dL	0.10 - 1.00

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

LIVER	FUNCTION TES	T (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	0.63	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.15	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	23.7	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	21.8	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.09	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	78.13	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	31.09	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.58	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.54	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.04 <sup>L</sup>	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	2.23 <sup>H</sup>	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:**

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 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).

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



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Test Name		Value	Unit	<b>Biological Reference inte</b>	rval
	KIDNE	Y FUNCTIO	ON TEST (COMPLETE)		
UREA: SERUM		23.07	mg/dL	10.00 - 50.00	
by UREASE - GLUTAN	ATE DEHYDROGENASE (GLDH)		J		
CREATININE: SER		1.2	mg/dL	0.40 - 1.40	
BLOOD UREA NITE	ROGEN (BUN): SERUM	10.78	mg/dL	7.0 - 25.0	
by CALCULATED, SPE	ectrophotometry ROGEN (BUN)/CREATININE	o ool	RATIO	10.0 - 20.0	
RATIO: SERUM	(DOR)/ CREATININE	8.98 <sup>L</sup>	KATIO	10.0 - 20.0	
by CALCULATED, SPE		10.00	DATE		
UREA/CREATININ by CALCULATED, SPE	E RATIO: SERUM ECTROPHOTOMETRY	19.23	RATIO		
URIC ACID: SERUM	1	5.22	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	10.28	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE	ECTROPHOTOMETRY	10.20	ing/ uL	0.00 10.00	
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	3.04	mg/dL	2.30 - 4.70	
ELECTROLYTES	DATE, SPECIKOPHOTOMETKT				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	136.1	mmol/L	135.0 - 150.0	
POTASSIUM: SERU by ISE (ION SELECTIV	M	4.08	mmol/L	3.50 - 5.00	
CHLORIDE: SERUN by ISE (ION SELECTIV	1	102.07	mmol/L	90.0 - 110.0	
ESTIMATED GLON	IERULAR FILTERATION RATE				
ESTIMATED GLOM (eGFR): SERUM by calculated INTERPRETATION:	IERULAR FILTERATION RATE	67.1			

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.

