



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)	
NAME	: Mr. SHIVAM VERMA				
AGE/ GENDER	: 28 YRS/MALE		PATIENT ID	: 1553932	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012407190037	
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 19/Jul/2024 10:16 AM	
BARCODE NO.	: 01513430		<b>COLLECTION DATE</b>	: 19/Jul/2024 10:19AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Jul/2024 10:33AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTI	Γ		
Test Name		Value	Unit	Biological Reference interval	
	SWAS	THYA WI	ELLNESS PANEL: 1.5		
	CON	API FTF BI	OOD COUNT (CBC)		
RED BLOOD CELLS (	RBCS) COUNT AND INDICES				
HAEMOGLOBIN (HB		14.2	gm/dL	12.0 - 17.0	
by CALORIMETRIC	,		-		
RED BLOOD CELL (RI	BC) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.32 <sup>H</sup>	Millions/o	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
PACKED CELL VOLUN	VIE (PCV)	44.5	%	40.0 - 54.0	
	AUTOMATED HEMATOLOGY ANALYZER	D2 7	fL	80.0 - 100.0	
MEAN CORPUSCULA by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER	83.7	IL	80.0 - 100.0	
	AR HAEMOGLOBIN (MCH)	26.7 <sup>L</sup>	pg	27.0 - 34.0	
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.9 <sup>L</sup>	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	FION WIDTH (RDW-CV) AUTOMATED HEMATOLOGY ANALYZER	12.9	%	11.00 - 16.00	
RED CELL DISTRIBUT	TION WIDTH (RDW-SD) AUTOMATED HEMATOLOGY ANALYZER	40.4	fL	35.0 - 56.0	
MENTZERS INDEX		15.73	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13	
GREEN & KING INDE	EX	20.3	RATIO	BETA THALASSEMIA TRAIT: < = 65.0	1.0
WHITE BLOOD CELL	S (WBCS)			IRON DEFICIENCY ANEMIA: > 65	ō.0
TOTAL LEUCOCYTE C		6150	/cmm	4000 - 11000	
NUCLEATED RED BL		NIL		0.00 - 20.00	
NUCLEATED RED BL	OOD CELLS (nRBCS) % automated hematology analyzer & OCYTE COUNT (DLC)	NIL	%	< 10 %	



**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.





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology) Chairman & Consultant Pathologist			(Pathology)
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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS		59	%	50 - 70
•	Y BY SF CUBE & MICROSCOPY			
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	26	%	20 - 40
EOSINOPHILS	T BT SF COBE & MICROSCOPT	gН	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	7		
MONOCYTES		6	%	2 - 12
by FLOW CYTOMETRY BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
	Y BY SF CUBE & MICROSCOPY	0	70	0-1
ABSOLUTE LEUKOCY				
ABSOLUTE NEUTROF	PHIL COUNT	3629	/cmm	2000 - 7500
	Y BY SF CUBE & MICROSCOPY	0027	,	2000 1000
ABSOLUTE LYMPHO		1599	/cmm	800 - 4900
By FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	EE 4H	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY	554 <sup>H</sup>	7011111	40 - 440
ABSOLUTE MONOCY		369	/cmm	80 - 880
	Y BY SF CUBE & MICROSCOPY			0, 110
	Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	HER PLATELET PREDICTIVE MARK	KERS.		
PLATELET COUNT (PI		213000	/cmm	150000 - 450000
•	OCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT)		0.26	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE	H	fL	4 EQ 12 Q
MEAN PLATELET VO	OUSING, ELECTRICAL IMPEDENCE	12 <sup>H</sup>	IL IL	6.50 - 12.0
PLATELET LARGE CEL		87000	/cmm	30000 - 90000
	OCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CEL	LL RATIO (P-LCR)	40.6	%	11.0 - 45.0
PLATELET DISTRIBUT		16.5	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE	10.0	70	13.0 17.0
NOTE: TEST CONDU	CTED ON EDTA WHOLE BLOOD			

