



	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P			Pathology)
AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	: Mr. RAM MURTI VERMA : 55 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMBALA (: 01528330 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBALA		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1817481 : 012504040015 : 04/Apr/2025 09:34 AM : 04/Apr/2025 10:11AM : 04/Apr/2025 10:29AM
Test Name	V	alue	Unit	Biological Reference interval
	SWASTHY	A WE	LLNESS PANEL: 1.	2
	COMPLE	TE BL	OOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		15.8	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (R	RBC) COUNT	5.61 ^H	Millions/c	emm 3.50 - 5.00
by HYDRO DYNAMIC FOC PACKED CELL VOLU	CUSING, ELECTRICAL IMPEDENCE	47.6	%	40.0 - 54.0
by CALCULATED BY AUT	OMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULA by CALCULATED BY AUT	AR VOLUME (MCV) FOMATED HEMATOLOGY ANALYZER	84.8	fL	80.0 - 100.0
	R HAEMOGLOBIN (MCH)	28.1	pg	27.0 - 34.0
MEAN CORPUSCULA	AR HEMOGLOBIN CONC. (MCHC)	33.1	g/dL	32.0 - 36.0
RED CELL DISTRIBU	OMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-CV)	14.4	%	11.00 - 16.00
-	OMATED HEMATOLOGY ANALYZER JTION WIDTH (RDW-SD)	46	fL	35.0 - 56.0
	OMATED HEMATOLOGY ANALYZER	15.12	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		10.12		13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND	EX	65.54	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 74.1 IRON DEFICIENCY ANEMIA:
				>= 74.1
WHITE BLOOD CEI				
TOTAL LEUCOCYTE by FLOW CYTOMETRY B	COUNT (TLC) y sf cube & microscopy	7320	/cmm	4000 - 11000
	LOOD CELLS (nRBCS) HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
•	LOOD CELLS (nRBCS) %	NIL	%	< 10 %
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ISU 9001 : 2008 CERTI	FIED LAB		EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
	Dr. Vinay Chop MD (Pathology & M Chairman & Consul	icrobiology)		(Pathology)
NAME	: Mr. RAM MURTI VERMA			
AGE/ GENDER	: 55 YRS/MALE		PATIENT ID	: 1817481
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by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL LE	EUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	68	%	50 - 70
LYMPHOCYTES		24	%	20 - 40
	Y BY SF CUBE & MICROSCOPY			
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES		6	%	2 - 12
	BY SF CUBE & MICROSCOPY			
BASOPHILS		0	%	0 - 1
•	Y BY SF CUBE & MICROSCOPY			
	OCYTES (WBC) COUNT			
ABSOLUTE NEUTR		4978	/cmm	2000 - 7500
ABSOLUTE LYMPH	Y BY SF CUBE & MICROSCOPY	1757	/cmm	800 - 4900
	Y BY SF CUBE & MICROSCOPY	1757	/clilli	300 - 4900
ABSOLUTE EOSING	OPHIL COUNT	146	/cmm	40 - 440
	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE MONO	CYTE COUNT ' BY SF CUBE & MICROSCOPY	439	/cmm	80 - 880
ABSOLUTE BASOP		0	/cmm	0 - 110
	BY SF CUBE & MICROSCOPY	ů –	,	0 110
PLATELETS AND (OTHER PLATELET PREDICTIV	E MARKER	<u>85.</u>	
PLATELET COUNT	(PLT)	323000) /cmm	150000 - 450000
	OCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (P	CT) OCUSING, ELECTRICAL IMPEDENCE	0.31	%	0.10 - 0.36
MEAN PLATELET		10	fL	6.50 - 12.0
	OCUSING, ELECTRICAL IMPEDENCE	10		0.50 12.0
PLATELET LARGE	CELL COUNT (P-LCC)	77000	/cmm	30000 - 90000
	OCUSING, ELECTRICAL IMPEDENCE			
	CELL RATIO (P-LCR) OCUSING, ELECTRICAL IMPEDENCE	23.7	%	11.0 - 45.0
	BUTION WIDTH (PDW)	16.2	%	15.0 - 17.0
- 2.112221 2101010		10.2	/0	1010 1110



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Test Name	Value	Unit	Biological Reference interval

