

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





	Dr. Vinay Chopra MD (Pathology & Microbiology Chairman & Consultant Pathol	<i>(</i> )	r. Yugam C MD (Pa Consultant Pat	thology)	
NAME : Mr. AMIT					
AGE/ GENDER : 42 YRS/MA	LE	PATIENT ID	:	: 1539117	
COLLECTED BY :		<b>REG. NO./LAB</b>	NO. :	: 012407050038	
REFERRED BY :		<b>REGISTRATIO</b>	N DATE :	: 05/Jul/2024 11:24 AM	
<b>BARCODE NO.</b> : 01512577		COLLECTION D	ATE :	: 05/Jul/2024 11:26AM	
<b>CLIENT CODE.</b> : KOS DIAGN	OSTIC LAB	<b>REPORTING D</b>	ATE :	: 05/Jul/2024 04:59PM	
CLIENT ADDRESS : 6349/1, NI	CHOLSON ROAD, AMBALA CAN	JTT			
Test Name	Value		Unit	Biological Reference interval	
	SWASTHYA	WELLNESS PAN	IFI · 1 2		
		BLOOD COUNT (			
RED BLOOD CELLS (RBCS) COUNT		BLOOD COONT (	(CDC)		
HAEMOGLOBIN (HB)	13		gm/dL	12.0 - 17.0	
by CALORIMETRIC	15		gri/uL	12.0 - 17.0	
RED BLOOD CELL (RBC) COUNT	4.58		Millions/cmn	n 3.50 - 5.00	
by HYDRO DYNAMIC FOCUSING, ELEC PACKED CELL VOLUME (PCV)	TRICAL IMPEDENCE 39.7 <sup>L</sup>		%	40.0 - 54.0	
by CALCULATED BY AUTOMATED HE	MATOLOGY ANALYZER				
MEAN CORPUSCULAR VOLUME (M by CALCULATED BY AUTOMATED HEM			fL	80.0 - 100.0	
MEAN CORPUSCULAR HAEMOGLO	BIN (MCH) 28.3		pg	27.0 - 34.0	
by CALCULATED BY AUTOMATED HEN MEAN CORPUSCULAR HEMOGLOB			g/dL	32.0 - 36.0	
by CALCULATED BY AUTOMATED HEA	. ,		y/uL	32.0 - 30.0	
RED CELL DISTRIBUTION WIDTH (R by CALCULATED BY AUTOMATED HEN			%	11.00 - 16.00	
RED CELL DISTRIBUTION WIDTH (F by CALCULATED BY AUTOMATED HEN			fL	35.0 - 56.0	
MENTZERS INDEX by CALCULATED	18.91		RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0	
GREEN & KING INDEX	28.84		RATIO	BETA THALASSEMIA TRAIT: < =	
by CALCULATED				65.0 IRON DEFICIENCY ANEMIA: > 65.0	۰ ۱
WHITE BLOOD CELLS (WBCS)				IKON DEI IGIENGT ANEIVIIA. > 03.0	,
TOTAL LEUCOCYTE COUNT (TLC)	3720 <sup>L</sup>		/cmm	4000 - 11000	
by FLOW CYTOMETRY BY SF CUBE &	MICROSCOPY				
NUCLEATED RED BLOOD CELLS (nR by CALCULATED BY AUTOMATED HEN MICROSCOPY				0.00 - 20.00	
MICROSCOPY NUCLEATED RED BLOOD CELLS (nR by CALCULATED BY AUTOMATED HEN MICROSCOPY	,		%	< 10 %	
DIFFERENTIAL LEUCOCYTE COUNT	(DLC)				



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	Chairman & Consi	ultant Pathologist	CEO & Consultant	Pathologist
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				/
Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS		48 <sup>L</sup>	%	50 - 70
by FLOW CYTOMETRY LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	40	%	20 - 40
	Y BY SF CUBE & MICROSCOPY	40	70	20-40
EOSINOPHILS		5	%	1 - 6
	Y BY SF CUBE & MICROSCOPY	7	0/	2 12
MONOCYTES	Y BY SF CUBE & MICROSCOPY	7	%	2 - 12
BASOPHILS		0	%	0 - 1
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCY	TES (WBC) COUNT			
ABSOLUTE NEUTROF	PHIL COUNT y by sf cube & microscopy	1786 <sup>L</sup>	/cmm	2000 - 7500
ABSOLUTE LYMPHO		1488	/cmm	800 - 4900
	BY SF CUBE & MICROSCOPY			
ABSOLUTE EOSINOP	HIL COUNT ( by sf cube & microscopy	186	/cmm	40 - 440
ABSOLUTE MONOCY		260	/cmm	80 - 880
by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPHIL	L COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
•	RE GRANULOCYTE COUNT	0	/cmm	0.0 - 999.0
	BY SF CUBE & MICROSCOPY	0	/ drift	0.0 ///.0
PLATELETS AND OTH	IER PLATELET PREDICTIVE MARK	KERS.		
PLATELET COUNT (PL	•	68000 <sup>L</sup>	/cmm	150000 - 450000
PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.09 <sup>L</sup>	%	0.10 - 0.36
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
MEAN PLATELET VOI		14 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CEL	F <b>ocusing, electrical impedence</b> .L COUNT (P-LCC)	39000	/cmm	30000 - 90000
	OCUSING, ELECTRICAL IMPEDENCE		,	
PLATELET LARGE CEL		57.8 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBUT	Focusing, electrical impedence Fion width (PDW)	15.8	%	15.0 - 17.0
	OCUSING, ELECTRICAL IMPEDENCE	10.0	70	10.0 17.0





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Test Name		Value Unit	Biological Reference interval

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED.



