

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	<b>Dr. Vinay Chopra</b> MD (Pathology & Micr Chairman & Consultar	obiology)		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: <b>Mr. GOURAV VERMA</b> : 42 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMBAI : 01525079 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AMBA		COLLECTION DATE REPORTING DATE	: 1748476 <b>: 012502070016</b> : 07/Feb/2025 10:26 AM : 07/Feb/2025 10:34AM : 07/Feb/2025 10:56AM
Test Name		Value	Unit	<b>Biological Reference interval</b>
RED BLOOD CELLS			LLNESS PANEL: 1.2 OOD COUNT (CBC)	2
HAEMOGLOBIN (H		17.8 <sup>H</sup>	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (		5.89 <sup>H</sup>	Millions	′cmm 3.50 - 5.00
PACKED CELL VOLU		54.4 <sup>H</sup>	%	40.0 - 54.0
MEAN CORPUSCUL	utomated hematology analyzer AR VOLUME (MCV)	92.4	fL	80.0 - 100.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HAEMOGLOBIN (MCH)	30.3	pg	27.0 - 34.0
MEAN CORPUSCUL	UTOMATED HEMATOLOGY ANALYZER AR HEMOGLOBIN CONC. (MCHC)	32.8	g/dL	32.0 - 36.0
RED CELL DISTRIB	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-CV)	14.2	%	11.00 - 16.00
RED CELL DISTRIB	UTOMATED HEMATOLOGY ANALYZER UTION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	49.6	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED		15.69	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INE by CALCULATED	DEX	22.33	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CE	LLS (WBCS)			
	COUNT (TIC)	7560	/cmm	4000 - 11000
FOTAL LEUCOCYTE	Y BY SF CUBE & MICROSCOPY			
FOTAL LEUCOCYTE by flow cytometry NUCLEATED RED B		NIL		0.00 - 20.00





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. GOURAV VERMA **AGE/ GENDER** : 42 YRS/MALE **PATIENT ID** :1748476 **COLLECTED BY** : SURJESH :012502070016 REG. NO./LAB NO. **REFERRED BY** : CENTRAL PHOENIX CLUB (AMBALA CANTT) **REGISTRATION DATE** :07/Feb/2025 10:26 AM **BARCODE NO.** :01525079 **COLLECTION DATE** :07/Feb/2025 10:34AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :07/Feb/2025 10:56AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 58 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 34 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 4 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 4 % 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 4385 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2570 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 302 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 302 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 221000 /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) 12 fL. 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 89000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 40.4% 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) % 16.615.0 - 17.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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	MD (Pathology & M	Dr. Vinay ChopraDr. Yugam ChopraMD (Pathology & Microbiology)MD (Pathology)Chairman & Consultant PathologistCEO & Consultant Pathologist		Pathology)
IAME	: Mr. GOURAV VERMA			
AGE/ GENDER	: 42 YRS/MALE	I	PATIENT ID	: 1748476
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BARCODE NO.	:01525079	(	COLLECTION DATE	:07/Feb/2025 10:34AM
LIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	:07/Feb/2025 11:53AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
For at Name of		Value	TL-94	
Fest Name		Value	Unit	Biological Reference interval
	Брутиро	CVTE CEDIM	IENTATION RATE (H	( <b>D</b> )
mmune disease, but 2. An ESR can be affe- is C-reactive protein 3. This test may also i ystemic lupus erythe CONDITION WITH LOV A low ESR can be see polycythaemia), sign is sickle cells in sickl IOTE: . ESR and C - reactive 2. Generally, ESR doe 8. CRP is not affected 4. If the ESR is elevate 5. Women tend to ha	does not tell the health practitione cted by other conditions besides in pe used to monitor disease activity ematosus <b>V ESR</b> n with conditions that inhibit the n- ificantly high white blood cell cour e cell anaemia) also lower the ESR e protein (C-RP) are both markers o s not change as rapidly as does CRF, by as many other factors as is ESR, i ed, it is typically a result of two typ ye a higher ESR, and menstruation a	r exactly where flammation. For and response to ormal sediment. it (leucocytosis) f inflammation. P, either at the s making it a betto es of proteins, g and pregnancy c	the inflammation is in the this reason, the ESR is typ o therapy in both of the ab ation of red blood cells, su , and some protein abnor tart of inflammation or as <b>er marker of inflammation</b> lobulins or fibrinogen. an cause temporary elevat	icallý used in conjunction with other test such vove diseases as well as some others, such as ch as a high red blood cell count malities. Some changes in red cell shape (such it resolves.