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by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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	MD (Vinay Chopra Pathology & Microbiology man & Consultant Pathol	/) ()	am Chopra 1D (Pathology) ant Pathologist
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LIENT ADDRESS	: 6349/1, NICHOLS	ON ROAD, AMBALA CAN	NTT	
Test Name	_	Value	Unit	Biological Reference interval
	I	RYTHROCYTE SE	EDIMENTATION RAT	TE (ESR)
mmune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus eryth	does not tell the hea acted by other conditi be used to monitor d ematosus	Ith practitioner exactly work of the second se	here the inflammation is in n. For this reason, the ESR is nse to therapy in both of th	hation associated with infection, cancer and auto- the body or what is causing it. It typically used in conjunction with other test such e above diseases as well as some others, such as
ONDITION WITH LO low ESR can be see polycythaemia), sig s sickle cells in sick (OTE: . ESR and C - reactiv . Generally, ESR doc . CRP is not affected . If the ESR is eleval . Women tend to ha . Drugs such as dex	n with conditions than hificantly high white h e cell anaemia) also e protein (C-RP) are b es not change as rapic by as many other fact ed, it is typically a rest we a higher ESR, and	lood cell count (leucocy ower the ESR. oth markers of inflamma ly as does CRP, either at tors as is ESR, making it a ult of two types of prote menstruation and pregna I contraceptives, penicill	tosis), and some protein ab ition. the start of inflammation o better marker of inflammat ins, globulins or fibrinogen. incy can cause temporary ele	tion.

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugarı MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMIST	TRY/BIOCHEMIS	STRY
		GLUCOSE	FASTING (F)	
GLUCOSE FASTIN by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-POD)	94.19	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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Test Name		Value	Unit	Biological Reference interval
		LIPID PRO	OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		160.88	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: 5 by GLYCEROL PHOSP	SERUM PHATE OXIDASE (ENZYMATIC)	68.2	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC	DL (DIRECT): SERUM	55.83	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		91.41	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		105.05	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER by CALCULATED, SPE		13.64	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SE		389.96	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	2.88	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
	lt an		hopro	

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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		1.64	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	HDL RATIO: SERUM	1.22 ^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.

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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Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SF	: SERUM PECTROPHOTOMETRY	0.92	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	T (CONJUGATED): SERUM	0.26	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CT (UNCONJUGATED): SERUM	0.66	mg/dL	0.10 - 1.00
SGOT/AST: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	22.15	U/L	7.00 - 45.00
SGPT/ALT: SERUN by IFCC, WITHOUT PY	I RIDOXAL PHOSPHATE	23.54	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.94	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM yl phosphatase by amino methyl	84.83	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM	1 38.45	U/L	0.00 - 55.0
TOTAL PROTEINS by BIURET, SPECTRO		7.24	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.53	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.71	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE		1.67	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.

Dr. Vinay Chopra

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
k	



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Test Name	Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Inc	reased)
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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	KIDNE	Y FUNCTIO	ON TEST (COMPLETI	E)
UREA: SERUM		18.17	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)	10117	ing of	
CREATININE: SER	-	1.24	mg/dL	0.40 - 1.40
•	ROGEN (BUN): SERUM	8.49	mg/dL	7.0 - 25.0
by CALCULATED, SPE		0.15	ing all	1.0 25.0
	ROGEN (BUN)/CREATININE	6.85 ^L	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ		14.65	RATIO	
by CALCULATED, SPE				2 (0 5 50
URIC ACID: SERUN by URICASE - OXIDAS		5.56	mg/dL	3.60 - 7.70
CALCIUM: SERUM		8.64	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			-	
PHOSPHOROUS: SI	ERUM DATE, SPECTROPHOTOMETRY	3.26	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		142.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERU		4.33	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUN		106.88	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)			
ESTIMATED GLO	MERULAR FILTERATION RAT	<u>'E</u>		
	MERULAR FILTERATION RATE	68.7		
(eGFR): SERUM by CALCULATED				
INTERPRETATION:				
To differentiate betw	een 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.



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NAME	: Mr. RAI	M MURTI VERMA						
AGE/ GENDER	: 55 YRS/	MALE	Р	ATIENT ID		: 1817481		
COLLECTED BY	: SURJESH	I	R	EG. NO./LAB NO.		:012504040015		
REFERRED BY		L PHOENIX CLUB (AMBALA C		EGISTRATION D		: 04/Apr/2025 09:		
BARCODE NO.	: 0152833			OLLECTION DAT		: 04/Apr/2025 10:		
						1		
CLIENT CODE.		GNOSTIC LAB		EPORTING DATH	L	:04/Apr/2025 11:	50AM	
CLIENT ADDRESS	:6349/1,	NICHOLSON ROAD, AMBALA	CANTT					
Test Name		Va	lue	Un	it	Biologica	al Reference interv	val
 9. Certain drugs (e.g. 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 the 	tetracycline 20:1) WITH E a (BUN rises superimpos 10:1) WITH I rosis. nd starvatio e. creased ure (urea rather monemias of inappropi 10:1) WITH I apy (accelera eleases mu who develo): osis (acetoac creased BU rapy (interfe	LEVATED CREATININE LEVELS: disproportionately more than sed on renal disease. DECREASED BUN : n. ea synthesis. than creatinine diffuses out c (urea is virtually absent in bloc ate antidiuretic harmone) due NCREASED CREATININE: ates conversion of creatine to o scle creatinine). p renal failure. etate causes false increase in N/creatinine ratio). pres with creatinine measurem	of extracel od). to tubular creatinine creatinine	lular fluid). - secretion of urea).			nal ratio when dehyd	Iration
ESTIMATED GLOMERI	JLAR FILTER	DESCRIPTION	GFR (ml	/min/1.73m2)	ASSO	CIATED FINDINGS	7	
G1		Normal kidney function	(IIIE	>90		lo proteinuria	1	
G2		Kidney damage with		>90		ence of Protein,	7	