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NAME	: Mr. AMIT					
AGE/ GENDER	: 42 YRS/MALE		PATIENT	ID	: 1539117	
COLLECTED BY	:		REG. NO./	LAB NO.	:012407050038	
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CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA	CANTT			
Test Name	_	Va	lue	Unit	Biological Ref	erence interval
		ERYTHROCYT	E SEDIMENTATI	ON RATE (ES	R)	
ERYTHROCYTE SEDIN by Modified Wester	MENTATION RATE (E	,		mm/1st h	ir 0 - 20	
<ol> <li>An ESR can be affe as C-reactive protein</li> <li>This test may also systemic lupus erythe CONDITION WITH LOY</li> <li>A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE:</li> <li>ESR and C - reactiv</li> <li>Generally, ESR doe</li> <li>CRP is not affected</li> <li>If the ESR is elevat</li> <li>Women tend to ha</li> </ol>	cted by other condit be used to monitor of ematosus <b>N ESR</b> in with conditions that ificantly high white e cell anaemia) also e protein (C-RP) are I s not change as rapion by as many other fac ed, it is typically a re ve a higher ESR, and ran, methyldopa, or	ions besides inflamma lisease activity and re at inhibit the normal s blood cell count (leuc lower the ESR. both markers of inflam cly as does CRP, eithe ctors as is ESR, making sult of two types of p menstruation and pre al contraceptives, per	ation. For this rease esponse to therapy sedimentation of re cocytosis) , and son mmation. er at the start of inf <b>g it a better marker</b> roteins, globulins c egnancy can cause i	on, the ESR is typ in both of the a ed blood cells, so he protein abno lammation or as <b>of inflammatior</b> r fibrinogen. emporary eleva	1.	with other test such ome others, such as I count i red cell shape (such

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CLIENT CODE. CLIENT ADDRESS Test Name			DRTING DATE	: 05/Jul/2024 12:14PM Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit	Biological Reference interval
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT	Unit /BIOCHEMISTR	Biological Reference interval

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 PROFILE :	BASIC	
CHOLESTEROL TOTAL		191.55		OPTIMAL: < 200.0
by CHOLESTEROL TOTAL		191.55	mg/dL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	74.98	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		36.73	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		153.82 <sup>H</sup>	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEI by calculated, spe		154.82 <sup>H</sup>	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 CHOLESTEROL:		15	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Л	472.08	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	5.22 <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
LDL/HDL RATIO: SER by CALCULATED, SPE		4.19 <sup>H</sup>	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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TRIGLYCERIDES/HD		2.04 <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.

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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Unit

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Value

Dr. Vinay Chopra

MD (Pathology & Microbiology)

LIVE		EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by DIAZOTIZATION, SPECTROPHOTOMETRY	1.37 <sup>H</sup>	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.69 <sup>H</sup>	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.68	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	42.86	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	29.06	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.47	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by para nitrophenyl phosphatase by amino methyl propanol	155 <sup>H</sup>	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	22	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.41	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.52	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.89	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.22	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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**Biological Reference interval** 

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Test Name





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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).

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



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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. AMIT **AGE/ GENDER** : 42 YRS/MALE **PATIENT ID** :1539117 **COLLECTED BY** :012407050038 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :05/Jul/2024 11:24 AM **BARCODE NO.** :01512577 **COLLECTION DATE** :05/Jul/2024 11:26AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Jul/2024 12:41PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit **Biological Reference interval** Test Name **KIDNEY FUNCTION TEST (COMPLETE) UREA: SERUM** 11.45 mg/dL 10.00 - 50.00 by UREASE - GLUTAMATE DEHYDROGENASE (GLDH) **CREATININE: SERUM** 0.63 mg/dL 0.40 - 1.40 by ENZYMATIC, SPECTROPHOTOMETERY **BLOOD UREA NITROGEN (BUN): SERUM** 5.35<sup>L</sup> mg/dL 7.0 - 25.0 by CALCULATED, SPECTROPHOTOMETRY **BLOOD UREA NITROGEN (BUN)/CREATININE** RATIO 10.0 - 20.0 8.49<sup>L</sup> **RATIO: SERUM** by CALCULATED, SPECTROPHOTOMETRY **UREA/CREATININE RATIO: SERUM** 18.17 RATIO by CALCULATED, SPECTROPHOTOMETRY 3.60 - 7.70 URIC ACID: SERUM 4 mg/dL by URICASE - OXIDASE PEROXIDASE CALCIUM: SERUM 8.71 mg/dL 8.50 - 10.60 by ARSENAZO III, SPECTROPHOTOMETRY 2.30 - 4.70 PHOSPHOROUS: SERUM 2.63 mg/dL by PHOSPHOMOLYBDATE, SPECTROPHOTOMETRY ELECTROLYTES SODIUM: SERUM 141.8 mmol/L 135.0 - 150.0 by ISE (ION SELECTIVE ELECTRODE) 3.83 mmol/L 3.50 - 5.00 POTASSIUM: SERUM by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM 106.35 90.0 - 110.0 mmol/l by ISE (ION SELECTIVE ELECTRODE) ESTIMATED GLOMERULAR FILTERATION RATE ESTIMATED GLOMERULAR FILTERATION RATE 121.8 (eGFR): SERUM by CALCULATED NOTE 2 **RESULT RECHECKED TWICE** ADVICE KINDLY CORRELATE CLINICALLY **INTERPRETATION:** To differentiate between pre- and post renal azotemia.

