



	Dr. Vinay Chop MD (Pathology & Mi Chairman & Consult	crobiology)		(Pathology)
NAME	: Mrs. RASHMI JAIN			
AGE/ GENDER	: 66 YRS/FEMALE		PATIENT ID	: 1623476
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409240018
REFERRED BY	:		REGISTRATION DATE	: 24/Sep/2024 10:05 AM
BARCODE NO.	: 01517597		COLLECTION DATE	: 24/Sep/2024 10:12AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 24/Sep/2024 10:33AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	STHYA WE	LLNESS PANEL: DT	
			DOD COUNT (CBC)	
RED BLOOD CELLS (R	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10 ^L	gm/dL	12.0 - 16.0
RED BLOOD CELL (RB		3.65	Millions/cr	mm 3.50 - 5.00
by HYDRO DYNAMIC FO	DCUSING, ELECTRICAL IMPEDENCE F (PC\)	31.1 ^L	%	37.0 - 50.0
by CALCULATED BY A	UTOMATED HEMATOLOGY ANALYZER			
MEAN CORPUSCULAR	? VOLUME (MCV) JTOMATED HEMATOLOGY ANALYZER	85.2	fL	80.0 - 100.0
MEAN CORPUSCULAR	R HAEMOGLOBIN (MCH)	27.3	pg	27.0 - 34.0
	TOMATED HEMATOLOGY ANALYZER	32.1	g/dL	32.0 - 36.0
	JTOMATED HEMATOLOGY ANALYZER	52.1		32.0 - 30.0
	ON WIDTH (RDW-CV) JTOMATED HEMATOLOGY ANALYZER	14.2	%	11.00 - 16.00
	ON WIDTH (RDW-SD)	45.2	fL	35.0 - 56.0
-	JTOMATED HEMATOLOGY ANALYZER	22.24	DATIO	BETA THAI ASSEMIA TRAIT: < 13.0
MENTZERS INDEX		23.34	RATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDE	(33.03	RATIO	BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED	(MDCC)			IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS		7000	· · · · ·	4000 11000
TOTAL LEUCOCYTE CO	JUNT (TLC) BY SF CUBE & MICROSCOPY	7990	/cmm	4000 - 11000
NUCLEATED RED BLO	. ,	NIL		0.00 - 20.00
by AUTOMATED 6 PAR NUCLEATED RED BLO	<i>T HEMATOLOGY ANALYZER</i> OD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AU	JTOMATED HEMATOLOGY ANALYZER			
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>			
NEUTROPHILS	BY SF CUBE & MICROSCOPY	49 ^L	%	50 - 70



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

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
LYMPHOCYTES		42 ^H	%	20 - 40	
by FLOW CYTOMETR EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	3	%	1 - 6	
	Y BY SF CUBE & MICROSCOPY	5	70	1-0	
MONOCYTES		6	%	2 - 12	
•	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1	
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY		0	70	0 - 1	
ABSOLUTE LEUKOCY	(TES (WBC) COUNT				
ABSOLUTE NEUTRO	PHIL COUNT	3915	/cmm	2000 - 7500	
-	Y BY SF CUBE & MICROSCOPY				
	CYTE COUNT Y by sf cube & microscopy	3356	/cmm	800 - 4900	
ABSOLUTE EOSINOP		240	/cmm	40 - 440	
by FLOW CYTOMETR	Y BY SF CUBE & MICROSCOPY				
		479	/cmm	80 - 880	
ABSOLUTE BASOPHI	Y BY SF CUBE & MICROSCOPY L COUNT	0	/cmm	0 - 110	
	Y BY SF CUBE & MICROSCOPY	Ŭ	/ driffi	0 110	
PLATELETS AND OTH	HER PLATELET PREDICTIVE MARKI	ERS.			
PLATELET COUNT (P		286000	/cmm	150000 - 450000	
by HYDRO DYNAMIC F PLATELETCRIT (PCT)	FOCUSING, ELECTRICAL IMPEDENCE	0.20	0/	0.10 0.24	
· · ·	FOCUSING, ELECTRICAL IMPEDENCE	0.29	%	0.10 - 0.36	
MEAN PLATELET VO	LUME (MPV)	10	fL	6.50 - 12.0	
	FOCUSING, ELECTRICAL IMPEDENCE	75000	,	20000 00000	
PLATELET LARGE CEL	LL COUNT (P-LCC) FOCUSING, ELECTRICAL IMPEDENCE	75000	/cmm	30000 - 90000	
PLATELET LARGE CEI		26.4	%	11.0 - 45.0	
by HYDRO DYNAMIC F	OCUSING, ELECTRICAL IMPEDENCE			-	
PLATELET DISTRIBU	· ,	15.7	%	15.0 - 17.0	
,	FOCUSING, ELECTRICAL IMPEDENCE				



NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com
 www.koshealthcare.com







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BARCODE NO.	:01517597	COL	LECTION DATE	: 24/Sep/2024 10:12AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 24/Sep/2024 10:55AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT			
Fest Name		Value	Unit	Biological Reference	e interval
	ERY	THROCYTE SEDIMEN	TATION RATE (ESI	R)	
	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOM	46 ^H ETRY	mm/1st h	or 0 - 20	
1. ESR is a non-specil immune disease, but 2. An ESR can be affe	does not tell the health practi cted by other conditions besid	tioner exactly where the	inflammation is in the	on associated with infection, can body or what is causing it. pically used in conjunction with o	
as C-reactive protein 3. This test may also systemic lupus eryth CONDITION WITH LO	be used to monitor disease ac ematosus	tivity and response to the	erapy in both of the a	bove diseases as well as some ot	hers, such as
(polycythaemia), sigi as sickle cells in sick	n with conditions that inhibit t nificantly high white blood cell le cell anaemia) also lower the	count (leucocytosis), an	n of red blood cells, su d some protein abno	uch as a high red blood cell count malities. Some changes in red ce	: ell shape (such
2. Generally, ESR doe	e protein (C-RP) are both mark es not change as rapidly as doe by as many other factors as is	s CRP, either at the start			

 3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.
 6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while environment of the procession of the pr aspirin, cortisone, and quinine may decrease it





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Test Name		Value	Unit	Biological Reference interval
	CLIN	ICAL CHEMISTRY/E	BIOCHEMISTRY	
		GLUCOSE FASTI	NG (F)	
GLUCOSE FASTING (F): PLASMA SE - PEROXIDASE (GOD-POD)	156.29 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
by GLUCOSE OXIDAS				





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CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 24/Sep/2024 11:35AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFII	LE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		116.87	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	112.21	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 INHIBITI		41.09	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		53.34	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		75.78	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: by CALCULATED, SPE		22.44	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU	M	345.95 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	2.84	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		1.3	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

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

KOS Central Lab:6349/1, Nicholson Road, Ambala Cantt -133 001, HaryanaKOS Molecular Lab:IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana0171-2643898, +91 99910 43898care@koshealthcare.comwww.koshealthcare.comwww.koshealthcare.com

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.73 ^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.

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTIC	ON TEST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry		0.66	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.18	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY		0.48	mg/dL	0.10 - 1.00
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	20.32	U/L	7.00 - 45.00
SGPT/ALT: SERUM	/RIDOXAL PHOSPHATE	20.54	U/L	0.00 - 49.00
AST/ALT RATIO: SER		0.99	RATIO	0.00 - 46.00
ALKALINE PHOSPHA		94.27	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTRO	_ TRANSFERASE (GGT): SERUM PHTOMETRY	15.48	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.33	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.52	gm/dL	3.50 - 5.50
GLOBULIN: SERUM	ECTROPHOTOMETRY	2.81	gm/dL	2.30 - 3.50
A : G RATIO: SERUN		1.25	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





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value L	Jnit Biolo	ogical Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS	> 1.3 (SI	ightly Increased)	

HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)
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).

