



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultan	obiology)		D (Pathology)	
IAME :	Mr. ATUL MALIK				
GE/ GENDER :	48 YRS/MALE		PATIENT ID	: 1713457	
COLLECTED BY :	SURJESH		REG. NO./LAB NO.	:012501010010	
EFERRED BY :			REGISTRATION DATE	: 01/Jan/2025 09:17 AM	
BARCODE NO. :	01523284		COLLECTION DATE	: 01/Jan/2025 09:23AM	
	KOS DIAGNOSTIC LAB		REPORTING DATE	: 01/Jan/2025 09:33AM	
LIENT ADDRESS :	6349/1, NICHOLSON ROAD, AMBA	ALA CANTI			
Fest Name		Value	Unit	Biological Referen	nce interval
	SWAST	HYA WH	ELLNESS PANEL: G	т	
			OOD COUNT (CBC)		
RED BLOOD CELLS (1	RBCS) COUNT AND INDICES				
AEMOGLOBIN (HB)		16.7	gm/dL	12.0 - 17.0	
RED BLOOD CELL (RE	COUNT	7.13 ^H	Millions	s/cmm 3.50 - 5.00	
ACKED CELL VOLUM		54	%	40.0 - 54.0	
MEAN CORPUSCULAR		75.8 ^L	fL	80.0 - 100.0	
MEAN CORPUSCULAR	R HAEMOGLOBIN (MCH)	23.4 ^L	pg	27.0 - 34.0	
MEAN CORPUSCULAR	R HEMOGLOBIN CONC. (MCHC)	30.8 ^L	g/dL	32.0 - 36.0	
RED CELL DISTRIBUT	TON WIDTH (RDW-CV)	15.6	%	11.00 - 16.00	
RED CELL DISTRIBUT	TON WIDTH (RDW-SD)	44.6	fL	35.0 - 56.0	
MENTZERS INDEX		10.63	RATIO	BETA THALASSE 13.0 IRON DEFICIENC >13.0	
GREEN & KING INDEX	-	16.57	RATIO	BETA THALASSE 65.0 IRON DEFICIENC 65.0	
WHITE BLOOD CELL		0400		4000 11000	
OTAL LEUCOCYTE C by flow cytometry B	UUNT (TLC) Y SF CUBE & MICROSCOPY	6460	/cmm	4000 - 11000	
NUCLEATED RED BLC	OOD CELLS (nRBCS) hematology analyzer	NIL		0.00 - 20.00	
		NIL	%	< 10 %	

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





EXCELLENCE IN HEALTHCARE & DIAGNOSTICS

	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	robiology)	Dr. Yugam MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS : 6349/2	1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYT	E COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUL	BE & MICROSCOPY	51	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUL	BE & MICROSCOPY	27	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUL	BE & MICROSCOPY	12 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUL		10	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUL		0	%	0 - 1
ABSOLUTE LEUKOCYTES (
ABSOLUTE NEUTROPHIL CC by FLOW CYTOMETRY BY SF CUL	BE & MICROSCOPY	3295	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE CO by FLOW CYTOMETRY BY SF CUE	BE & MICROSCOPY	1744	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL CO by FLOW CYTOMETRY BY SF CU		775 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COU by FLOW CYTOMETRY BY SF CU		646	/cmm	80 - 880
ABSOLUTE BASOPHIL COUN by FLOW CYTOMETRY BY SF CUE	IT	0	/cmm	0 - 110
PLATELETS AND OTHER PL	LATELET PREDICTIVE N	ARKERS.		
PLATELET COUNT (PLT) by HYDRO DYNAMIC FOCUSING, I	ELECTRICAL IMPEDENCE	219000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, I	ELECTRICAL IMPEDENCE	0.23	%	0.10 - 0.36
MEAN PLATELET VOLUME (I by HYDRO DYNAMIC FOCUSING, I	MPV)	11	fL	6.50 - 12.0
PLATELET LARGE CELL COU by HYDRO DYNAMIC FOCUSING, I	JNT (P-LCC)	68000	/cmm	30000 - 90000
PLATELET LARGE CELL RAT by HYDRO DYNAMIC FOCUSING, I	TIO (P-LCR)	31.3	%	11.0 - 45.0
PLATELET DISTRIBUTION W by HYDRO DYNAMIC FOCUSING, I NOTE: TEST CONDUCTED ON	VIDTH (PDW) ELECTRICAL IMPEDENCE	16	%	15.0 - 17.0

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA C	CANTT	
Test Name	Valu	ue Unit	Biological Reference interval



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	J	REPORTING DATE	: 01/Jan/2025 01:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT		
Test Name		Value	Unit	Biological Reference interva
WHOLE BLOOD	EMOGLOBIN (HbA1c):	6.4	EMOGLOBIN (HBA1) %	C) 4.0 - 6.4
ESTIMATED AVERA	RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	136.98	mg/dL	60.00 - 140.00
	AS PER AMERICAN DI	ABETES ASSOCIA	TION (ADA):	
	REFERENCE GROUP	GLYCOSYLATED HEMOGLOGIB (HBAIC) in %		(HBAIC) in %
Non dia	abetic Adults >= 18 years	<5.7		
A	t Risk (Prediabetes)	5.7 - 6.4		
D	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
Thorseret	in goole for glycomia control		of Therapy:	< 7.0
inerapeut	ic goals for glycemic control	Actions	Suggested:	>8.0
			Age < 19 Years	7.5
		Goal o	of therapy:	<7.5

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients. 2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate.

