

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	Dr. Yugam MD (F CEO & Consultant P	Pathology)
	: Mr. PRAMOD SHARMA			170,4000
GE/ GENDER	: 22 YRS/MALE		ATIENT ID	: 1724202
COLLECTED BY REFERRED BY	: SURJESH		EG. NO./LAB NO. EGISTRATION DATE	: 012501150013 : 15/Jan/2025 09:46 AM
BARCODE NO.	: 01523896		DLLECTION DATE	: 15/Jan/2025 10:07AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 15/Jan/2025 10:31AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Fest Name		Value	Unit	Biological Reference interval
	SWAST	HYA WELL	NESS PANEL: 1.5	
	COMP	LETE BLOO	DD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (H)	B)	14.8	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (1	RBC) COUNT	4.98	Millions/c	mm 3.50 - 5.00
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLU	JME (PCV) UTOMATED HEMATOLOGY ANALYZER	44	%	40.0 - 54.0
	AR VOLUME (MCV) utomated hematology analyzer	88.3	fL	80.0 - 100.0
MEAN CORPUSCUL	AR HAEMOGLOBIN (MCH)	29.7	pg	27.0 - 34.0
	UTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	33.6	g/dL	32.0 - 36.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
	UTION WIDTH (RDW-CV) utomated hematology analyzer	13	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	43	fL	35.0 - 56.0
MENTZERS INDEX	CTOMATED HEMATOLOGT ANALIZEN	17.73	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0 IRON DEFICIENCY ANEMIA:
				>13.0
GREEN & KING IND	DEX	23.04	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
Sy Cheocentee				IRON DEFICIENCY ANEMIA: >
				65.0
NHITE BLOOD CEI TOTAL LEUCOCYTE		5830	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY		/ chini	
	LOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by automated 6 par NUCLEATED RED B	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. PRAMOD SHARMA AGE/ GENDER : 22 YRS/MALE **PATIENT ID** :1724202 **COLLECTED BY** : SURJESH :012501150013 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 15/Jan/2025 09:46 AM : **BARCODE NO.** :01523896 **COLLECTION DATE** : 15/Jan/2025 10:07AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 15/Jan/2025 10:31AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC)** NEUTROPHILS 54 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 25% 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 3 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 18^H % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3148 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1458 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 175 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 1049^H /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 280000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.26 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 9 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) 58000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 20.511.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.7% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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Test Name	Value	Unit	Biological Reference interval





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	4.9 93.93	EMOGLOBIN (HBA1) % mg/dL	4.0 - 6.4 60.00 - 140.00
	AS PER AMERICAN D	IABETES ASSOCIAT	TION (ADA):	
REFERENCE GROUP		GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %
	REFERENCE GROUP	ULIV	CO2ATED HEIMOGFOOIR	
	abetic Adults >= 18 years		<5.7	
Non dia			<5.7 5.7 – 6.4	
Non dia A	abetic Adults >= 18 years		<5.7 5.7 - 6.4 >= 6.5	
Non dia A D	abetic Adults >= 18 years t Risk (Prediabetes)	Goals o	<5.7 5.7 - 6.4 >= 6.5 Age > 19 Years f Therapy: Suggested:	< 7.0 >8.0
Non dia A D	abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	Goals o Actions	<5.7 5.7 - 6.4 >= 6.5 Age > 19 Years f Therapy:	< 7.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Refer	ence interval
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigi as sickle cells in sick NOTE:	be used to monitor disease activi ematosus W ESR en with conditions that inhibit the nificantly high white blood cell co le cell anaemia) also lower the ES	normal sedimentation of unt (leucocytosis) , and s SR.	f red blood cells, such a	s a high red blood cell co	unt
2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dexi	re protein (C-RP) are both markers as not change as rapidly as does C I by as many other factors as is ESF red, it is typically a result of two ty ave a higher ESR, and menstruation tran, methyldopa, oral contracept and quinine may decrease it	RP, either at the start of R, making it a better mark ypes of proteins, globulin n and pregnancy can caus	er of inflammation. s or fibrinogen. se temporary elevations	5.	se ESR, while