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>8.0

<7.5

	Dr. Vinay Che MD (Pathology & Chairman & Cons	Microbiology)	Dr. Yugam MD O & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMOGLOE	SIN (HBA1C)	
GLYCOSYLATED HAEM( WHOLE BLOOD	DGLOBIN (HbA1c):	5.3	%	4.0 - 6.4
ESTIMATED AVERAGE F	· · · · · ·	105.41	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP			n %
	etic Adults >= 18 years	<5.7		
	Risk (Prediabetes)	5.7 -		
Dia	gnosing Diabetes	>= (		
		Age > 1	<b>7 Years</b> < 7.0	
There is		Goals of Therapy:	< 7.0	)

## COMMENTS:

1. Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of

Actions Suggested:

Goal of therapy:

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

Age < 19 Years

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.





Therapeutic goals for glycemic control

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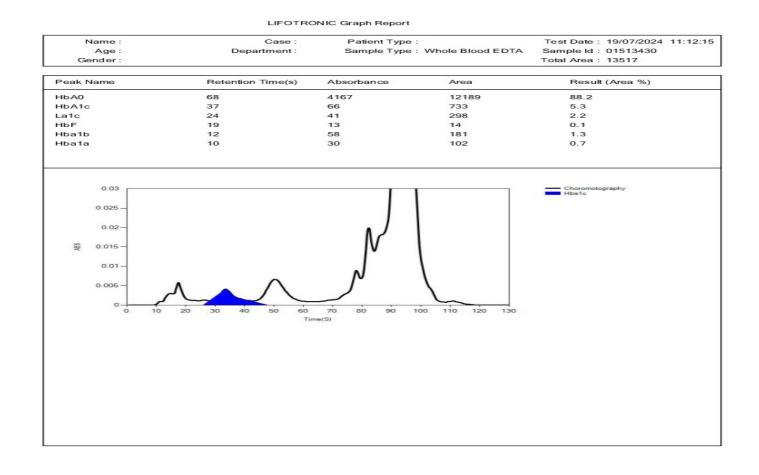


TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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Test Name		Value Unit	Biological Reference interval







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NAME	: Mr. SHIVAM VERMA			
AGE/ GENDER	: 28 YRS/MALE	PATIE	INT ID	: 1553932
COLLECTED BY	: SURJESH	REG. N	NO./LAB NO.	:012407190037
REFERRED BY	:	REGIS	TRATION DATE	: 19/Jul/2024 10:16 AM
BARCODE NO.	:01513430	COLLI	ECTION DATE	: 19/Jul/2024 10:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 19/Jul/2024 10:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	FRYTH	ROCYTE SEDIMENT	ATION RATE (ESR)	
by MODIFIED WESTER NTERPRETATION: 1. ESR is a non-specifi mmune disease, but 4 2. An ESR can be affect as C-reactive protein 3. This test may also b systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 5. Drugs such as dextri	does not tell the health practition ted by other conditions besides we used to monitor disease activity matosus <b>V ESR</b> n with conditions that inhibit the ificantly high white blood cell co e cell anaemia) also lower the ES e protein (C-RP) are both markers is not change as rapidly as does C by as many other factors as is ESI ed, it is typically a result of two type (e a higher ESR, and menstruatio	ner exactly where the ir inflammation. For this r ity and response to ther normal sedimentation bunt (leucocytosis) , and SR. s of inflammation. cRP, either at the start o <b>R, making it a better ma</b> ypes of proteins, globuli n and pregnancy can ca	flammation is in the b eason, the ESR is typic apy in both of the abc of red blood cells, suc some protein abnorm f inflammation or as it <b>ker of inflammation</b> . us or fibrinogen.	callý used in conjunctión with other test such we diseases as well as some others, such as h as a high red blood cell count nalities. Some changes in red cell shape (suc