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



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FEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	MD (Patholog	1D (Pathology & Microbiology)		n Chopra 9 (Pathology) 1 Pathologist
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Test Name		Value	Unit	Biological Reference interval
8. Reduced muscle m 9. Certain drugs (e.g.	n (e.g. ureter colostomy) nass (subnormal creatinine pr tetracycline, glucocorticoids)	)		
	20:1) WITH ELEVATED CREATIN a (BUN rises disproportionate		a obstructivo urop	athul
	superimposed on renal disea		e.g. obstructive uropa	attry).
DECREASED RATIO (<	10:1) WITH DECREASED BUN :			
1. Acute tubular necr				
<ol> <li>Low protein diet al 3. Severe liver diseas</li> </ol>				
	ecreased urea synthesis.			
5. Repeated dialysis	(urea rather than creatinine c	diffuses out of extracellul	ar fluid).	
6. Inherited hyperam	nmonemias (urea is virtually a	absent in blood).		
	of inappropiate antidiuretic ha	armone) due to tubular se	ecretion of urea.	
8. Pregnancy.				
	10:1) WITH INCREASED CREATI apy (accelerates conversion of			

- 2. Rhabdomyolysis (releases muscle creatinine).
- 3. Muscular patients who develop renal failure.

## **INAPPROPIATE RATIO:**

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

ESTIMATED GLOMERULAR FI	LTERATION RATE:		
CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS
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	





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Test Name		Value Unit	Biological Reference interval
G5	Kidney failure	<15	

CON	лкл	EN	тс
CON	/11 / 1		13.

1. Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a

Estimated Glomerular filtration rate (GGFR) is the sum of filtration rates in all functioning hephrons 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 eGFR with Cystatin C for confirmation of CKD
 eGFR category G1 OR G2 does not fullfill the criteria for CKD, in the absence of evidence of Kidney Damage
 In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
 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
 A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (ag severe dehydration)

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN		Unit	Biological Reference interval
	тн		OCRINOLOGY	
TRIIODOTHYRONINI	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASS/	0.874 4 <i>Y)</i>	ng/mL	0.35 - 1.93
THYROXINE (T4): SE		5.35	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> :			µIU/mL	0.35 - 5.50
day has influence on the trilodothyronine (T3).Fai		timulates the p	production and secretion of the m	<i>m. The variation is of the order of 50%.Hence time of th</i> etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

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)         THYROXINE (T4)         THYROID STIMULATING HORMOI		THYROXINE (T4)		ATING 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





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Test Name		Value	Unit	Biological Reference interval

Dr. Vinay Chopra

Test Name			Value	Unit	t	Biological Reference interva
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	
	RECO	VIMENDATIONS 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, 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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Test News		Mahar	11-34	Distantial Defenses interest
Test Name		Value	Unit	Biological Reference interval
		CLINICAL F	PATHOLOGY	
	URINE	ROUTINE & MIC	ROSCOPIC EXAMINAT	TION
PHYSICAL EXAMINAT	ION			
QUANTITY RECIEVED		10	ml	
	ANCE SPECTROPHOTOMETRY			
COLOUR		AMBER YEL	LOW	PALE YELLOW
TRANSPARANCY	ANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
	ANCE SPECTROPHOTOMETRY	OLLAN		GELAK
SPECIFIC GRAVITY		1.01		1.002 - 1.030
-	ANCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINA	HON			
REACTION		NEUTRAL		
by DIP STICK/REFLECT PROTEIN	ANCE SPECTROPHOTOMETRY	Nogativo		
	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECT	ANCE SPECTROPHOTOMETRY	ů.		
pH		7		5.0 - 7.5
BILIRUBIN	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-Ve)
NITRITE		Negative		NEGATIVE (-ve)
•	ANCE SPECTROPHOTOMETRY.			
		Normal	EU/dL	0.2 - 1.0
KETONE BODIES	ANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY	reguire		
BLOOD		Negative		NEGATIVE (-ve)
	ANCE SPECTROPHOTOMETRY		(	
ASCORBIC ACID	ANCE SPECTROPHOTOMETRY	NEGATIVE	(-ve)	NEGATIVE (-ve)
MICROSCOPIC EXAM				



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

NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
ABSENT	ABSENT
	NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

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





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