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	CLIN		STRY/BIOCHEMIST E FASTING (F)	'nY
GLUCOSE FASTING	(F): PLASMA E - PEROXIDASE (GOD-POD)	93.68	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

INTERPRETATION IN ACCORDANCE 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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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Test Name		Value	Unit	Biological Reference interval
		LIPID PROF	ILE : BASIC	
CHOLESTEROL TO	TAL: SERUM	183.34	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX	IDASE PAP		8	BORDERLINE HIGH: 200.0 -
				239.0 HIGH CHOLESTEROL: > OR =
				240.0
RIGLYCERIDES: S		68.23	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSP	HATE OXIDASE (ENZYMATIC)			BORDERLINE HIGH: 150.0 - 199.0
				HIGH: 200.0 - 499.0
				VERY HIGH: $> OR = 500.0$
IDL CHOLESTERO	L (DIRECT): SERUM	50.45	mg/dL	LOW HDL: < 30.0
by SELECTIVE INTIBIT	ON			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
DL CHOLESTEROI		119.25	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	CIROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129. BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLEST	FROL · SFRUM	199.00	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
by CALCULATED, SPE		132.89 ^H	ing/ ull	ABOVE OPTIMAL: 130.0 - 159.
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: $> OR = 220.0$
LDL CHOLESTER(13.65	mg/dL	0.00 - 45.00
FOTAL LIPIDS: SER		434.92	mg/dL	350.00 - 700.00
by CALCULATED, SPE	CTROPHOTOMETRY			
CHOLESTEROL/HD by CALCULATED, SPE		3.63	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 Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		2.36	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE		1.35 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

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

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

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

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





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Test Name		Value	Unit	Biological Reference interval
	LIVER		N TEST (COMPLETE)	
BILIRUBIN TOTAL	: SERUM PECTROPHOTOMETRY	0.56	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.13	mg/dL	0.00 - 0.40
	ECT (UNCONJUGATED): SERUM	0.43	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	[/RIDOXAL PHOSPHATE	24.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[/RIDOXAL PHOSPHATE	23.9	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	1.01	RATIO	0.00 - 46.00
ALKALINE PHOSP by para nitrophen propanol	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	82.3	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	22	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		7.88	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.58	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPI	I ECTROPHOTOMETRY	3.3	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M ECTROPHOTOMETRY	1.39	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE:- Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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INTERPRETATION





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DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

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



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	Dr. Vinay Cho MD (Pathology & M Chairman & Consu	licrobiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. PRAMOD SHARMA			
AGE/ GENDER	: 22 YRS/MALE	PATI	ENT ID	: 1724202
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012501150013
REFERRED BY	:	REGI	STRATION DATE	: 15/Jan/2025 09:46 AM
BARCODE NO.	: 01523896	COLL	ECTION DATE	: 15/Jan/2025 10:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 15/Jan/2025 11:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	KIDNE	Y FUNCTION TE	ST (COMPLETE)	
UREA: SERUM		17.73	mg/dL	10.00 - 50.00
-	MATE DEHYDROGENASE (GLDH)	1.10	()7	
CREATININE: SERU by ENZYMATIC, SPEC		1.12	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	8.29	mg/dL	7.0 - 25.0
by CALCULATED, SPE	ECTROPHOTOMETRY ROGEN (BUN)/CREATININE	7.4 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	(DOR)/ CREATININE	7.4-	KATIO	10.0 - 20.0
by CALCULATED, SPE			D. L. T.L.O.	
UREA/CREATININ by CALCULATED, SPE		15.83	RATIO	
URIC ACID: SERUM		5.24	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.81	mg/dI	8.50 - 10.60
by ARSENAZO III, SPE	CTROPHOTOMETRY	9.01	mg/dL	8.30 - 10.00
PHOSPHOROUS: SE		4.09	mg/dL	2.30 - 4.70
by PHOSPHOMOLYBE ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
SODIUM: SERUM		141.2	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	E ELECTRODE)	141.2		
POTASSIUM: SERU		4.22	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM		105.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	(E ELECTRODE)			
	IERULAR FILTERATION RATE			
(eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	95.3		

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.



