



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologi		Pathology)
NAME : Mrs. F	PRIYANKA SINGH		
AGE/ GENDER : 45 YRS	S/FEMALE	PATIENT ID	: 1599033
COLLECTED BY : SURJE	SH	REG. NO./LAB NO.	: 012409020046
REFERRED BY : CENTR	RAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 02/Sep/2024 11:57 AM
BARCODE NO. : 01516	179	COLLECTION DATE	:02/Sep/2024 12:04PM
CLIENT CODE. : KOS D	IAGNOSTIC LAB	REPORTING DATE	: 02/Sep/2024 12:48PM
CLIENT ADDRESS : 6349/	1, NICHOLSON ROAD, AMBALA CANT	Т	
Test Name	Value	Unit	Biological Reference interval
	SWASTHYA W	ELLNESS PANEL: DT	
		LOOD COUNT (CBC)	
RED BLOOD CELLS (RBCS) COL		,	
HAEMOGLOBIN (HB) by CALORIMETRIC	10.3 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUN by HYDRO DYNAMIC FOCUSING,		Millions/cm	nm 3.50 - 5.00
PACKED CELL VOLUME (PCV) by CALCULATED BY AUTOMATE	31.6 ^L	%	37.0 - 50.0
MEAN CORPUSCULAR VOLUN by CALCULATED BY AUTOMATE	IE (MCV) 87.7	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMO by CALCULATED BY AUTOMATE	OGLOBIN (MCH) 28.4	pg	27.0 - 34.0
MEAN CORPUSCULAR HEMOC by CALCULATED BY AUTOMATE	GLOBIN CONC. (MCHC) 32.3	g/dL	32.0 - 36.0
RED CELL DISTRIBUTION WID by CALCULATED BY AUTOMATE	TH (RDW-CV) 14.3	%	11.00 - 16.00
RED CELL DISTRIBUTION WID by CALCULATED BY AUTOMATE	TH (RDW-SD) 46.7	fL	35.0 - 56.0
MENTZERS INDEX by CALCULATED	24.36	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED	34.58	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TL by FLOW CYTOMETRY BY SF CL		/cmm	4000 - 11000
NUCLEATED RED BLOOD CELL by AUTOMATED 6 PART HEMATO	S (nRBCS) NIL		0.00 - 20.00
NUCLEATED RED BLOOD CELL by CALCULATED BY AUTOMATE DIFFERENTIAL LEUCOCYTE CO	S (nRBCS) % NIL D HEMATOLOGY ANALYZER	%	< 10 %
NEUTROPHILS	BE & MICROSCOPY	%	50 - 70



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







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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMI	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES	BY SF CUBE & MICROSCOPY	40 ^H	%	20 - 40
EOSINOPHILS	BT SF COBE & MICKOSCOFT	1	%	1 - 6
-	BY SF CUBE & MICROSCOPY			
MONOCYTES	BY SF CUBE & MICROSCOPY	9	%	2 - 12
BASOPHILS		0	%	0 - 1
	BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOCYT				2000 7500
ABSOLUTE NEUTROP by FLOW CYTOMETRY	HIL COUNT BY SF CUBE & MICROSCOPY	1985 ^L	/cmm	2000 - 7500
ABSOLUTE LYMPHOC		1588	/cmm	800 - 4900
ABSOLUTE EOSINOPH	BY SF CUBE & MICROSCOPY III. COUNT	40	/cmm	40 - 440
by FLOW CYTOMETRY	BY SF CUBE & MICROSCOPY		701111	
	E COUNT by sf cube & microscopy	357	/cmm	80 - 880
ABSOLUTE BASOPHIL		0	/cmm	0 - 110
	BY SF CUBE & MICROSCOPY			
	ER PLATELET PREDICTIVE MARKER	_		
PLATELET COUNT (PL by HYDRO DYNAMIC F	l) OCUSING, ELECTRICAL IMPEDENCE	111000 ^L	/cmm	150000 - 450000
PLATELETCRIT (PCT)	OCUSING, ELECTRICAL IMPEDENCE	0.16	%	0.10 - 0.36
MEAN PLATELET VOL		15 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL by HYDRO DYNAMIC FO	COUNT (P-LCC)	64000	/cmm	30000 - 90000
PLATELET LARGE CELL	. RATIO (P-LCR) ocusing, electrical impedence	58.4 ^H	%	11.0 - 45.0
PLATELET DISTRIBUTI		16.7	%	15.0 - 17.0