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		Chopra gy & Microbiology) Consultant Pathologis		(Pathology)
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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 19/Jul/2024 12:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
	CL		STRY/BIOCHEMISTR	Y
		GLUCOS	E FASTING (F)	
GLUCOSE FASTING (I by glucose oxidas	E): PLASMA E - PEROXIDASE (GOD-POD)	83.74	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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.
 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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME AGE/ GENDER	: <b>Mr. SHIVAM VERMA</b> : 28 YRS/MALE	PAT	FIENT ID	: 1553932
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by cholesterol ox		196.24	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	80.09	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBITI		57.42	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		122.8	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		138.82 <sup>H</sup>	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		16.02	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	N	472.57	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	3.42	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by calculated, spe		2.14	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.39 <sup>L</sup>	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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Test Name		Value	Unit	Biological Reference interval
			N TEST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY		1.16	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.39	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	C (UNCONJUGATED): SERUM	0.77	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	RIDOXAL PHOSPHATE	41.05	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT P	(RIDOXAL PHOSPHATE	77.69 <sup>H</sup>	U/L	0.00 - 49.00
AST/ALT RATIO: SER by CALCULATED, SPE		0.53	RATIO	0.00 - 46.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	70.5	U/L	40.0 - 150.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	20.6	U/L	0.00 - 55.0
TOTAL PROTEINS: SE	ERUM	7.98	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		5.02	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPE		2.96	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPE	I	1.7	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		Value	Unit Biological Reference interv	al

## 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).

PROGNOSTIC SIGNIFICANCE:

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	Dr. Vinay Cł MD (Pathology Chairman & Col			(Pathology)
NAME	: Mr. SHIVAM VERMA			
AGE/ GENDER	: 28 YRS/MALE	]	PATIENT ID	: 1553932
COLLECTED BY	: SURJESH	]	REG. NO./LAB NO.	: 012407190037
REFERRED BY	:	]	REGISTRATION DATE	: 19/Jul/2024 10:16 AM
BARCODE NO.	: 01513430	(	COLLECTION DATE	: 19/Jul/2024 10:19AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	]	REPORTING DATE	: 19/Jul/2024 12:05PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	к	DNEY FUNCTIO	N TEST (COMPLETE)	
UREA: SERUM		24.13	mg/dL	10.00 - 50.00
-	ATE DEHYDROGENASE (GLDH)	0.00	m n (all	0.40, 1.40
CREATININE: SERUN by ENZYMATIC, SPEC		0.92	mg/dL	0.40 - 1.40
	)GEN (BUN): SERUM	11.28	mg/dL	7.0 - 25.0
	<i>естгорнотометгу</i> )GEN (BUN)/CREATININE	12.26	RATIO	10.0 - 20.0
RATIO: SERUM		12.20	KATIO	10.0 - 20.0
	ECTROPHOTOMETRY	0 ( 00	DATIO	
JREA/CREATININE F by CALCULATED, SPE	RATIO: SERUM ECTROPHOTOMETRY	26.23	RATIO	
URIC ACID: SERUM		6.7	mg/dL	3.60 - 7.70
by uricase - oxidas CALCIUM: SERUM	SE PEROXIDASE	9.35	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	7.33	ing/uL	8.50 - 10.00
PHOSPHOROUS: SEF		3.83	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
sodium: serum		140.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		4.32	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	·-···/	105.15	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE) RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	116.2		
(eGFR): SERUM		110.2		
by CALCULATED				

# INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		m Chopra D (Pathology) nt Pathologist	
	N CHINAN					
NAME	: Mr. SHIVAN					
AGE/ GENDER	: 28 YRS/MAI	.E	PA	TIENT ID	: 1553932	
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CLIENT ADDRESS	: 6349/1. NIC	HOLSON ROAD, AMBA	LA CANTT			
	,	,,				
Test Name			Value	Unit	Biological	Reference interval
6. Inherited hyperam 7. SIADH (syndrome o 3. Pregnancy. <b>DECREASED RATIO (</b> <	rosis. ed starvation. ecreased urea sy (urea rather tha imonemias (ure of inappropiate 10:1) WITH INCR upy (accelerates releases muscle	nthesis. n creatinine diffuses o a is virtually absent in l antidiuretic harmone) o <b>EASED CREATININE:</b> conversion of creatine creatinine).	blood). due to tubular	secretion of urea.		
3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido	): osis (acetoacetat	te causes false increase	e in creatinine	with certain methodo	logies,resulting in norma	al ratio when dehydrati
<ol> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin the</li> </ol>	): osis (acetoacetat icreased BUN/cr rapy (interferes	te causes false increase reatinine ratio). with creatinine measur		with certain methodo	logies,resulting in norma	al ratio when dehydrati
<ol> <li>Muscular patients</li> <li>NAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> </ol>	): osis (acetoacetat icreased BUN/cr rapy (interferes	te causes false increase reatinine ratio). with creatinine measur	ement).		logies,resulting in norma	al ratio when dehydrati
3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thei ESTIMATED GLOMERU CKD STAGE G1	b: psis (acetoacetal icreased BUN/cr rapy (interferes JLAR FILTERATIO No	te causes false increase reatinine ratio). with creatinine measur <b>DR RATE:</b> DESCRIPTION rmal kidney function	GFR ( mL/	min/1.73m2) #	ISSOCIATED FINDINGS	al ratio when dehydrati
<ol> <li>Muscular patients</li> <li>MAPPROPIATE RATIO</li> <li>Diabetic ketoacido</li> <li>should produce an in</li> <li>Cephalosporin the</li> <li>ESTIMATED GLOMERI</li> <li>CKD STAGE</li> </ol>	D: poiss (acetoacetat icreased BUN/cr rapy (interferes JLAR FILTERATIO NO K	te causes false increase reatinine ratio). with creatinine measur <b>DRATE:</b> DESCRIPTION rmal kidney function idney damage with	GFR ( mL/	min/1.73m2) #	SSOCIATED FINDINGS No proteinuria Presence of Protein ,	al ratio when dehydrati
3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thei ESTIMATED GLOMERU CKD STAGE G1	b: psis (acetoacetal icreased BUN/cr rapy (interferes JLAR FILTERATIO No K	te causes false increase reatinine ratio). with creatinine measur <b>DR RATE:</b> DESCRIPTION rmal kidney function	GFR ( mL/	min/1.73m2) #	ISSOCIATED FINDINGS	al ratio when dehydrati

Severe decrease in GFR Kidney failure

Moderate decrease in GFR

G3b

G4

G5

Г

30-59

15-29

<15

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	<b>Dr. Vinay Chopra</b> MD (Pathology & Micro Chairman & Consultan	obiology) MD	n <b>Chopra</b> D (Pathology) t Pathologist
NAME	: Mr. SHIVAM VERMA		
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Test Name		Value Unit	<b>Biological Reference interval</b>

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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	M	<b>Dr. Vinay Chopra</b> ID (Pathology & Microbiology) hairman & Consultant Patholog		(Pathology)
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CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		IRO	N PROFILE	
IRON: SERUM	TROPHOTOMETRY	116.1	μg/dL	65.0 - 175.0
UNSATURATED IRON SERUM	N BINDING CAPAC		μg/dL	150.0 - 336.0
TOTAL IRON BINDIN SERUM	IG CAPACITY (TIBO		μg/dL	230 - 430
%TRANSFERRIN SAT	URATION: SERUN		%	15.0 - 50.0
TRANSFERRIN: SERU	M	261.28	mg/dL	200.0 - 350.0
<u>INTERPRETATION:-</u> VARIAE	BLES	ANEMIA OF CHRONIC DISEASE	IRON DEFICIENCY ANEMIA	A THALASSEMIA $\alpha/\beta$ TRAIT
CEDUM I	-	Normal to Doduced	Deduced	Normal

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

IRON:

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

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

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

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



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NAME	: Mr. SHIVAM VERMA			
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Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	TH	(ROID FUN	CTION TEST: TOTAL	
TRIIODOTHYRONINE	(T3): SERUM	1.021	ng/mL	0.35 - 1.93
THYROXINE (T4): SER	ESCENT MICROPARTICLE IMMUNOASSA 2UM ESCENT MICROPARTICLE IMMUNOASSA	7.74	μgm/dL	4.87 - 12.60
THYROID STIMULATI	NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSA	2.208	µIU/mL	0.35 - 5.50

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 (eg: phenytoin , salicylates).