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IAME	: Mr. PRAMO	D SHARMA						
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COLLECTED BY	: SURJESH		RI	EG. NO./LAB NO.	. :()1250115001	13	
REFERRED BY	•			EGISTRATION D		5/Jan/2025 09		
BARCODE NO.	: 01523896			DLLECTION DAT		5/Jan/2025 10		
CLIENT CODE.	: KOS DIAGNO	STICIAD		EPORTING DATE		.5/Jan/2025 11		
				EPURIING DAID	с . I	.5/ Jan/ 2025 11	1.54AW	
CLIENT ADDRESS	: 6349/1, NIC	HOLSON ROAD, AMBA	ALA CANT I					
Test Name			Value	Uni	it	Biologi	ical Referen	ice interva
INCREASED RĂTIO (>2 1. Postrenal azotemia 2. Prerenal azotemia	tetracycline, glu 20:1) WITH ELEV a (BUN rises disp superimposed o	ATED CREATININE LEVE proportionately more to on renal disease.	LS:) (e.g. obstructive	e uropathy).			
INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1	tetracycline, glu tetracycline, glu (0:1) WITH ELEV/ a (BUN rises disp superimposed of (0:1) WITH DECR osis. and starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a (urea rather tha monemias (urea of inappropiate a (urea of ina	ATED CREATININE LEVE proportionately more t proportionately more to proportionately more to propor	LS: han creatinine blood). due to tubular to creatinine) e in creatinine rement).	ular fluid). secretion of urea with certain mett min/1.73m2) >90	hodologies, ASSOCI	ATED FINDINGS		nen dehydra
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 8. Phenacimide thera 9. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin thera 5. STIMATED GLOMERL CKD STAGE	tetracycline, glu tetracycline,	acocorticoids) ATED CREATININE LEVE proportionately more t proportionately more t proportionately more t proportionately more t proportionately more t proportionately more t proportionately more to proportionately more to proportionatel	LS: han creatinine blood). due to tubular to creatinine) e in creatinine rement).	ular fluid). secretion of urea with certain met min/1.73m2)	hodologies, ASSOCIA	ATED FINDINGS		hen dehydra
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of dec 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 6. Phenacimide thera 2. Rhabdomyolysis (r 8. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI CKD STAGE G1 G2 G3a	tetracycline, glu tetracycline, glu (0:1) WITH ELEV/ a (BUN rises disp superimposed of (0:1) WITH DECR osis. and starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a (0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes JLAR FILTERATIO Non Ki Non Ki Non	accoorticoids) ATED CREATININE LEVE proportionately more t proportionately	LS: han creatinine blood). due to tubular to creatinine) e in creatinine rement). GFR (mL/	ular fluid). secretion of urea with certain meth <u>min/1.73m2)</u> >90 >90 0 -89	hodologies, ASSOCIA	ATED FINDINGS proteinuria ce of Protein ,		hen dehydra
NCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet and 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients NAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin there <u>ESTIMATED GLOMERI</u> <u>CKD STAGE</u> <u>G1</u> <u>G2</u> <u>G3a</u> <u>G3a</u> <u>G3b</u>	tetracycline, glu tetracycline, glu (0:1) WITH ELEV/ a (BUN rises disp superimposed of (0:1) WITH DECR osis. and starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a (0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <u>JLAR FILTERATIO</u> Non Ki Non Mod	accoorticoids) ATED CREATININE LEVE proportionately more t proportionately	LS: han creatinine blood). due to tubular to creatinine e in creatinine rement). GFR (mL/	ular fluid). secretion of urea with certain meth <u>min/1.73m2) >90 >90 0 -89 :0-59</u>	hodologies, ASSOCIA	ATED FINDINGS proteinuria ce of Protein ,		hen dehydra
1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver diseas 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (< 1. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERI G1 G2 G3a	tetracycline, glu tetracycline, glu (0:1) WITH ELEV/ a (BUN rises disp superimposed of (0:1) WITH DECR osis. and starvation. e. creased urea sy (urea rather tha monemias (urea of inappropiate a (0:1) WITH INCR py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <u>JLAR FILTERATIO</u> Non Ki Non Mod	accoorticoids) ATED CREATININE LEVE proportionately more t proportionately	LS: han creatinine blood). due to tubular to creatinine e in creatinine rement). GFR (mL/ 6 3 1	ular fluid). secretion of urea with certain meth <u>min/1.73m2)</u> >90 >90 0 -89	hodologies, ASSOCIA	ATED FINDINGS proteinuria ce of Protein ,		hen dehydra