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



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,			
Test Name		Value	Unit	Biological Reference interval
	KI	DNEY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		39.43	mg/dL	10.00 - 50.00
	MATE DEHYDROGENASE (GLDH)			
CREATININE: SERUN		0.84	mg/dL	0.40 - 1.20
by ENZYMATIC, SPEC		10 / 2	ma/dl	7.0.25.0
	DGEN (BUN): SERUM ECTROPHOTOMETRY	18.43	mg/dL	7.0 - 25.0
	DGEN (BUN)/CREATININE	21.94 ^H	RATIO	10.0 - 20.0
RATIO: SERUM				
		44.04	DATIO	
UREA/CREATININE I	RATIU: SERUIVI ECTROPHOTOMETRY	46.94	RATIO	
URIC ACID: SERUM		5.66	mg/dL	2.50 - 6.80
by URICASE - OXIDAS	SE PEROXIDASE			
CALCIUM: SERUM		9.21	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SEF	ECTROPHOTOMETRY	3.69	ma/dl	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	3.07	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM		138.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIN	/E ELECTRODE)			
POTASSIUM: SERUN		4.55	mmol/L	3.50 - 5.00
by ISE (ION SELECTIN	/E ELECTRODE)	102 72	mana al /l	00.0 110.0
CHLORIDE: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	103.73	mmol/L	90.0 - 110.0
	RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	76.6		
(eGFR): SERUM				
by CALCULATED				
INTERPRETATION:				

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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5 5 6 6 1 . 2 8 6 6 CENT				ENCLOSE IN HEALTING		
	MD	Vinay Chopra (Pathology & Microt rman & Consultant			am Chopra 1D (Pathology) ant Pathologist	
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CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBAL	.A CANTT			
est Name		1	/alue	Unit	Biological	Reference interval
DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 3. Severe liver disease 4. Other causes of de 5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome of 1. SIADH (syndrome of the state of the sta	osis. nd starvation. e. creased urea synthe jurea rather than cre monemias (urea is v	sis. eatinine diffuses ou irtually absent in bl	lood).			
3. Pregnancy. DECREASED RATIO (<1						
. Phenacimide thera	py (accelerates conv	ersion of creatine t	o creatinine).			
2. Rhabdomyolysis (r	eleases muscle crea	tinine).	-			
3. Muscular patients NAPPROPIATE RATIO		ailure.				
		uses false increase	in creatinine wi	h certain method	ologies,resulting in norma	Il ratio when dehydratio
should produce an in	creased BUN/creatir	nine ratio).				2
2. Cephalosporin ther ESTIMATED GLOMERI			ement).			
CKD STAGE		SCRIPTION	GFR (mL/mi	n/1.73m2)	ASSOCIATED FINDINGS]
G1		kidney function	>9		No proteinuria	1
G2	Kidney	/ damage with	>9		Presence of Protein,]
		al or high GFR			Ibumin or cast in urine	-
G3a		ecrease in GFR	60 -			4
G3b	ivioderate	e decrease in GFR	30-5	94		

G4

G5

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Severe decrease in GFR

Kidney failure

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

15-29

<15

 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microt Chairman & Consultant	piology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. RASHMI JAIN		
AGE/ GENDER	: 66 YRS/FEMALE	PATIENT ID	: 1623476
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409240018
REFERRED BY	:	REGISTRATION DATE	: 24/Sep/2024 10:05 AM
BARCODE NO.	: 01517597	COLLECTION DATE	: 24/Sep/2024 10:12AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 24/Sep/2024 12:15PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	V	/alue 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



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

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

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CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, Al	Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	IYROID FUN	NCTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASS	0.885 AY)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoass	7.16 (AY)	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		stimulates the p	roduction 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 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 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)	THYROX	INE (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





DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA

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Test Name	V	/alue Unit	Biological Reference interval

		value	Unit		Biological Reference Interv
0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
0.35 - 1.93	11 - 19 Years	4.87-13.20	11 – 19 Years	0.50 - 5.50	
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 PREC	SNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50		
2nd Trimester			0.20 - 3.00		
3rd Trimester			0.30 - 4.10		
	0.92 - 2.28 0.35 - 1.93 0.35 - 1.93 RECOM 1st Trimester 2nd Trimester	0.92 - 2.28 1 - 10 Years 0.35 - 1.93 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) RECOMMENDATIONS OF TSH LE 1st Trimester 2nd Trimester	0.74 - 2.40 6 - 12 Months 7.10 - 16.16 0.92 - 2.28 1 - 10 Years 6.00 - 13.80 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 RECOMMENDATIONS OF TSH LEVELS DURING PREC 1st Trimester 2nd Trimester	0.74 - 2.40 6 - 12 Months 7.10 - 16.16 6 - 12 Months 0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00	0.74 - 2.40 6 - 12 Months 7.10 - 16.16 6 - 12 Months 0.70 - 7.00 0.92 - 2.28 1 - 10 Years 6.00 - 13.80 1 - 10 Years 0.60 - 5.50 0.35 - 1.93 11 - 19 Years 4.87 - 13.20 11 - 19 Years 0.50 - 5.50 0.35 - 1.93 > 20 Years (Adults) 4.87 - 12.60 > 20 Years (Adults) 0.35 - 5.50 RECOMMENDATIONS OF TSH LEVELS DURING PREGNANCY (μIU/mL) 1st Trimester 0.10 - 2.50 2nd Trimester 0.20 - 3.00

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





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







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Test Name		Value	Unit	Biological Reference interval
			AMINS	
		VITAMIN D/25 H	YDROXY VITAMIN D3	
by CLIA (CHEMILUMI	DROXY VITAMIN D3): SERUN NESCENCE IMMUNOASSAY)	И 35.3	ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0
<u>NTERPRETATION:</u> DFF	ICIENT:	< 20	n	g/mL
	FFICIENT:			
10201	FFIGENT.	21 - 29	n	g/mL
PREFFER INTOX 1.Vitamin D compou	RED RANGE: KICATION: unds are derived from dietar	30 - 100 > 100 y ergocalciferol (from	n n plants, Vitamin D2), or chc	5
PREFFER INTOX 1.Vitamin D compou conversion of 7- dih 2.25-OHVitamin D tissue and tightly bc 3.Vitamin D plays a phosphate reabsorp 4.Severe deficiency DECREASED: 1.Lack of sunshine e 2.Inadeguate intake 3.Depressed Hepatio 4.Secondary to adva 5.Osteoporosis and 6.Enzyme Inducing c INCREASED: 1. Hypervitaminosis severe hypercalcem CAUTION: Replacem hypervitaminosis D	RED RANGE: KICATION: unds are derived from dietar: vdrocholecalciferol to Vitam represents the main body represents the main body reprimary role in the maintenant of the	30 - 100 > 100 y eraocalciferol (from in D3 in the skin upor sevoir and transport f while in circulation. ance of calcium home ition, calcium mobiliz alize newly formed os ase) activity sm (Mild to Moderate e phenytoin, phenoba fter prolonged exposu	n plants. Vitamin D2), or cho o Ultraviolet exposure. Form of Vitamin D and trans costatis. It promotes calciur ation, mainly regulated by teoid in bone, resulting in r e deficiency) arbital and carbamazepine, ure to extremely high doses ored by periodic assessmen	g/mL g/mL g/mL olecalciferol (from animals, Vitamin D3), or by sport form of Vitamin D, being stored in adipose n absorption, renal calcium absorption and

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2.50

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

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