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

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

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





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	1	<b>Dr. Vinay Chop</b> MD (Pathology & M Chairman & Consul	licrobiology)		<b>Igam Chopra</b> MD (Pathology) ultant Pathologist	
NAME	: Mr. SHIVAM	VERMA				
AGE/ GENDER	: 28 YRS/MAL	E		PATIENT ID	: 1553932	
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CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AM	ÍBALA CANTT			
Test Name			Value	Unit	Biolog	gical Reference interval
6 - 12 Months 0	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	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)					
RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY ( 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, idonie containing agents & dopamine antagonist.

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

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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	MD (Pathology & Chairman & Con	opra Microbiology) sultant Pathologis		(Pathology)
AME	: Mr. SHIVAM VERMA			
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Test Name		Value	Unit	Biological Reference interval
		TESTOSTE	ERONE: TOTAL	
TESTOSTERONE - TO	TAL: SERUM	7.86	ng/mL	0.47 - 9.80
1.Precocious puberty 2.Androgen resistant 3.Testoxicosis 4.Congenital Adrena 5.Polycystic ovarian 7.Ovarian tumors <b>DECREASED LEVELS:</b> 1.Delayed puberty (N 2.Gonadotropin defin 3.Testicular defects	ce I Hyperplasia disease			
4.Systemic diseases				





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		nsultant Pathologist	t CEO & Consultant	
NAME AGE/ GENDER	: Mr. SHIVAM VERMA		DATIENT ID	. 1552022
	: 28 YRS/MALE		PATIENT ID	: 1553932
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CLIENT ADDRESS	. 05457 1, MCHOLSON KOAD,	AWDALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VIT	AMINS	
	VI	TAMIN D/25 H	DROXY VITAMIN D3	
VITAMIN D (25-HYDR	OXY VITAMIN D3): SERUM	21.7 <sup>L</sup>	ng/mL	DEFICIENCY: < 20.0
by CLIA (CHEMILUMINE	ESCENCE IMMUNOASSAY)			INSUFFICIENCY: 20.0 - 30.0
				SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
INTERPRETATION:				TOXICITY: > 100.0
DEFICI		< 20		g/mL
INSUFFI	CIENT:	21 - 29	n	g/mL
DDEEEEDEE	DANCE			
conversion of 7- dihvd	ATION: ds are derived from dietary ero	30 - 100 > 100 Jocalciferol (from 1 3 in the skin upon	ng ng olants, Vitamin D2), or cho Ultraviolet exposure	g/mL g/mL lecalciferol (from animals, Vitamin D3), or by
INTOXIC 1. Vitamin D compound conversion of 7- dihvd 2.25-OHVitamin D rej tissue and tightly bour 3. Vitamin D plays a pri phosphate reabsorptic 4. Severe deficiency ma <b>DECREASED:</b> 1. Lack of sunshine exp 2. Inadeguate intake, n 3. Depressed Hepatic V 4. Secondary to advance 5. Osteoporosis and Se 6. Enzyme Inducing dru INCREASED: 1. Hypervitaminosis D severe hypercalcemia a CAUTION: Replacemen hypervitaminosis D	ATION: ds are derived from dietary ero rocholecalciferol to Vitamin D presents the main body resevents imary role in the maintenance on, skeletal calcium deposition ay lead to failure to mineralize osure. malabsorption (celiac disease) Vitamin D 25- hydroxylase active condary Hyperparathroidism ( ugs: anti-epileptic drugs like phi is Rare, and is seen only after and hyperphophatemia. therapy in deficient individual andividuals as compare to whites	30 - 100 > 100 localciferol (from r 3 in the skin upon ir and transport for e in circulation. of calcium homeo , calcium mobiliza newly formed ost ity Mild to Moderate enytoin, phenobal prolonged exposur als must be monitor	deficiency) re to extremely high doses pred by periodic assessmen	g/mL g/mL lecalciferol (from animals, Vitamin D3), or by port form of Vitamin D, being stored in adipos n absorption, renal calcium absorption and