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









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NAME	: Mr. PRAMOD SHARMA		
AGE/ GENDER	: 22 YRS/MALE	PATIENT ID	: 1724202
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REFERRED BY	:	REGISTRATION DATE	: 15/Jan/2025 09:46 AM
BARCODE NO.	: 01523896	COLLECTION DATE	: 15/Jan/2025 10:07AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 15/Jan/2025 11:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
Test Name		Value Unit	Biological Reference interval

COMMENTS:

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

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

ADVICE:

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



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	١	Dr. Vinay Chopr 1D (Pathology & Mic Thairman & Consulta	robiology)		Pathology)
NAME	: Mr. PRAMOD	SHARMA			
AGE/ GENDER	: 22 YRS/MALE			PATIENT ID	: 1724202
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REFERRED BY	:			REGISTRATION DATE	: 15/Jan/2025 09:46 AM
BARCODE NO.	:01523896			COLLECTION DATE	: 15/Jan/2025 10:07AM
CLIENT CODE.	: KOS DIAGNOS	STIC LAB		REPORTING DATE	: 15/Jan/2025 11:55AM
CLIENT ADDRESS	: 6349/1, NICH	OLSON ROAD, AMB	ALA CANTT		
Test Name			Value	Unit	Biological Reference interval
			IRON	PROFILE	
IRON: SERUM by FERROZINE, SPEC	TROPHOTOMETRY		36.6 ^L	μg/dL	59.0 - 158.0
UNSATURATED IR SERUM	ON BINDING CA	PACITY (UIBC)	368.93 ^H	μg/dL	150.0 - 336.0
by FERROZINE, SPEC					
TOTAL IRON BIND :SERUM by SPECTROPHOTOM		(TIBC)	405.53	μg/dL	230 - 430
%TRANSFERRIN S. by CALCULATED, SPE	ATURATION: SH		9.03 ^L	%	15.0 - 50.0
TRANSFERRIN: SE by SPECTROPHOTOM			287.93	mg/dL	200.0 - 350.0
INTERPRETATION:-					
VARIAB		ANEMIA OF CHRON		IRON DEFICIENCY ANEMIA	
SERUM II	RON:	Normal to Rec	duced	Reduced	Normal

TOTAL IRON BINDING CAPACITY: Normal Decreased Increased % TRANSFERRIN SATURATION: Decreased Decreased < 12-15 % Normal **SERUM FERRITIN:** Normal to Increased Decreased Normal or Increased

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):

1.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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	MD (Patho	y Chopra logy & Microbiology) & Consultant Patholog	M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. PRAMOD SHARM	A		
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CLIENT ADDRESS	: 6349/1, NICHOLSON R	OAD, AMBALA CANT	Т	
Test Name		Value	Unit	Biological Reference interva
		ENDO	CRINOLOGY	
		THYROID FUN	CTION TEST: TOTAL	<u>.</u>
TRIIODOTHYRONI	NE (T3): SERUM IESCENT MICROPARTICLE IMM	1.021 IUNOASSAY)	ng/mI	0.35 - 1.93
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle imm	8.02 IUNOASSAY)	μgm/d	L 4.87 - 12.60
	ATING HORMONE (TSH): IESCENT MICROPARTICLE IMM		µIU/m	L 0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:				
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentrat	ions. TSH stimulates the p	roduction and secretion of the	<i>Dpm. The variation is of the order of 50%.Hence time of</i> metabolically active hormones, thyroxine (T4)and ther underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH
Primary Hypothyroidis		luced	Reduced	Increased (Significantly)
Subclinical Hypothyroi	uisin: Normai	or Low Normal	Normal or Low Normal	High

111	ЛІТД	TIC)NS:	-

Primary Hyperthyroidism:

Subclinical Hyperthyroidism:

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.

