A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. AMIT KHANNA			
AGE/ GENDER	: 33 YRS/MALE		PATIENT ID	: 1580144
COLLECTED BY	:		REG. NO./LAB NO.	: 122408140016
<b>REFERRED BY</b>	:		<b>REGISTRATION DATE</b>	: 14/Aug/2024 09:57 AM
BARCODE NO.	: 12504148		<b>COLLECTION DATE</b>	: 14/Aug/2024 10:41AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITU	JTE	<b>REPORTING DATE</b>	: 14/Aug/2024 01:34PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - H	ARYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA W	ELLNESS PANEL: 1.2	
	CON	/IPLETE BI	LOOD COUNT (CBC)	
RED BLOOD CELLS (RB	CS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		14.9	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC		4.81	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUME	CUSING, ELECTRICAL IMPEDENCE (PCV) TOMATED HEMATOLOGY ANALYZER	42.4	%	40.0 - 54.0
MEAN CORPUSCULAR		88.2	KR fl	80.0 - 100.0
MEAN CORPUSCULAR	HAEMOGLOBIN (MCH)	30.9	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	35.1	g/dL	32.0 - 36.0
	TOMATED HEMATOLOGY ANALYZER	13.3	%	11.00 - 16.00
RED CELL DISTRIBUTIO	ON WIDTH (RDW-SD) TOMATED HEMATOLOGY ANALYZER	45.3	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	TOWATED TIEWATOLOGT ANALTZER	18.34	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX		24.33	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (				
TOTAL LEUCOCYTE CO by FLOW CYTOMETRY E DIFFERENTIAL LEUCOC	BY SF CUBE & MICROSCOPY	6440	/cmm	4000 - 11000
NEUTROPHILS	BY SF CUBE & MICROSCOPY	46 <sup>L</sup>	%	50 - 70
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	37	%	20 - 40



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST

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Test Name		Value	Unit	Biological Reference interval
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	9 <sup>H</sup>	%	1-6
MONOCYTES	BY SF CUBE & MICROSCOPY	8	%	2 - 12
BASOPHILS by flow cytometry ABSOLUTE LEUKOCY	BY SF CUBE & MICROSCOPY TES (WBC) COUNT	0	%	0 - 1
	HIL COUNT BY SF CUBE & MICROSCOPY	2962	/cmm	2000 - 7500
ABSOLUTE LYMPHOC		2383 <sup>L</sup>	/cmm	800 - 4900
ABSOLUTE EOSINOP	HIL COUNT / BY SF CUBE & MICROSCOPY	580 <sup>H</sup>	/cmm	40 - 440
ABSOLUTE MONOCY by FLOW CYTOMETRY	TE COUNT Y BY SF CUBE & MICROSCOPY	515	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	/cmm	0 - 110
<u>PLATELETS AND OTH</u> PLATELET COUNT (PL	I <u>ER PLATELET PREDICTIVE MARKE</u> T)	<u>RS.</u> 140000 <sup>L</sup>	/cmm	150000 - 450000
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.17	%	0.10 - 0.36
MEAN PLATELET VOL		12 <sup>H</sup>	fL	6.50 - 12.0
PLATELET LARGE CEL		58000	/cmm	30000 - 90000
PLATELET LARGE CEL		41.3	%	11.0 - 45.0
PLATELET DISTRIBUT		16.7	%	15.0 - 17.0