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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
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		,			
Test Name		Value	Unit	Biological Reference interval	
INTERPRETATION:-	IESCENT MICROPARTICLE IMMUNO			N B12	
	INCREASED VITAMIN B12         DECREASED VITAMIN B12           1.Ingestion of Vitamin C         1.Pregnancy			NBI2	
2.Ingestion of Estro			1.Pregnancy 2.DRUGS:Aspirin, Anti-convulsants, Colchicine		
3.Ingestion of Vitan	nin A	3.Ethanol Igesti	3.Ethanol Igestion		
4.Hepatocellular in			4. Contraceptive Harmones		
5.Myeloproliferativ 6.Uremia	e disorder	5.Haemodialys			
	lamin) is necessary for hemator	6. Multiple Mye			
3. The body uses its v excreted. 4. Vitamin B12 deficie ileal resection, small 5. Vitamin B12 deficie proprioception, poor the neurologic defec 6. Serum methylmalo 7. Follow-up testing f <b>NOTE:</b> A normal serur deficiency at the cell	ency may be due to lack of IF se l intestinal diseases). ency frequently causes macrocy coordination, and affective be ts without macrocytic anemia. nic acid and homocysteine leve or antibodies to intrinsic factor m concentration of vitamin B12	ically, reabsorbing vitamin cretion by gastric mucosa ytic anemia, glossitis, perip havioral changes. These m els are also elevated in vita (IF) is recommended to ic does not rule out tissue d . If clinical symptoms suggi	B12 from the ileun (eg, gastrectomy, g oheral neuropathy, nanifestations may o min B12 deficiency dentify this potentia eficiency of vitamin	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (eg weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have	





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



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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)	
NAME	: Mr. SHIVAM VERMA				
AGE/ GENDER	: 28 YRS/MALE	PAT	TIENT ID	: 1553932	
COLLECTED BY	: SURJESH	REG	. NO./LAB NO.	: 012407190037	
REFERRED BY	•	REG	SISTRATION DATE	: 19/Jul/2024 10:16 AM	
BARCODE NO.	:01513430		LECTION DATE	: 19/Jul/2024 10:19AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 19/Jul/2024 11:43AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD				
		,,			
Test Name		Value	Unit	Biological Reference interval	
		CLINICAL PA	THOLOGY		
	LIRINE	ROUTINE & MICRO			
PHYSICAL EXAMINA					
		10			
	D TANCE SPECTROPHOTOMETRY	10	ml		
COLOUR		AMBER YELLO	N	PALE YELLOW	
	TANCE SPECTROPHOTOMETRY				
	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR	
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
CHEMICAL EXAMINA	ATION				
REACTION		ACIDIC			
by DIP STICK/REFLEC PROTEIN	TANCE SPECTROPHOTOMETRY	Negativo		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
SUGAR		Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY			50.75	
pH by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5	
BILIRUBIN		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				
		Negative		NEGATIVE (-ve)	
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		20,02		
KETONE BODIES		Negative		NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)	
	TANCE SPECTROPHOTOMETRY	Tregative			
ASCORBIC ACID		NEGATIVE (-ve	)	NEGATIVE (-ve)	
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY				

MICROSCOPIC EXAMINATION



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NAME

AGE/ GENDER





Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist : Mr. SHIVAM VERMA **PATIENT ID** : 28 YRS/MALE :1553932 REG. NO./LAB NO. **REGISTRATION DATE** 

**COLLECTION DATE** 

**REPORTING DATE** 

**BARCODE NO.** :01513430 **CLIENT CODE. CLIENT ADDRESS** 

**COLLECTED BY** : SURJESH **REFERRED BY** : : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA CANTT

:012407190037 : 19/Jul/2024 10:16 AM : 19/Jul/2024 10:19AM : 19/Jul/2024 11:43AM

Test Name	Value	Unit	Biological Reference interval
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	1-2	/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)
DTHERS 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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