



	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant		M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. KIRPAL SINGH			
AGE/ GENDER	: 50 YRS/MALE		PATIENT ID	: 1556408
COLLECTED BY	:		REG. NO./LAB NO.	: 012407220005
REFERRED BY	:		REGISTRATION DATE	: 22/Jul/2024 07:50 AM
BARCODE NO.	:01513584		COLLECTION DATE	: 22/Jul/2024 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Jul/2024 08:50AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.2	2
	CON		LOOD COUNT (CBC)	
	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		13.6	gm/dL	12.0 - 17.0
by CALORIMETRIC				
RED BLOOD CELL (RE	3C) COUNT FOCUSING, ELECTRICAL IMPEDENCE	5.5 ^H	Million	s/cmm 3.50 - 5.00
PACKED CELL VOLUN	/IE (PCV)	43.5	%	40.0 - 54.0
MEAN CORPUSCULA	AUTOMATED HEMATOLOGY ANALYZER R VOLUME (MCV)	79.2 ^L	fL	80.0 - 100.0
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
	R HAEMOGLOBIN (MCH)	24.7 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	31.2 ^L	g/dL	32.0 - 36.0
•	TION WIDTH (RDW-CV)	14.5	%	11.00 - 16.00
•		12 1	fL	35.0 - 56.0
	TON WIDTH (RDW-SD)	43.1	IL	33.0 - 38.0
MENTZERS INDEX		14.4	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	X	20.86	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED		20.00	IX-110	65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS				
TOTAL LEUCOCYTE C by FLOW CYTOMETRY	OUNT (TLC) y by sf cube & microscopy	7350	/cmm	4000 - 11000
NUCLEATED RED BLC		NIL		0.00 - 20.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % AUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

DIFFERENTIAL LEUCOCYTE COUNT (DLC)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. KIRPAL SINGH AGE/ GENDER : 50 YRS/MALE **PATIENT ID** :1556408 **COLLECTED BY** :012407220005 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 22/Jul/2024 07:50 AM **BARCODE NO.** :01513584 **COLLECTION DATE** : 22/Jul/2024 08:54AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 22/Jul/2024 08:50AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** NEUTROPHILS % 50 - 70 49^L by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 35 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS % 6 1 - 6by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES % 10 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % **BASOPHILS** 0 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3602 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2572 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 40 - 440 441^H /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 735 /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) /cmm 150000 - 450000 137000^L by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.2 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE **MEAN PLATELET VOLUME (MPV)** 14^H fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 77000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 56.6^H % 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.7 %

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

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	MD (Pathology 8	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		r Chopra (Pathology) Pathologist
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Test Name		Value	Unit	Biological Reference interval
	ERYTH	HROCYTE SEDII	MENTATION RATE (ESI	R)
	MENTATION RATE (ESR)	10	mm/1st h	r 0 - 20
(polycythaemia), sign as sickle cells in sick NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dex	en with conditions that inhibit the nificantly high white blood cell co le cell anaemia) also lower the E we protein (C-RP) are both marker es not change as rapidly as does (I by as many other factors as is ES ted, it is typically a result of two to ave a higher ESR, and menstruation	ount (leucocytosis ESR. CRP, either at the SR, making it a bet types of proteins, on and pregnancy	s), and some protein abno start of inflammation or as t er marker of inflammation globulins or fibrinogen. can cause temporary eleva	1.
	an	6	shopra	

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Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY	BIOCHEMISTRY	(
	CLIN	ICAL CHEMISTRY. GLUCOSE FAS		r i

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	F : BASIC	
CHOLESTEROL TOTA	I · SERUM	165.85	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OX		100.00	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	145.78	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		41.83	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		94.86	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159. HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTE by calculated, spe		124.02	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189. HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL:		29.16	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUI by CALCULATED, SPE	N	477.48	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL I by CALCULATED, SPE	ratio: serum	3.96	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SER by Calculated, spe		2.27	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDI	RATIO: SERUM	3.49	RATIO	3.00 - 5.00

by CALCULATED, SPECTROPHOTOMETRY

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

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Test Name	Value	Unit	Biological Reference interval
L	IVER FUNCTION TE	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.37	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by diazo modified, spectrophotometry	0.16	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.21	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	25.52	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	39.45	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	0.65	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METH PROPANOL	70 YL	U/L	40.0 - 150.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	38	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by biuret, spectrophotometry	7.11	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by bromocresol green	4.33	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.78	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	1.56	RATIO	1.00 - 2.00

<u>INTERPRETATION</u> NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

Dr. Vinay Chopra

MD (Pathology & Microbiology)

Chairman & Consultant Pathologist

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





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Test Name		Value	Unit	Biological Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.	3 (Slightly Increas	ed)