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	ROCYTE SEDIN	MENTATION RATE (ES	R)
ERYTHROCYTE SEDIN	MENTATION RATE (ESR)	7	mm/1st h	nr 0 - 20
NTERPRETATION:	GREN AUTOMATED METHOD			
<ol> <li>ESR is a non-specif</li> </ol>	ic test because an elevated result	often indicates	the presence of inflammati	ion associated with infection, cancer and auto
mmune disease, but	does not tell the health practition	ner exactly where	e the inflammation is in the	e body or what is causing it. pically used in conjunction with other test suc
as C-reactive protein	,			
<ol> <li>This test may also systemic lupus erythe</li> </ol>	be used to monitor disease activity	ty and response t	to therapy in both of the a	bove diseases as well as some others, such as
CONDITION WITH LO	N ESR			
A low ESR can be see (polycythaemia), sigr	n with conditions that inhibit the ificantly high white blood cell cou	normal sedimen	tation of red blood cells, si and some protein abno	uch as a high red blood cell count rmalities. Some changes in red cell shape (su
as sickle cells in sickl	e cell anaemia) also lower the ES	iR.		
<b>NOTE:</b> 1. ESR and C - reactiv	e protein (C-RP) are both markers	of inflammation		
2. Generally, ESR doe	s not change as rapidly as does C by as many other factors as is ESR	RP, either at the	start of inflammation or as	s it resolves.
4. If the ESR is elevate	ed, it is typically a result of two ty	pes of proteins.	alobulins or fibrinogen.	
5. Women tend to ha	ve a higher ESR, and menstruation	and pregnancy	can cause temporary eleva	itions. Iline, and vitamin A can increase ESR, while
aspirin, cortisone, an	d quinine may decrease it	ives, periicinariii	ne procamannue, meophy	nine, and vitamin A can increase LSR, while



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HAR	ZYANA		
r					
Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEIVIIS	RY/BIOCHEMISTR	Y	
		GLUCOSE	FASTING (F)		
GLUCOSE FASTING (F		93.41	mg/dL	NORMAL: < 100.0	
by GLUCOSE OXIDAS	E - PEROXIDASE (GOD-POD)			PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0	
<b>INTERPRETATION</b>					
	H AMERICAN DIABETES ASSOCIA lucose level below 100 mg/dl is				

A fasting plasma glucose level below 100 mg/di 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. 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 P	ROFILE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OXI		168.4	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERI	UM HATE OXIDASE (ENZYMATIC)	85.17	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		41.71	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		109.66	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 CHOLESTER by CALCULATED, SPEC		126.69	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:		17.03	mg/dL	0.00 - 45.00
by CALCULATED, SPEC TOTAL LIPIDS: SERUN by CALCULATED, SPEC	Л	421.97	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL R by CALCULATED, SPEC	RATIO: SERUM	4.04	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, SPEC		2.63	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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Page 5 of 15

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<b>CLIENT ADDRESS</b>	: NASIRPUR, HISSAR ROAD, AMBALA CITY - I	HARYANA	
Test Name	Value	Unit	<b>Biological Reference interval</b>

rest Name	value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL RATIO: SERUM	2.04 <sup>L</sup>	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.

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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### PKR JAIN HEALTHCARE INSTITUTE NASIRPUR, Hissar Road, AMBALA CITY- (Haryana) A PIONEER DIAGNOSTIC CENTRE

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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - HAF	RYANA		
Test Name		Value	Unit	Biological Reference interval	
	LIV	ER FUNCTION	I TEST (COMPLETE)		
BILIRUBIN TOTAL: SE	RUM	0.77	mg/dL	INFANT: 0.20 - 8.00	
by DIAZOTIZATION, SPECTROPHOTOMETRY		J. J	ADULT: 0.00 - 1.20		
BILIRUBIN DIRECT (CO	ONJUGATED): SERUM	0.27	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT	(UNCONJUGATED): SERUM	0.5	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM by IFCC, WITHOUT PYR		23.76	U/L	7.00 - 45.00	
SGPT/ALT: SERUM		24.17	U/L	0.00 - 49.00	
by IFCC, WITHOUT PYR			DATIO		
AST/ALT RATIO: SERL by CALCULATED, SPEC		0.98	RATIO	0.00 - 46.00	
ALKALINE PHOSPHATASE: SERUM		66.26	U/L	40.0 - 130.0	
by PARA NITROPHENY PROPANOL	L PHOSPHATASE BY AMINO METHYL				
GAMMA GLUTAMYL by SZASZ, SPECTROPH	TRANSFERASE (GGT): SERUM	24.07	U/L	0.00 - 55.0	
TOTAL PROTEINS: SEI	RUM	6.48	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM		4.34	gm/dL	3.50 - 5.50	

by BROMOCRESOL GREEN GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY 2.03<sup>H</sup>