RECHECKED



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0 9001.2008 CENT				
		hopra & Microbiology) onsultant Pathologist	Dr. Yugam (MD (Pa CEO & Consultant Pa	athology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDIMENT	ATION RATE (ESR)	
	MENTATION RATE (ESR)	3	mm/1st hr	0 - 20
immune disease, but 2. An ESR can be affe as C-reactive protein 3. This test may also systemic lupus erythe CONDITION WITH LOV A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactive 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 6. Drugs such as dext	does not tell the health practit cted by other conditions beside be used to monitor disease act ematosus W ESR n with conditions that inhibit th ifficantly high white blood cell e cell anaemia) also lower the e protein (C-RP) are both market s not change as rapidly as does by as many other factors as is E ed, it is typically a result of two ve a higher ESR, and menstruat	ioner exactly where the in es inflammation. For this re- ivity and response to thera- he normal sedimentation of count (leucocytosis), and ESR. ers of inflammation. 5 CRP, either at the start of SR, making it a better mar o types of proteins, globulin ion and pregnancy can cau	flammation is in the b eason, the ESR is typic apy in both of the abo of red blood cells, such some protein abnorm f inflammation or as it ker of inflammation. is or fibrinogen. is temporary elevatic	ally used in conjunction with other test such ve diseases as well as some others, such as n as a high red blood cell count valities. Some changes in red cell shape (such resolves.

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
	CLIN		STRY/BIOCHEMISTR	Y
		GLUCOS	E FASTING (F)	
GLUCOSE FASTING (F): PLASMA e - peroxidase (god-pod)	81.85	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.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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		Chopra y & Microbiology) Consultant Pathologis		(Pathology)
NI A NATE		onsultant ratiologis		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANT'I		
Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		161.03	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSE	UM HATE OXIDASE (ENZYMATIC)	57.85	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199. HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBIT		42.51	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		106.95	mg/dL	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		118.52	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:		11.57	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUI	N	379.91	mg/dL	350.00 - 700.00
by CALCULATED, SPE CHOLESTEROL/HDL I by CALCULATED, SPE	RATIO: SERUM	3.79	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		2.52	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

677

2.747

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.36 ^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.

 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	Biological Reference interval
	LIV	/ER FUNCTIO	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM	0.88	mg/dL	INFANT: 0.20 - 8.00
by DIAZOTIZATION, SI	PECTROPHOTOMETRY			ADULT: 0.00 - 1.20
	CONJUGATED): SERUM SPECTROPHOTOMETRY	0.23	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	CUNCONJUGATED): SERUM	0.65	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	28.51	U/L	7.00 - 45.00
SGPT/ALT: SERUM		15.91	U/L	0.00 - 49.00
AST/ALT RATIO: SER		1.79	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		49.5	U/L	40.0 - 150.0
	TRANSFERASE (GGT): SERUM	12.6	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.53	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.86	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.67	gm/dL	2.30 - 3.50
by CALCULATED, SPE A : G RATIO: SERUM		1.45	RATIO	1.00 - 2.00

A : G RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY

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





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INTERPRETATION





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit	Biological	Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	

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
	кі		ON TEST (COMPLETE)	
UREA: SERUM		15.12	mg/dL	10.00 - 50.00
	NATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN		0.72	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC)GEN (BUN): SERUM	7.07	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	7.07	Thy/dL	1.0 - 23.0
BLOOD UREA NITRO	GEN (BUN)/CREATININE	9.82 ^L	RATIO	10.0 - 20.0
RATIO: SERUM	ECTROPHOTOMETRY			
UREA/CREATININE		21	RATIO	
	ECTROPHOTOMETRY			
URIC ACID: SERUM		4.8	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE	0.20	mg/dL	8.50 - 10.60
	ECTROPHOTOMETRY	8.39 ^L	IIIg/ dL	8.50 - 10.00
PHOSPHOROUS: SEF		4.25	mg/dL	2.30 - 4.70
ELECTROLYTES	DATE, SPECTROPHOTOMETRY			
Sodium: Serum		138.9	mmol/l	125.0 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	130.9	mmol/L	135.0 - 150.0
POTASSIUM: SERUM		3.88	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)	104.10		00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	104.18	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	105		
(eGFR): SERUM				
by CALCULATED				
INTERPRETATION:				