3. GI haemorrhage.



**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





		Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		<b>Yugam Cho</b> MD (Patho nsultant Patho	logy)		
IAME	: Mr. SATISH	VERMA						
AGE/ GENDER	: 65 YRS/MAL	E		PATIENT ID	: 16	86505		
COLLECTED BY	:			REG. NO./LAB NO.	. : <b>0</b> 1	241130001	10	
REFERRED BY				REGISTRATION D	<b>ATE</b> · 30	/Nov/2024 0	8·45 AM	
BARCODE NO.	:01521716			COLLECTION DAT		/Nov/2024 0		
CLIENT CODE.	: KOS DIAGNO	STIC LAB		REPORTING DATI		/Nov/2024 1		
CLIENT ADDRESS		HOLSON ROAD, AME				1107/20241	0.0771101	
Test Name			Value	Un	it	Biologi	ical Refere	ence interv
<ol> <li>Certain drugs (e.g. NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>PCREASED RATIO (&lt;</li> <li>Acute tubular necr</li> </ol>	tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed c 0:1) WITH DECR psis.	TED CREATININE LEV roportionately more on renal disease.	ELS:	ne) (e.g. obstructive	e uropathy).			
Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     Cephalosporin ther     STIMATED GLOMERL     CKD STAGE     G1	tetracycline, glu <b>0:1) WITH ELEV/</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. Id starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <b>ILAR FILTERATIO</b> Nor	accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : A thesis. In creatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function	ELS: than creatinin but of extrace blood). due to tubula e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2 ) >90	n. hodologies,re ASSOCIAT	ED FINDINGS oteinuria	rmal ratio w	/hen dehydr
Certain drugs (e.g. NCREASED RATIO (>2 Postrenal azotemia Perenal azotemia DECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver diseas Other causes of de Repeated dialysis Inherited hyperam SIADH (syndrome of Pregnancy. DECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido hould produce an in Cephalosporin ther STIMATED GLOMERI CKD STAGE	tetracycline, glu <b>0:1) WITH ELEV/</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. Id starvation. creased urea sy urea rather tha monemias (urea f inappropiate a <b>0:1) WITH INCR</b> py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <b>ILAR FILTERATIO</b> Nor	accoorticoids) ATED CREATININE LEV roportionately more on renal disease. EASED BUN : Athesis. In creatinine diffuses is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increa eatinine ratio). with creatinine measu N RATE: DESCRIPTION mal kidney function dney damage with	ELS: than creatinin but of extrace blood). due to tubula e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met	n. hodologies,re <u>ASSOCIAT</u> No pr Presence	ED FINDINGS oteinuria of Protein ,		/hen dehydr
Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet ar     Severe liver diseas     Other causes of de     Repeated dialysis     Inherited hyperam     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     Cephalosporin ther     STIMATED GLOMERLI     G1     G2	tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2. creased urea sy urea rather tha monemias (urea f inappropiate a 0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes ILAR FILTERATIO Nor Ki Nor	accoorticoids) ATED CREATININE LEV roportionately more in renal disease. EASED BUN : Acceatinine diffuses is virtually absent in intidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increated e causes false increated increatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2 ) >90 >90	n. hodologies,re <u>ASSOCIAT</u> No pr Presence	ED FINDINGS oteinuria		/hen dehydr
Certain drugs (e.g.     NCREASED RATIO (>2     Postrenal azotemia     Prerenal azotemia     DECREASED RATIO (<         Acute tubular necr     Low protein diet an     Severe liver diseas     Other causes of de     Repeated dialysis (     SIADH (syndrome of     SIADH (syndrome of     Pregnancy.     DECREASED RATIO (<         Phenacimide thera     Rhabdomyolysis (r     Muscular patients     NAPPROPIATE RATIO     Diabetic ketoacido     hould produce an in     Cephalosporin ther     STIMATED GLOMERL     G1     G2	tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2. creased urea sy urea rather tha monemias (urea f inappropiate a 0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Nor Ki Nor Nor Ki Nor Nor Ki Nor Nor Nor Nor Nor Nor Nor Nor	accoorticoids) ATED CREATININE LEV roportionately more in renal disease. EASED BUN : Acceatinine diffuses a is virtually absent in antidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increated e causes false increated increatinine ratio). with creatinine meased N RATE: DESCRIPTION mal kidney function dney damage with ormal or high GFR Id decrease in GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2 ) >90 >90 60 -89	n. hodologies,re <u>ASSOCIAT</u> No pr Presence	ED FINDINGS oteinuria of Protein ,		/hen dehydr
<ul> <li>P. Certain drugs (e.g.</li> <li>NCREASED RATIO (&gt;2</li> <li>Postrenal azotemia</li> <li>Prerenal azotemia</li> <li>DECREASED RATIO (&lt;'</li> <li>Acute tubular necr</li> <li>Low protein diet and</li> <li>Severe liver diseas</li> <li>Other causes of de</li> <li>Repeated dialysis (</li> <li>SIADH (syndrome of</li> <li>Pregnancy.</li> <li>DECREASED RATIO (&lt;'</li> <li>Rhabdomyolysis (r</li> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin ther</li> <li>STIMATED GLOMERI</li> <li>G1</li> <li>G2</li> </ul>	tetracycline, glu 0:1) WITH ELEV/ (BUN rises disp superimposed of 0:1) WITH DECR osis. Id starvation. 2: creased urea sy urea rather tha monemias (urea f inappropiate a 0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes LAR FILTERATIO Nor Ki Nor Mod	accoorticoids) ATED CREATININE LEV roportionately more in renal disease. EASED BUN : Acceatinine diffuses is virtually absent in intidiuretic harmone EASED CREATININE: conversion of creatin creatinine). nal failure. e causes false increated e causes false increated increatinine ratio). with creatinine measure N RATE: DESCRIPTION mal kidney function dney damage with pormal or high GFR	ELS: than creatinin but of extrace blood). due to tubula e to creatinin se in creatinin urement).	ellular fluid). ar secretion of urea e). ne with certain met L/min/1.73m2 ) >90 >90	n. hodologies,re <u>ASSOCIAT</u> No pr Presence	ED FINDINGS oteinuria of Protein ,		/hen dehydr