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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2.30 - 3.50

1.00 - 2.00

gm/dL

RATIO



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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:

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	Biological Reference interval	
	KI	ONEY FUNCT	ION TEST (COMPLETE)		
UREA: SERUM		21.32	mg/dL	10.00 - 50.00	
	ATE DEHYDROGENASE (GLDH)	21102	iiig/ dE		
CREATININE: SERUM		1.11	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC		9.96	mald	7.0.25.0	
BLOOD UREA NITRO by CALCULATED, SPE		9.90	mg/dL	7.0 - 25.0	
	GEN (BUN)/CREATININE	8.97 <sup>L</sup>	RATIO	10.0 - 20.0	
RATIO: SERUM					
by CALCULATED, SPE		10.21			
UREA/CREATININE R by CALCULATED, SPE		19.21	RATIO		
URIC ACID: SERUM		4.38	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS	E PEROXIDASE		Ů		
CALCIUM: SERUM		9.52	mg/dL	8.50 - 10.60	
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.6	mg/dL	2.30 - 4.70	
	DATE, SPECTROPHOTOMETRY	3.0	mg/uL	2.30 - 4.70	
ELECTROLYTES					
sodium: serum		144.7	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV	E ELECTRODE)				
POTASSIUM: SERUM		4.2	mmol/L	3.50 - 5.00	
by ISE (ION SELECTIV CHLORIDE: SERUM	E ELECTRODE)	108.53	mmol /l	00.0 110.0	
by ISE (ION SELECTIV	'E ELECTRODE)	108.53	mmol/L	90.0 - 110.0	
	RULAR FILTERATION RATE				
ESTIMATED GLOME	RULAR FILTERATION RATE	89.9			
(eGFR): SERUM		0			
by CALCULATED					
INTERPRETATION:	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.

2. Catabolic states with increased tissue breakdown.



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<ol> <li>GI haemorrhage.</li> <li>High protein intake</li> </ol>			
Test Name	Value	Unit	Biological Reference interva
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5. Impaired renal function plus

6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet,

burns, surgery, cachexia, high fever).

7. Urine reabsorption (e.g. ureter colostomy)

8. Reduced muscle mass (subnormal creatinine production)

9. Certain drugs (e.g. tetracycline, glucocorticoids)

#### INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS:

1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy).

2. Prerenal azotemia superimposed on renal disease.

#### DECREASED RATIO (<10:1) WITH DECREASED BUN :

1. Acute tubular necrosis.

2. Low protein diet and starvation.

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

#### DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

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).

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	
G5	Kidney failure	<15	



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A PIONEER DIAGNOSTIC CENTRE

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NAME	: Mr. AMIT KHANNA		
AGE/ GENDER	: 33 YRS/MALE	PATIENT ID	: 1580144
<b>COLLECTED BY</b>	:	<b>REG. NO./LAB NO.</b>	: 122408140016
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 14/Aug/2024 09:57 AM
BARCODE NO.	: 12504148	<b>COLLECTION DATE</b>	: 14/Aug/2024 10:41AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE	<b>REPORTING DATE</b>	: 14/Aug/2024 05:00PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	- HARYANA	