<u>INTERPRETATION:</u> 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 PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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Test Name	V	alue Uni	t Biological Ref	erence interval	
5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. DECREASED RATIO (7. Phenacimide thera 2. Rhabdomyolysis (r 3. Muscular patients INAPPROPIATE RATIO 1. Diabetic ketoacido should produce an in 2. Cephalosporin ther ESTIMATED GLOMERU CKD STAGE G1	nd starvation. e. creased urea synthesis. (urea rather than creatinine diffuses out imonemias (urea is virtually absent in blo of inappropiate antidiuretic harmone) du 10:1) WITH INCREASED CREATININE: upy (accelerates conversion of creatine to eleases muscle creatinine). who develop renal failure. c: usis (acetoacetate causes false increase i icreased BUN/creatinine ratio). rapy (interferes with creatinine measurer JLAR FILTERATION RATE: DESCRIPTION Normal kidney function	ood). ue to tubular secretion of urea. o creatinine). n creatinine with certain meth ment). <u>GFR (mL/min/1.73m2)</u> >90	nodologies,resulting in normal ra ASSOCIATED FINDINGS No proteinuria	tio when dehydratic	
G2	Kidney damage with	>90	Presence of Protein,		
<u> </u>	normal or high GFR	40,00	Albumin or cast in urine		
G3a G3b	Mild decrease in GFR Moderate decrease in GFR	60 -89 30-59			
630	WOULEI ALE UEULEASE III GER	30-59			

G4

G5

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Severe decrease in GFR

Kidney failure

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

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologis		(Pathology)
NAME	: Mrs. PRIYANKA SINGH		
AGE/ GENDER	: 45 YRS/FEMALE	PATIENT ID	: 1599033
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409020046
REFERRED BY	: CENTRAL PHOENIX CLUB (AMBALA CANTT)	REGISTRATION DATE	: 02/Sep/2024 11:57 AM
BARCODE NO.	:01516179	COLLECTION DATE	:02/Sep/2024 12:04PM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:02/Sep/202401:19PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANTT	2	
Test Name	Value	Unit	Biological Reference interval

COMMENTS: 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 measure of functioning nephrons of the kidney. 2. 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 Creatine CFP.

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	Va	lue	Unit	Biological Reference interval
	E	NDOCI	RINOLOGY	
	THYROID	D FUNC	TION TEST: TOTAL	
TRIIODOTHYRONINI by CMIA (CHEMILUMIN	E (T3): SERUM 0.7 NESCENT MICROPARTICLE IMMUNOASSAY)	795	ng/mL	0.35 - 1.93
THYROXINE (T4): SE		92	μgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM 2.5 NESCENT MICROPARTICLE IMMUNOASSAY)	597	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels between 2 measured serum TSH concentrations.TSH stimulate ilure at any level of regulation of the hypothalami wroidism) of T4 and/or T3	es the proc	duction and secretion of the me	

 CLINICAL CONDITION
 T3
 T4
 TSH

 Primary Hypothyroidism:
 Reduced
 Reduced
 Increased (Significantly)

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.

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	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	
	RECO	VIMENDATIONS OF TSH LE	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
		VIT	AMINS	
	VI		YDROXY VITAMIN D3	
	ROXY VITAMIN D3): SERUM		ng/mL	DEFICIENCY: < 20.0
	IESCENCE IMMUNOASSAY)	9.1 ^L	ng/mL	INSUFFICIENCY: < 20.0 SUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
NTERPRETATION:				
DEFIC	CIENT:	< 20	n	g/mL
	ICIENT:	21 - 29		g/mL
	ED RANGE: CATION:	30 - 100 > 100		g/mLg/mL
issue and tightly bou 3. Vitamin D plays a p phosphate reabsorpti 4. Severe deficiency m DECREASED: 1. Lack of sunshine exi 2. Inadequate intake, 3. Depressed Hepatic 4. Secondary to advan 5. Osteoporosis and Si 5. Enzyme Inducing dr NCREASED: 1. Hypervitaminosis D evere hypercalcemia 2. AUTION : Replaceme hypervitaminosis D	and by a transport protein while rimary role in the maintenance ion, skeletal calcium deposition hay lead to failure to mineralize posure. malabsorption (celiac disease) Vitamin D 25- hydroxylase activities econdary Hyperparathroidism (rugs: anti-epileptic drugs like ph D is Rare, and is seen only after p and hyperphophatemia. Int therapy in deficient individual individuals as compare to whites,	in circulation. of calcium home, , calcium mobilizz newly formed os ity Mild to Moderate enytoin, phenoba prolonged exposu ls must be monite	ostatis. It promotes calciur ation, mainly regulated by teoid in bone, resulting in r e deficiency) irbital and carbamazepine, re to extremely high doses ored by periodic assessmer	port form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and parathyroid harmone (PTH). rickets in children and osteomalacia in adults. that increases Vitamin D metabolism. of Vitamin D. When it occurs, it can result in at of Vitamin D levels in order to prevent <i>iency due to excess of melanin pigment which</i>
nnereiere with vitanni		*** End Of R	eport ***	
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