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









AGE/ GENDER	<b>: Mr. SATISH VERMA</b> : 65 YRS/MALE	PATIENT ID	: 1686505
COLLECTED BY	:	REG. NO./LAB NO.	: <b>012411300010</b>
REFERRED BY		REGISTRATION DATE	: 30/Nov/2024 08:45 AM
BARCODE NO.	: 01521716	COLLECTION DATE	: 30/Nov/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Nov/2024 10:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	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





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







%

**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

	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam MD ( CEO & Consultant	(Pathology)
NAME	: Mr. SATISH VERMA			
AGE/ GENDER	: 65 YRS/MALE	PAT	IENT ID	: 1686505
COLLECTED BY	:	REG.	NO./LAB NO.	: 012411300010
<b>REFERRED BY</b>	:	REG	STRATION DATE	: 30/Nov/2024 08:45 AM
BARCODE NO.	:01521716	COLI	LECTION DATE	: 30/Nov/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 30/Nov/2024 10:57AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
		IRON PRO	FILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY	56.34 <sup>L</sup>	μg/dL	59.0 - 158.0
UNSATURATED IR SERUM	ON BINDING CAPACITY (UIBC)	233.82	μg/dL	150.0 - 336.0
by FERROZINE, SPEC				
TOTAL IRON BIND	ING CAPACITY (TIBC)	290.16	µg/dL	230 - 430

19.42

206.01

**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.

2. 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):

VARIABLES

SERUM IRON:

TOTAL IRON BINDING CAPACITY:

% TRANSFERRIN SATURATION:

**SERUM FERRITIN:** 

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:

**INTERPRETATION:-**

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)

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	MD (Pathology & I Chairman & Const		MD CEO & Consultant	(Pathology) Pathologist	
NAME	: Mr. SATISH VERMA				
AGE/ GENDER	: 65 YRS/MALE	PATI	ENT ID	: 1686505	
COLLECTED BY	:	REG. I	NO./LAB NO.	:012411300010	
<b>REFERRED BY</b>	:	REGIS	TRATION DATE	: 30/Nov/2024 08:45 AM	
BARCODE NO.	:01521716	COLLI	ECTION DATE	: 30/Nov/2024 09:06AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 30/Nov/2024 12:27PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT			
Test Name		Value	Unit	<b>Biological Reference inte</b>	rva
			LOCA		
		ENDOCRINO	LUGI		
	ТНУ	ENDOCRINO ROID FUNCTION			
		<b>ROID FUNCTION</b> 1.157		0.35 - 1.93	
THYROXINE (T4):	NE (T3): SERUM nescent microparticle immunoass SERUM	( <b>ROID FUNCTION</b> 1.157 5AY) 8.28	TEST: TOTAL	0.35 - 1.93 4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS	( <b>ROID FUNCTION</b> 1.157 5AY) 8.28 SAY) M 2.149	<b>TEST: TOTAL</b> ng/mL		
by CMIA (CHEMILUMIN THYROXINE (T4): 5 by CMIA (CHEMILUMIN THYROID STIMULA	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOASS SERUM NESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUN NESCENT MICROPARTICLE IMMUNOASS	( <b>ROID FUNCTION</b> 1.157 5AY) 8.28 SAY) M 2.149	<b>TEST: TOTAL</b> ng/mL μgm/dL	4.87 - 12.60	
by CMIA (CHEMILUMIN THYROXINE (T4): 3 by CMIA (CHEMILUMIN THYROID STIMULA by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the triiodothyronine (T3).Fai	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNOASS SERUM VESCENT MICROPARTICLE IMMUNOASS ATING HORMONE (TSH): SERUN VESCENT MICROPARTICLE IMMUNOASS TRASENSITIVE circadian variation, reaching peak levels b	(ROID FUNCTION 1.157 SAY) 8.28 SAY) M 2.149 SAY) petween 2-4 a.m and at a m stimulates the production	<b>TEST: TOTAL</b> ng/mL μgm/dL μIU/mL	4.87 - 12.60 0.35 - 5.50 <i>n. The variation is of the order of 50%.Hence tim</i> etabolically active hormones, thyroxine (T4)and	

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.