Increased

Normal or High Normal

Reduced (at times undetectable)

Reduced

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)		THYROXINE (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

Increased

Normal or High Normal





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





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NAME	: Mr. PRA	MOD SHARMA				
AGE/ GENDER	: 22 YRS/N	/ ALE		PATIENT ID	: 1724202	
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	:012501	150013
REFERRED BY	:			REGISTRATION DAT	FE : 15/Jan/2	2025 09:46 AM
BARCODE NO.	:0152389	6		COLLECTION DATE	: 15/Jan/2	2025 10:07AM
CLIENT CODE.	: KOS DIA	GNOSTIC LAB		REPORTING DATE	: 15/Jan/2	2025 11:46AM
CLIENT ADDRESS	S : 6349/1, 1	NICHOLSON ROAD,	AMBALA 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	

Ī	11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
Ĩ	> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
Ī		RECOM	VIENDATIONS OF TSH LE	VELS DURING PREGN	ANCY (µIU/mL)		
Ī		1st Trimester			0.10 - 2.50		
Ī		2nd Trimester			0.20 - 3.00		ſ
Ī		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





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 15/Jan/2025 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT	
Test Name		Val	
1 est maine		Value Unit	t Biological Reference interval
		MUNOPATHOLOGY/SEROI	LOGY
TYPHOID ANTIGEN	TYPHOID COMBO S J - SERUM		LOGY
TYPHOID ANTIGEN	TYPHOID COMBO S N - SERUM <i>MATOGRAPHY</i>) ODY IgG	MUNOPATHOLOGY/SEROI CREEN (TYPHOID ANTIGEN, I	LOGY gG AND IgM): SERUM
TYPHOID ANTIGEN by ICT (IMMUNOCHRO TYPHI DOT ANTIB(TYPHOID COMBO S N - SERUM MATOGRAPHY) ODY IgG MATOGRAPHY) ODY IgM	MUNOPATHOLOGY/SEROI CREEN (TYPHOID ANTIGEN, I NEGATIVE (-ve)	LOGY igG AND IgM): SERUM NEGATIVE (-ve)

KOS Diagnostic Lab (A Unit of KOS Healthcare)

Typhoid fever is a life threatening illness caused by the bacterium Salmonella typhus. The infection is acquired typically by ingestion. On reaching the gut, the bacilli attach themselves to the epithelial cells of the intestinal villi and penetrate the lamina and submucosa. They are then phagocytosed there by polymorphs and mesenteric lymph nodes, where they multiply and, via the thoracic duct, enter the blood stream. A transient bacteremia follows, during which the bacilli are seeded in the liver, gall bladder, spleen, bone marrow, lymph nodes, and kidneys, where further multiplication takes place. Towards the end of the incubation period, there occurs a massive bacteremia from these sites, heralding the onset of the clinical symptoms.

The diagnosis of typhoid consists of isolation of the bacilli and the demonstration of antibodies. The isolation of the bacilli is very time consuming and antibody detection is not very specific. Other tests include the Widal reaction. The advantage of this test is that it takes only 10-20 minutes and requires only a small amount of stool/serum/plasma to perform. It is the easiest and most specific method for detecting S. typhi infection.

RELATIVE SENSTIVITY OF TYPHOID ANTIGEN DETECTION: 98.7% RELATIVE SPECIFICITY OF TYPHOID ANTIGEN DETECTION: 97.4%

DETECTABLE IgM RESPONSE:

ONSET OF FEVER	PERCENT POSITIVE
4 - 6 DAYS	43.5
6 - 9 DAYS	92.9
> 9 DAYS	99.5

1. This is a solid phase, immunochromatographic ELISA assay that detects specific IgM and IgG Antibodies against the OUTER MEMBRAN PROTEIN(OMP) of the Salmonella species. IgM antibodies appear in the serum 2-3 days post infection and are indicative of a recent infection while the IgG antibodies appear later and are useful for presumptive diagnosis of Enteric fever if the patient presents more than a week after onset of symptoms.