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

3. 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

4. eGFR category G1 OR G2 does not fullfill 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		Value	l lmit	Dialogical Deference interval
Test Name		Value	Unit	Biological Reference interval
Test Name		Value ENDOCRINO		Biological Reference interval
Test Name	THYR		LOGY	Biological Reference interval
TRIIODOTHYRONINE	(T3): SERUM	ENDOCRINO COID FUNCTION	LOGY	Biological Reference interval
TRIIODOTHYRONINE	(T3): SERUM escent microparticle immunoassay)	ENDOCRINO COID FUNCTION	LOGY TEST: TOTAL	-
TRIIODOTHYRONINE by cmia (chemilumin Thyroxine (T4): Sef by cmia (chemilumin	(T3): SERUM escent microparticle immunoassay) RUM escent microparticle immunoassay)	ENDOCRINO COID FUNCTION 1.31 7.01	DLOGY TEST: TOTAL ng/mL μgm/dL	0.35 - 1.93 4.87 - 12.60
TRIIODOTHYRONINE by cmia (chemilumin Thyroxine (T4): Sef by cmia (chemilumin Thyroid Stimulat	(T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) RUM ESCENT MICROPARTICLE IMMUNOASSAY) NG HORMONE (TSH): SERUM	<b>ENDOCRINO</b> <b>COID FUNCTION</b> 1.31 7.01 3.05	DLOGY TEST: TOTAL ng/mL	0.35 - 1.93
TRIIODOTHYRONINE by cmia (chemilumin Thyroxine (T4): Sef by cmia (chemilumin Thyroid Stimulat	(T3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY) RUM ESCENT MICROPARTICLE IMMUNOASSAY) NG HORMONE (TSH): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	<b>ENDOCRINO</b> <b>COID FUNCTION</b> 1.31 7.01 3.05	DLOGY TEST: TOTAL ng/mL μgm/dL	0.35 - 1.93 4.87 - 12.60

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either underproduction (hypothyroidism) or overproduction(hyperthyroidism) of T4 and/or T3.

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 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.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMUL	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
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	
	RECON	IMENDATIONS OF TSH LI	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 RC	DUTINE & MICROS	COPIC EXAMINAT	ION		
PHYSICAL EXAMINA	TION					
QUANTITY RECIEVED	)	30	ml			
	TANCE SPECTROPHOTOMETRY					
COLOUR		PALE YELLOW		PALE YELLOW		
TRANSPARANCY	TANCE SPECTROPHOTOMETRY	CLEAR		CLEAR		
	TANCE SPECTROPHOTOMETRY	OLLAN		CLEAR		
SPECIFIC GRAVITY		1.02		1.002 - 1.030		
-	TANCE SPECTROPHOTOMETRY					
CHEMICAL EXAMINA	ATION					
REACTION		ACIDIC				
-	TANCE SPECTROPHOTOMETRY					
PROTEIN		NEGATIVE (-ve)		NEGATIVE (-ve)		
SUGAR	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-VE)		
pH		5.5		5.0 - 7.5		
1	TANCE SPECTROPHOTOMETRY					
BILIRUBIN		NEGATIVE (-ve)		NEGATIVE (-ve)		
	TANCE SPECTROPHOTOMETRY					
NITRITE	TANCE SPECTROPHOTOMETRY.	NEGATIVE (-ve)		NEGATIVE (-ve)		
UROBILINOGEN		NOT DETECTED	EU/dL	0.2 - 1.0		
	TANCE SPECTROPHOTOMETRY		20/02	0.2		
KETONE BODIES		NEGATIVE (-ve)		NEGATIVE (-ve)		
,	TANCE SPECTROPHOTOMETRY					
BLOOD	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
ASCORBIC ACID	TANGE SPECI ROPHOTOMETRY	NEGATIVE (-ve)		NEGATIVE (-ve)		
	TANCE SPECTROPHOTOMETRY					
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		3-4	/HPF	0 - 5	
EPITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT		2-3	/HPF	ABSENT	
CRYSTALS		NEGATIVE (-ve)		NEGATIVE (-ve)	

NEGATIVE (-VE)	NEORINE (-VE)
NEGATIVE (-ve)	NEGATIVE (-ve)
NEGATIVE (-ve)	NEGATIVE (-ve)
DKP	· · ·
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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