TRIIODOTH	YRONINE (T3)	THYROX	INE (T4)	THYROID STIMU	LATING 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)

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

 www.koshealthcare.com







	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. SATISH VERMA		
AGE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1686505
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>	: 012411300010
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:45 AM
BARCODE NO.	:01521716	<b>COLLECTION DATE</b>	: 30/Nov/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 30/Nov/2024 12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Tost Nomo	Valu	o Unit	Piological Potovonce interval

Test Name		Value Unit		Biological Reference interva		
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 LE	VELS 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)





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



MD (Pa		<b>Chopra</b> gy & Microbiology) Consultant Pathologis	M	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	
NAME	: Mr. SATISH VERMA				
AGE/ GENDER	: 65 YRS/MALE		PATIENT ID	: 1686505	
COLLECTED BY	:		REG. NO./LAB NO.	:0124113000	10
REFERRED BY	D BY :		<b>REGISTRATION DATE</b>	: 30/Nov/2024	08:45 AM
BARCODE NO.	:01521716		COLLECTION DATE	: 30/Nov/2024	09:06AM
CLIENT CODE.	CODE. : KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>		12:27PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTI			
Test Name		Value	Unit	Biolog	gical Reference interval
		Vľ	TAMINS		
	VI		YDROXY VITAMIN	D3	
by CLIA (CHEMILUMIN	DROXY VITAMIN D3): SER IESCENCE IMMUNOASSAY)	UM <b>28.166<sup>L</sup></b>	ng/mL	INSUI SUFFI	EIENCY: < 20.0 FFICIENCY: 20.0 - 30.0 CIENCY: 30.0 - 100.0 ETTY: > 100.0
<u>NTERPRETATION:</u> DEEL	CIENT:	< 20		ng/mL	7
	FICIENT:	21 - 29	\	ng/mL	-
	ED RANGE:	30 - 100		ng/mL	
	ICATION:   nds are derived from dietary (	> 100		ng/mL	
2.25-OHVitamin D r issue and tightly bo 3.Vitamin D plays a p bhosphate reabsorp 4.Severe deficiency r DECREASED: 1.Lack of sunshine e	vdrocholecalciferol to Vitamin represents the main body rese und by a transport protein wh primary role in the maintenan tion, skeletal calcium depositi may lead to failure to mineral xposure. , malabsorption (celiac diseas	evoir and transport f hile in circulation. ice of calcium home ion, calcium mobiliz ize newly formed os	form of Vitamin D and tra costatis. It promotes calci ation, mainly regulated b	um absorption, rena y parathyroid harmo	calcium absorption and ne (PTH).





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







IAME	: Mr. SATISH VERMA			
GE/ GENDER	: 65 YRS/MALE	PATIENT ID	: 1686505	
OLLECTED BY	:	<b>REG. NO./LAB NO.</b>	:012411300010	
EFERRED BY	:	<b>REGISTRATION DATE</b>	: 30/Nov/2024 08:45 AM	
BARCODE NO.	:01521716	COLLECTION DATE	: 30/Nov/2024 09:06AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 30/Nov/2024 12:52PM	
LIENT ADDRESS			. 30/ NOV/ 2024 12.32FM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
<b>Fest Name</b> /ITAMIN B12/COE		Value         Unit           VITAMIN B12/COBALAMIN         188.23 <sup>L</sup> pg/mL           SSAY)         188.23 <sup>L</sup> pg/mL	Biological Reference interval	
/ITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:-	IESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL	190.0 - 830	
/ITAMIN B12/COE by CMIA (CHEMILUMIN NTERPRETATION:- INCREAS	IESCENT MICROPARTICLE IMMUNOAS	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL SAY) DECREASED VITAM	190.0 - 830	
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 nin C	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL SAY) DECREASED VITAM 1.Pregnancy	190.0 - 830	
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 hin C gen	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL SAY) DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant	190.0 - 830	
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro 3.Ingestion of Vitan	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 hin C gen hin A	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL SAY) DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant 3.Ethanol Igestion	190.0 - 830	
/ITAMIN B12/COE by CMIA (CHEMILUMIN <u>NTERPRETATION:-</u> INCREAS 1.Ingestion of Vitan 2.Ingestion of Estro	IESCENT MICROPARTICLE IMMUNOAS SED VITAMIN B12 gen pin A jury	VITAMIN B12/COBALAMIN 188.23 <sup>L</sup> pg/mL SAY) DECREASED VITAM 1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsant	190.0 - 830	

the neurologic defects without macrocytic anemia. 6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **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.