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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	ĸı		TEST (COMPLETE)	
UREA: SERUM		37.69	mg/dL	10.00 - 50.00
	ATE DEHYDROGENASE (GLDH)	37.07	ing/ dL	10.00 - 30.00
CREATININE: SERUM		0.91	mg/dL	0.40 - 1.40
•	by enzymatic, spectrophotometery BLOOD UREA NITROGEN (BUN): SERUM		mg/dL	7.0 - 25.0
by CALCULATED, SPECTROPHOTOMETRY		17.61	ing/uL	7.0 - 23.0
	BLOOD UREA NITROGEN (BUN)/CREATININE		RATIO	10.0 - 20.0
RATIO: SERUM by CALCULATED, SPE				
UREA/CREATININE F		41.42	RATIO	
by CALCULATED, SPE	ECTROPHOTOMETRY			
URIC ACID: SERUM by URICASE - OXIDAS		7.11	mg/dL	3.60 - 7.70
CALCIUM: SERUM	ETEROXIDAGE	8.58	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			5	
PHOSPHOROUS: SER	RUM DATE, SPECTROPHOTOMETRY	3.33	mg/dL	2.30 - 4.70
ELECTROLYTES	ATE, SPECIKOPHOTOMETKI			
SODIUM: SERUM		142.8	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	E ELECTRODE)			
POTASSIUM: SERUM		3.76	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV CHLORIDE: SERUM	E ELEUIKUDE)	107.1	mmol/L	90.0 - 110.0
by ISE (ION SELECTIVE ELECTRODE)		107.1	Hintol/E	
ESTIMATED GLOME	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	102.7		
(eGFR): SERUM				

by CALCULATED **INTERPRETATION:**

To differentiate between pre- and post renal azotemia.

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

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

2. Catabolic states with increased tissue breakdown.



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Test Name		Value Unit	Biological	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet a 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 ESTIMATED GLOMERI CKD STAGE G1 G2	nd starvation. e. ccreased urea synthesis. (urea rather than creatinine diffuses of monemias (urea is virtually absent in of inappropiate antidiuretic harmone) 10:1) WITH INCREASED CREATININE: apy (accelerates conversion of creating eleases muscle creatinine). who develop renal failure. bis (acetoacetate causes false increase increased BUN/creatinine ratio). rapy (interferes with creatinine measu JLAR FILTERATION RATE: DESCRIPTION Normal kidney function Kidney damage with normal or high GFR	blood). due to tubular secretion of urea. e to creatinine). se in creatinine with certain metho urement). GFR (mL/min/1.73m2) >90 >90	odologies,resulting in norma ASSOCIATED FINDINGS No proteinuria Presence of Protein , Albumin or cast in urine	I ratio when dehydratior
G3a	Mild decrease in GFR	60 -89		
G3b	Moderate decrease in GFR			
G4	Severe decrease in GFR	15-29		

G5

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Kidney failure

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

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	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path		(Pathology)
NAME	: Mr. KIRPAL SINGH		
AGE/ GENDER	: 50 YRS/MALE	PATIENT ID	: 1556408
COLLECTED BY	:	REG. NO./LAB NO.	: 012407220005
REFERRED BY	:	REGISTRATION DATE	: 22/Jul/2024 07:50 AM
BARCODE NO.	: 01513584	COLLECTION DATE	: 22/Jul/2024 08:54AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 22/Jul/2024 09:27AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CA	ANTT	
Test Name	Value	e 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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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 22/Jul/2024 09:36AM		
Test Name		Value	Unit	Biological Reference interval		
	ТНҮ		ICTION TEST: TOTAL			
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM NESCENT MICROPARTICLE IMMUNOASSA	0.894 Y)	ng/mL	0.35 - 1.93		
THYROXINE (T4): SE	RUM iescent microparticle immunoassa'	5.71 _{Y)}	μgm/dL	4.87 - 12.60		
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION</u> : TSH levels are subject to day has influence on the	ricadian variation, reaching peak levels bet	ween 2-4 a.m. mulates the p	roduction and secretion of the m	0.35 - 5.50 m. The variation is of the order of 50%.Hence time of the 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 Reduced (at times undetectable) Primary Hyperthyroidism: Increased Increased 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 levies 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.

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





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			/
Test Name	Value	Unit	Biological Reference interval

lest Name			Value	Unit		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	DMMENDATIONS 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 Name		Value	Unit	Biological Reference interval
		CLINICAL PAT	HOLOGY	
	URINE R	OUTINE & MICROS	COPIC EXAMINAT	TION
PHYSICAL EXAMINA				
QUANTITY RECIEVED)	10	ml	
COLOUR		PALE YELLOW		PALE YELLOW
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR
SPECIFIC GRAVITY	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY			
PROTEIN		Negative		NEGATIVE (-ve)
SUGAR	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	Negative		
рН		<=5.0		5.0 - 7.5
BILIRUBIN	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
NITRITE		Negative		NEGATIVE (-ve)
UROBILINOGEN	TANCE SPECTROPHOTOMETRY.	Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY		LOIGE	
KETONE BODIES		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC BLOOD	TANCE SPECTROPHOTOMETRY	Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY MICROSCOPIC EXAMINATION		NEGATIVE (-ve)		NEGATIVE (-ve)

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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
		2.2		0 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	INT			
PUS CELLS	2-3	/HPF	0 - 5	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIME EPITHELIAL CELLS	1-2	/HPF	ABSENT	
by MICROSCOPY ON CENTRIFUGED URINARY SEDIME CRYSTALS				
by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	NEGATIVE (-ve)		NEGATIVE (-ve)	
CASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	NEGATIVE (-ve)		NEGATIVE (-ve)	
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	NEGATIVE (-ve)		NEGATIVE (-ve)	
OTHERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	NEGATIVE (-ve)		NEGATIVE (-ve)	
TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIME	ABSENT		ABSENT	

*** End Of Report ***





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