2. This is a useful screening assay for the early detection of Enteric fever and has a high sensitivity. However the test has moderate specificity and false positive results may be obtained in the following situations:

Antibodies against Salmonella may cross react with other antibodies.

Unrelated infections may lead to production of specific Salmonella antibodies if the patient has previously been exposed to





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/BALA CANTT	
	AN AN AL NUCLEON DOAD AN		
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 15/Jan/2025 10:43AM
BARCODE NO.	: 01523896	COLLECTION DATE	: 15/Jan/2025 10:07AM
REFERRED BY	:	REGISTRATION DATE	: 15/Jan/2025 09:46 AM
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501150013
AGE/ GENDER	: 22 YRS/MALE	PATIENT ID	: 1724202
NAME	: Mr. PRAMOD SHARMA		
	MD (Pathology & M Chairman & Consul		D (Pathology) ht Pathologist
	Dr. Vinay Chor		n Chopra

Salmonella infection (ANAMNESTIC RESPONSE).

NOTE:-Rapid blood culture performed during f^t week of infection is highly recommended for confirmation of all IgM positive results. In case the patient has presented after the first week of infection, a thorough clinical correlation and confirmatory Widal test must be performed to establish the diagnosis.



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MBBS, MD (PATHOLOGY)

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	MD (P	/inay Chopra /athology & Microbiology) nan & Consultant Patholog		(Pathology)
NAME	: Mr. PRAMOD SHA	RMA		
AGE/ GENDER	: 22 YRS/MALE		PATIENT ID	: 1724202
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CLIENT CODE.	: KOS DIAGNOSTIC I	LAB	REPORTING DATE	: 15/Jan/2025 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSO	ON ROAD, AMBALA CANT	T	
Test Name		Value	Unit	Biological Reference interval
	DENGU	E FEVER COMBO SCRE	ENING - (NS1 ANTIGEN, Ig	(G AND IgM)
DENGUE NS1 ANTIGEN - SCREENING by ICT (IMMUNOCHROMATOGRAPHY)		NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY IgG - SCREENING by ICT (IMMUNOCHROMATOGRAPHY)		NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY Ig by ICT (IMMUNOCHROMAT	gM - SCREENING	NEGATIVE (-ve)		NEGATIVE (-ve)

INTERPRETATION:-

1. This is a solid phase immunochromatographic ELISA test for the qualitative detection of the specific IgG and IgM antibodies against the Dengue virus.

2. The IgM antibodies take a minimum of 5-10 days in primary infection and 4-5 days in secondary infections to test positive and hence are suitable for the diagnosis of dengue fever only when the fever is approximately one week old.

3. The IgG antibodies develop at least two weeks after exposure to primary infection and subsequently remain positive for the rest of the life. A positive result is incapable of differentiating a current infection from a past infection.

4. The Dengue NS-1 antigen test is most suited for early diagnosis (within the first week of exposure).





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

ISO 9001 : 2008 CERTI			EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS	
	Dr. Vinay Ch MD (Pathology &	Microbiology)		(Pathology)	
		sultant Pathologist	CEO & Consultant	: Pathologist	
NAME	: Mr. PRAMOD SHARMA	Th A 1717		. 170 4000	
AGE/ GENDER COLLECTED BY	: 22 YRS/MALE : SURJESH		ENT ID NO./LAB NO.	: 1724202 : 012501150013	
REFERRED BY	:		STRATION DATE	: 15/Jan/2025 09:46 AM	
BARCODE NO.	: 01523896		ECTION DATE	: 15/Jan/2025 10:07AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB		RTING DATE	: 15/Jan/2025 10:43AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	MALARIA - P.FAL	CIDADUM AND D	VIVAY ANTICEN	N DETECTION	
PLASMODIUM FAL	CIPARUM ANTIGEN	NEGATIVE (-ve		NEGATIVE (-ve)	
by ICT (IMMUNOCHROI PLASMODIUM VIVA		NEGATIVE (-ve	2)	NEGATIVE (-ve)	
by ICT (IMMUNOCHROI					
		4			
	AL.	Just	la.		
	am	-			
	DR.VINAY CHOPRA	DR.YUGAM CH	OPRA		
	CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICRO	CONSULTANT	PATHOLOGIST		