UKD JTAGE	DESORITION		ASSOCIATED TINDINOS
G1	Normal kidney function	>90	No proteinuria
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	



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

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









	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. RAM MURTI VERMA		
AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1817481
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012504040015
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 04/Apr/2025 09:34 AM
BARCODE NO.	: 01528330	COLLECTION DATE	:04/Apr/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:04/Apr/2025 11:50AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA 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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MBBS, MD (PATHOLOGY)

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		Chopra gy & Microbiology) Consultant Pathologis		(Pathology)
NAME	: Mr. RAM MURTI VERM	A		
AGE/ GENDER	: 55 YRS/MALE		PATIENT ID	: 1817481
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012504040015
REFERRED BY	: CENTRAL PHOENIX CLU	B (AMBALA CANTT)	REGISTRATION DATE	: 04/Apr/2025 09:34 AM
BARCODE NO.	: 01528330		COLLECTION DATE	: 04/Apr/2025 10:11AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 04/Apr/2025 11:47AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RC	AD, AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
		THYROID FUNC	CTION TEST: TOTAL	
TRIIODOTHYRON by CMIA (CHEMILUMIN	INE (T3): SERUM	0.885 NOASSAY)	ng/mL	0.35 - 1.93
THYROXINE (T4): by CMIA (CHEMILUMIN	SERUM IESCENT MICROPARTICLE IMMU	10.6 NOASSAY)	µgm/dL	4.87 - 12.60
	ATING HORMONE (TSH)		µIU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the triiodothyronine (T3).Fai	measured serum TSH concentratio	<i>ns</i> . TSH stimulates the pr	oduction and secretion of the m	<i>m. The variation is of the order of 50%.Hence time of th</i> letabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or
CLINICAL CONDITION	T3		T4	TSH

CLINICAL CONDITION	Т3	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	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)	
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3	
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00	
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40	





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	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mr. RAM MURTI VERMA		
AGE/ GENDER	: 55 YRS/MALE	PATIENT ID	: 1817481
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Test Name	t Name		Value	Unit	t	Biological Reference interval	
6 - 12 Months	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	0.35 - 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		
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PREC	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



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Dr. Yugam Chopra MD (Pathology)

CEO & Consultant Pathologist

: Mr. RAM MURTI VERMA AGE/ GENDER : 55 YRS/MALE **PATIENT ID** :1817481 **COLLECTED BY** :012504040015 : SURJESH REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :04/Apr/2025 09:34 AM **BARCODE NO.** :01528330 **COLLECTION DATE** :04/Apr/2025 10:11AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :04/Apr/2025 10:28AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name

Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

CLINICAL PATHOLOGY

URINE ROUTINE & MICROSCOPIC EXAMINATION

PHYSICAL EXAMINATION			
QUANTITY RECIEVED by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	10	ml	
COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
CHEMICAL EXAMINATION			
REACTION by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEUTRAL		
PROTEIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
SUGAR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
pH by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	7		5.0 - 7.5
BILIRUBIN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)
UROBILINOGEN by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Normal	EU/dL	0.2 - 1.0
KETONE BODIES by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)

MICROSCOPIC EXAMINATION



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Biological Reference interval

NAME





EXCELLENCE IN MEALTHCARE & DIAGNOSTICS

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value		Unit	Biological Reference interval
RED BLOOD CELL by MICROSCOPY ON (S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATI	VE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	3-4		/HPF	0 - 5
EPITHELIAL CELL by MICROSCOPY ON (S CENTRIFUGED URINARY SEDIMENT	1-3		/HPF	ABSENT
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATI	VE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATI	VE (-ve)		NEGATIVE (-ve)
BACTERIA		NEGATI	VE (-ve)		NEGATIVE (-ve)

OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT

NEGATIVE (-ve)





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NEGATIVE (-ve)

ABSENT