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	:07/Feb/202511:54AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	<b>Biological Reference interval</b>
	CLINI	CAL CHEMISTR	Y/BIOCHEMIST	'nY
		GLUCOSE FA	STING (F)	
GLUCOSE FASTING	(F): PLASMA E - PEROXIDASE (GOD-POD)	105.81 <sup>H</sup>	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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.



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CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 07/Feb/2025 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	), AMBALA CANTI		
Test Name		Value	Unit	Biological Reference interval
		I IDIN DD	OFILE : BASIC	
CHOLESTEROL TO	TAL CEDIM			OPTIMAL: < 200.0
by CHOLESTEROL 10		225.91 <sup>H</sup>	mg/dL	BORDERLINE HIGH: 200.0 -
				239.0
				HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S	SERUM	244.76 <sup>H</sup>	mg/dL	OPTIMAL: < 150.0
by GLYCEROL PHOSE	PHATE OXIDASE (ENZYMATIC)	211.70	0	BORDERLINE HIGH: 150.0 -
				199.0 HIGH: 200.0 - 499.0
				VERY HIGH: > OR = 500.0
	L (DIRECT): SERUM	41.63	mg/dL	LOW HDL: < 30.0
by SELECTIVE INHIBIT	TION			BORDERLINE HIGH HDL: 30.0 60.0
				HIGH HDL: $> OR = 60.0$
LDL CHOLESTERO		135.33 <sup>H</sup>	mg/dL	OPTIMAL: < 100.0
by CALCULATED, SPE	ECTROPHOTOMETRY			ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 -
				159.0
				HIGH: 160.0 - 189.0
NON HDL CHOLES'	TEROL SERIM	184.28 <sup>H</sup>	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0
	ECTROPHOTOMETRY	184.28	ilig/ uL	ABOVE OPTIMAL: 130.0 - 159.0
				BORDERLINE HIGH: 160.0 -
				189.0 HIGH: 190.0 - 219.0
				VERY HIGH: > OR = 220.0
VLDL CHOLESTER	OL: SERUM ectrophotometry	<b>48.95<sup>H</sup></b>	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEP	RUM	696.58	mg/dL	350.00 - 700.00
-	ECTROPHOTOMETRY	U	Ū	
CHOLESTEROL/HI by CALCULATED, SPE	DL KATIO: SEKUM ECTROPHOTOMETRY	5.43 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0
				MODERATE RISK: 7.10 - 11.0
				HIGH RISK: > 11.0
			Autor	
2002/00/00/07	Clin .		Moura	

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Test Name	Value	Unit	<b>Biological Reference interval</b>
LDL/HDL RATIO: S by CALCULATED, SPE	0.20	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	0.00	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	<b>Biological Reference interval</b>
BILIRUBIN DIRECT	: SERUM pectrophotometry [ (CONJUGATED): SERUM spectrophotometry	1.01 0.22	<b>N TEST (COMPLETE)</b> mg/dL mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40
BILIRUBIN INDIRE by CALCULATED, SPE	CCT (UNCONJUGATED): SERUM	0.79	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PY	[ /RIDOXAL PHOSPHATE	38.4	U/L	7.00 - 45.00
SGPT/ALT: SERUM	[ /RIDOXAL PHOSPHATE	48	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM	0.8	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	100.1	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM PHTOMETRY	61.69 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO	SERUM	7.54	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.28	gm/dL	3.50 - 5.50
GLOBULIN: SERUN	1	3.26	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.31	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

## 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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	Dr. Vinay Chopra	Dr. Yugan	

### 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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Test Name		Value	Unit	<b>Biological Reference interval</b>
	KIDNI	EY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM	IATE DEHYDROGENASE (GLDH)	17.39	mg/dL	10.00 - 50.00
CREATININE: SERU		1.12	mg/dL	0.40 - 1.40
by ENZYMATIC, SPEC		0.10		7.0 . 95.0
by CALCULATED, SPE	ROGEN (BUN): SERUM	8.13	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	7.26 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY			
UREA/CREATININ	E RATIO: SERUM	15.53	RATIO	
URIC ACID: SERUM	1	5.77	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SE PEROXIDASE	9.76	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE	ECTROPHOTOMETRY	3.70	IIIg/ uL	8.30 - 10.00
PHOSPHOROUS: SE	ERUM DATE, SPECTROPHOTOMETRY	2.79	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SI ECHNOLHOTOMETRI			
SODIUM: SERUM by ISE (ION SELECTIV		139.6	mmol/L	135.0 - 150.0
POTASSIUM: SERU by ISE (ION SELECTIV	M	3.82	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	1	104.7	mmol/L	90.0 - 110.0
	IERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED INTERPRETATION:	ERULAR FILTERATION RATE	84.1		

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.