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AGE/ GENDER : 2 COLLECTED BY : S REFERRED BY : BARCODE NO. : 0 CLIENT CODE. : K		AD, AMBALA CANTT Value	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE Unit	: 1724202 : 012501150013 : 15/Jan/2025 09:46 : 15/Jan/2025 10:07 : 15/Jan/2025 12:56 Biological	AM
COLLECTED BY : S REFERRED BY : BARCODE NO. : O CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name	URJESH 1523896 OS DIAGNOSTIC LAB 349/1, NICHOLSON RO.	AD, AMBALA CANTT Value	REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 012501150013 : 15/Jan/2025 09:46 : 15/Jan/2025 10:07 : 15/Jan/2025 12:56	AM
REFERRED BY : BARCODE NO. : 0 CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name	1523896 OS DIAGNOSTIC LAB 349/1, NICHOLSON RO	AD, AMBALA CANTT Value	REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 15/Jan/2025 09:46 : 15/Jan/2025 10:07 : 15/Jan/2025 12:56	AM
BARCODE NO. : 0 CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name	OS DIAGNOSTIC LAB 349/1, NICHOLSON RO	AD, AMBALA CANTT Value	COLLECTION DATE REPORTING DATE	: 15/Jan/2025 10:07 : 15/Jan/2025 12:56	AM
CLIENT CODE. : K CLIENT ADDRESS : 6 Test Name VITAMIN D (25-HYDRO	OS DIAGNOSTIC LAB 349/1, NICHOLSON RO	AD, AMBALA CANTT Value	REPORTING DATE	: 15/Jan/2025 12:56	
CLIENT ADDRESS : 6 Fest Name VITAMIN D (25-HYDRO	349/1, NICHOLSON RO	AD, AMBALA CANTT			РМ
Test Name VITAMIN D (25-HYDRO	VI	Value	Unit	Biological	
VITAMIN D (25-HYDRO			Unit	Biological	
		VIT			Reference interval
			AMINS	9	
	VV V/PTANAINI DOV. CED		DROXY VITAMIN D		
		UM 26.5^L	ng/mL		IENCY: 20.0 - 30.0 NCY: 30.0 - 100.0
NTERPRETATION:	-				
DEFICIENT: INSUFFICIENT:		< 20			
PREFFERED RANGE:		30 - 100		ng/mL ng/mL	
tissue and tightly bound to 3. Vitamin D plays a prima phosphate reabsorption, 4. Severe deficiency may le DECREASED: 1. Lack of sunshine exposu 2. Inadequate intake, mala 3. Depressed Hepatic Vital 4. Secondary to advanced 5. Osteoporosis and Secor 6. Enzyme Inducing drugs: INCREASED: 1. Hypervitaminosis D is R severe hypercalcemia and CAUTION : Replacement the hypervitaminosis D	sents the main body response transport protein w a transport protein w ary role in the maintenar skeletal calcium deposit ead to failure to mineral absorption (celiac disease min D 25- hydroxylase an Liver disease adary Hyperparathroidist anti-epileptic drugs like care, and is seen only aft hyperphophatemia. merapy in deficient indivi	evoir and transport for hile in circulation. ice of calcium homeo ion, calcium mobiliza ize newly formed ost ce) ctivity n (Mild to Moderate phenytoin, phenobar er prolonged exposur duals must be monito	orm of Vitamin D and trans ostatis. It promotes calciu tion, mainly regulated by eoid in bone, resulting in	m absorption, renal calc parathvroid harmone (P rickets in children and o that increases Vitamin I of Vitamin D. When it c nt of Vitamin D levels in	ium absorption and TH). steomalacia in adults. D metabolism. occurs, it can result in order to prevent