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



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	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult		licrobiology) MD (Pathology)			
NAME : Mr. SAT	TISH VERMA					
AGE/ GENDER : 65 YRS/	MALE	PA	TIENT ID	: 1686505		
COLLECTED BY :		RE	G. NO./LAB NO.	:012411300010		
<b>REFERRED BY</b> :		RE	GISTRATION DATE	: 30/Nov/2024 08:45 AM		
<b>BARCODE NO.</b> : 015217	16	CO	LLECTION DATE	: 30/Nov/2024 09:06AM		
	GNOSTIC LAB		PORTING DATE	: 30/Nov/2024 09:28AM		
CLIENT ADDRESS : 6349/1, NICHOLSON ROAD, AMBALA CANTT						
Test Name		Value	Unit	<b>Biological Reference interval</b>		
		CLINICAL PA	ATHOLOGY			
	URINE RO	UTINE & MICRO	DSCOPIC EXAMINA	ATION		
PHYSICAL EXAMINATION						
QUANTITY RECIEVED	TROPHOTOMETRY	10	ml			
COLOUR		AMBER YEL	LOW	PALE YELLOW		
by DIP STICK/REFLECTANCE SPEC TRANSPARANCY by DIP STICK/REFLECTANCE SPEC		CLEAR		CLEAR		
SPECIFIC GRAVITY		1.01		1.002 - 1.030		
CHEMICAL EXAMINATION						
REACTION by DIP STICK/REFLECTANCE SPEC	TROPHOTOMETRY	ALKALINE				
PROTEIN by DIP STICK/REFLECTANCE SPEC		Negative		NEGATIVE (-ve)		
SUGAR by DIP STICK/REFLECTANCE SPEC	TROPHOTOMETRY	Negative		NEGATIVE (-ve)		
pH by DIP STICK/REFLECTANCE SPEC		7.5		5.0 - 7.5		
BILIRUBIN by DIP STICK/REFLECTANCE SPEC	TROPHOTOMETRY	Negative		NEGATIVE (-ve)		
NITRITE by DIP STICK/REFLECTANCE SPEC	TROPHOTOMETRY.	Negative		NEGATIVE (-ve)		
UROBILINOGEN by DIP STICK/REFLECTANCE SPEC		Normal	EU/dL	0.2 - 1.0		
KETONE BODIES by DIP STICK/REFLECTANCE SPEC		Negative		NEGATIVE (-ve)		
BLOOD		Negative		NEGATIVE (-ve)		
by DIP STICK/REFLECTANCE SPEC ASCORBIC ACID by DIP STICK/REFLECTANCE SPEC	TROPHOTOMETRY	NEGATIVE (	-ve)	NEGATIVE (-ve)		
MICROSCOPIC EXAMINATIO RED BLOOD CELLS (RBCs)	<u>DN</u>	NEGATIVE (	-ve) /HPF	0 - 3		

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

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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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

NAME	: Mr. SATISH VERMA			
AGE/ GENDER	: 65 YRS/MALE		ATIENT ID	: 1686505
COLLECTED BY	:	<b>REG. NO./LAB NO.</b>		: 012411300010
REFERRED BY	:	RI	EGISTRATION DATE	: 30/Nov/2024 08:45 AM
BARCODE NO.	:01521716	CO	<b>DLLECTION DATE</b>	: 30/Nov/2024 09:06AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 30/Nov/2024 09:28AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT			
PUS CELLS		2-3	/HPF	0 - 5

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

PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/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 \*\*\*



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

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