3. GI haemorrhage.



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TTEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	<b>Dr. Vinay Chopra</b> MD (Pathology & Microt Chairman & Consultant I	crobiology) MD (Pathology)	
NAME	: Mr. GOURAV VERMA		
AGE/ GENDER	: 42 YRS/MALE	PATIENT ID	: 1748476
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO.</b>	: 012502070016
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA		
BARCODE NO.	: 01525079	COLLECTION DATE	: 07/Feb/2025 10:34AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 07/Feb/2025 12:04PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	T	Value Unit	Biological Reference interv
7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1	<ul> <li>xia, high fever).</li> <li>(e.g. ureter colostomy)</li> <li>ass (subnormal creatinine production)</li> <li>tetracycline, glucocorticoids)</li> <li>0:1) WITH ELEVATED CREATININE LEVELS</li> <li>(BUN rises disproportionately more that superimposed on renal disease.</li> <li>0:1) WITH DECREASED BUN :</li> </ul>		opathy).
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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)









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: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 07/Feb/2025 12:04PM
: 01525079	COLLECTION DATE	:07/Feb/202510:34AM
: CENTRAL PHOENIX CLUB (AMBALA CA	ANTT) <b>REGISTRATION DATE</b>	: 07/Feb/2025 10:26 AM
: SURJESH	<b>REG. NO./LAB NO.</b>	: 012502070016
: 42 YRS/MALE	PATIENT ID	: 1748476
: Mr. GOURAV VERMA		
MD (Pathology & Microbiol	ogy) MD	(Pathology)
	Chairman & Consultant Pat : Mr. GOURAV VERMA : 42 YRS/MALE : SURJESH : CENTRAL PHOENIX CLUB (AMBALA CA : 01525079 : KOS DIAGNOSTIC LAB	MD (Pathology & Microbiology) Chairman & Consultant Pathologist CEO & Consultant : Mr. GOURAV VERMA : 42 YRS/MALE PATIENT ID : SURJESH REG. NO./LAB NO. : CENTRAL PHOENIX CLUB (AMBALA CANTT) : 01525079 COLLECTION DATE

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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Test Name	Valu		Biological Reference interval
		DOCRINOLOGY UNCTION TEST: TOTAL	
TRIIODOTHYRONI by CMIA (CHEMILUMIN			0.35 - 1.93
THYROXINE (T4):		β1 μgm/dL	4.87 - 12.60
	ATING HORMONE (TSH): SERUM 2.37 iescent microparticle immunoassay) rasensitive	μIU/mL	0.35 - 5.50
INTERPRETATION:		a mand at a minimum botwoon 6 10 n	m. The variation is of the order of 50%.Hence time of t

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.

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	





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

#### **INCREASED TSH LEVELS:**

1. Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2. Hypothyroid patients receiving insufficient thyroid replacement therapy.

3. Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

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

DECREASED TSH LEVELS:

1. Toxic multi-nodular goiter & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

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

8.Pregnancy: 1st and 2nd Trimester





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Test Name		Value	Unit	<b>Biological Reference interval</b>
		CUNICAT	PATHOLOGY	
	LIDINE DO		CROSCOPIC EXAMIN	ATION
PHYSICAL EXAMIN			CROSCOPIC EXAMIN	AIION
QUANTITY RECIEV		10	ml	
,	TANCE SPECTROPHOTOMETRY	DALEXE		
COLOUR by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	PALE YE	LLOW	PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.01		1.002 - 1.030
<u>CHEMICAL EXAMI</u> REACTION	INATION	ACIDIC		
	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Trace		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6.5		5.0 - 7.5
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY			
KETONE BODIES by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
BLOOD	TANCE SPECTROPHOTOMETRY	TRACE		NEGATIVE (-ve)
ASCORBIC ACID	TAINCE SPECTRUPHUTUMETRY	NEGATIV	/E (-ve)	NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			× /
MICROSCOPIC EXA RED BLOOD CELLS		2-4	/HPF	0 - 3
VED DEOOD CEFF9	(1003)	6-4	/ 111 F	0-0

677 2.703



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NANGE



EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

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

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Test Name		Value	Unit	<b>Biological Reference interval</b>	
by MICROSCOPY ON	CENTRIFUGED URINARY SEDIMENT				
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	1-3	/HPF	0 - 5	
EPITHELIAL CELL		0-2	/HPF	ABSENT	
CRYSTALS by MICROSCOPY ON (	CENTRIFUGED URINARY SEDIMENT	NEGATIV	/E (-ve)	NEGATIVE (-ve)	

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

Dr. Vinay Chopra

COUDAN VEDMA

MD (Pathology & Microbiology) Chairman & Consultant Pathologist

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



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