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	Dr. Vinay Ch MD (Pathology & Chairman & Con			(Pathology)		
NAME	: Mr. PRAMOD SHARMA					
AGE/ GENDER	: 22 YRS/MALE		PATIENT ID	: 1724202		
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012501150013		
REFERRED BY			REGISTRATION DATE	: 15/Jan/2025 09:46 AM		
BARCODE NO.	: 01523896		COLLECTION DATE	: 15/Jan/2025 10:07AM		
CLIENT CODE.						
CLIENT ADDRESS	: KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD,	AMBALA CANTT	REPORTING DATE	: 15/Jan/2025 11:54AM		
Test Name		Value	Unit	Biological Reference interval		
		VITAMIN B1	12/COBALAMIN			
	ALAMIN: SERUM	465 SSAY)	pg/mL	190.0 - 890.0		
INTERPRETATION:- INCREASED VITAMIN B12			DECREASED VITAMIN	LB12		
1.Ingestion of Vitamin C		1.Pregna	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 6.Uremia			5.Haemodialysis 6. Multiple Myeloma			
1.Vitamin B12 (cobal 2.In humans, it is ob 3.The body uses its v excreted. 4.Vitamin B12 deficie ileal resection, small 5.Vitamin B12 deficie proprioception, poor	ency may be due to lack of IF sec intestinal diseases). ency frequently causes macrocyt	Diesis and normal s and requires int ally, reabsorbing retion by gastric r ic anemia, glossit avioral changes. T s are also elevated	neuronal function. rinsic factor (IF) for absorp vitamin B12 from the ileun nucosa (eg, gastrectomy, g is, peripheral neuropathy, These manifestations may o d in vitamin B12 deficiency	n and returning it to the liver; very little is astric atrophy) or intestinal malabsorption (e weakness, hyperreflexia, ataxia, loss of occur in any combination; many patients have		





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







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
AGE/ GENDER: 22 YRS/MACOLLECTED BY: SURJESHREFERRED BY:BARCODE NO.: 01523896CLIENT CODE.: KOS DIAGN]	PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1724202 : 012501150013 : 15/Jan/2025 09:46 AM : 15/Jan/2025 10:07AM : 15/Jan/2025 10:27AM
Test Name	Value	Unit	Biological Reference interval
	CLINICAL I	PATHOLOGY	
	URINE ROUTINE & MIC	ROSCOPIC EXAMINA	ATION
PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTR	10	ml	
COLOUR	PALE YEL	LOW	PALE YELLOW
by DIP STICK/REFLECTANCE SPECTR TRANSPARANCY	ophotometry CLEAR		CLEAR
by DIP STICK/REFLECTANCE SPECTR SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY 1.02		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY NEUTRAL		
PROTEIN by DIP STICK/REFLECTANCE SPECTR	OPHOTOMETRY		NEGATIVE (-ve)
SUGAR	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR pH	7		5.0 - 7.5
by DIP STICK/REFLECTANCE SPECTR BILIRUBIN	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR UROBILINOGEN	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECTR KETONE BODIES by DIP STICK/REFLECTANCE SPECTR	Negative		NEGATIVE (-ve)
BLOOD	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTR ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTR MICROSCOPIC EXAMINATION	NEGATIVE	2 (-ve)	NEGATIVE (-ve)
RED BLOOD CELLS (RBCs)	NEGATIVE	C (-ve) /HPF	0 - 3

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EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

Dr. Yugam Chopra

MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. PRAMOD SHARMA AGE/ GENDER : 22 YRS/MALE **PATIENT ID** :1724202 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012501150013 **REFERRED BY REGISTRATION DATE** : 15/Jan/2025 09:46 AM : **BARCODE NO.** :01523896 **COLLECTION DATE** : 15/Jan/2025 10:07AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 15/Jan/2025 10:27AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT PUS CELLS 1 - 3/HPF 0 - 5 by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT EPITHELIAL CELLS 0-2 /HPF ABSENT by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

CASTS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT NEGATIVE (-ve) NEGATIVE (-ve) BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS NEGATIVE (-ve) NEGATIVE (-ve) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT ABSENT ABSENT TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

** End Of Report ***



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