4.High HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	DIMENTATION RATE (ESR) GATION BY CAPILLARY PHOTOMETRY	5	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 erythy CONDITION WITH LO A low ESR can be see (polycythaemia), sigr as sickle cells in sickl NOTE: 1. ESR and C - reactiv 2. Generally, ESR doe 3. CRP is not affected	does not tell the health practitione acted by other conditions besides in be used to monitor disease activity ematosus W ESR en with conditions that inhibit the n hificantly high white blood cell cour le cell anaemia) also lower the ESR re protein (C-RP) are both markers c as not change as rapidly as does CRI by as many other factors as is ESR.	er exactly where the flammation. For this and response to the ormal sedimentation (leucocytosis), ar chinflammation. P, either at the start making it a better m	inflammation is in th s reason, the ESR is ty erapy in both of the a n of red blood cells, s nd some protein abno of inflammation or a narker of inflammatio	ormalities. Šome changes in red cell shape (such is it resolves.
 Women tend to ha b. Drugs such as dext 	ed, it is typically a result of two typ we a higher ESR, and menstruation tran, methyldopa, oral contraceptive d quinine may decrease it	and pregnancy can c	ause temporary eleva	ations. /Iline, and vitamin A can increase ESR, while





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 01/Jan/2025 12:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN		FRY/BIOCHEMIST FASTING (F)	TRY
GLUCOSE FASTING by glucose oxidas	E (F): PLASMA E - PEROXIDASE (GOD-POD)	120.9 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCRDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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. 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 PROFI	II F · BASIC	
CHOLESTEROL TO	TAL · SERUM	158.99	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL O		130.99	ing/ uL	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
FRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM HATE OXIDASE (ENZYMATIC)	88.64	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERO by SELECTIVE INHIBIT	L (DIRECT): SERUM Ion	51.03	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO by CALCULATED, SPE		94.23	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 CHOLES' by CALCULATED, SPE		107.96	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159. BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTER(by CALCULATED, SPE		17.73	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEF	RUM	410.62	mg/dL	350.00 - 700.00
CHOLESTEROL/HE by CALCULATED, SPE	DL RATIO: SERUM	3.12	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S by CALCULATED, SPE		1.85	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	1.74 ^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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Test Name		Value	Unit	Biological Reference interval
BILIRUBIN TOTAL by DIAZOTIZATION, SI		FUNCTION 0.48	I TEST (COMPLETE) mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	Г (CONJUGATED): SERUM spectrophotometry	0.17	mg/dL	0.00 - 0.40
BILIRUBIN INDIRE	ECT (UNCONJUGATED): SERUM	0.31	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		23.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM		33.1	U/L	0.00 - 49.00
AST/ALT RATIO: S	ERUM ECTROPHOTOMETRY	0.71	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHEN PROPANOL	HATASE: SERUM IYL PHOSPHATASE BY AMINO METHYL	134.26 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTRO	L TRANSFERASE (GGT): SERUM	23.48	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.88	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.2	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	I ECTROPHOTOMETRY	2.68	gm/dL	2.30 - 3.50
A : G RATIO: SERU	M ECTROPHOTOMETRY	1.57	RATIO	1.00 - 2.00

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:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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INTERPRETATION





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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).

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 inter	
	KIDNI	EY FUNCTION T	EST (COMPLETE)		
UREA: SERUM		25.03	mg/dL	10.00 - 50.00	
CREATININE: SER	/ATE DEHYDROGENASE (GLDH) IIM	0.89	mg/dL	0.40 - 1.40	
by ENZYMATIC, SPEC	CTROPHOTOMETERY				
	ROGEN (BUN): SERUM	11.7	mg/dL	7.0 - 25.0	
BLOOD UREA NITH	ROGEN (BUN)/CREATININE	13.15	RATIO	10.0 - 20.0	
RATIO: SERUM	ECTROPHOTOMETRY				
UREA/CREATININ	E RATIO: SERUM	28.12	RATIO		
by CALCULATED, SPE URIC ACID: SERUM	ECTROPHOTOMETRY 1	4.2	mg/dL	3.60 - 7.70	
by URICASE - OXIDAS					
CALCIUM: SERUM by ARSENAZO III, SPE	ECTROPHOTOMETRY	10.88 ^H	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SI	ERUM	3.19	mg/dL	2.30 - 4.70	
by PHOSPHOMOLYBL ELECTROLYTES	DATE, SPECTROPHOTOMETRY				
SODIUM: SERUM		137.4	mmol/L	135.0 - 150.0	
by ISE (ION SELECTIV					
POTASSIUM: SERU by ISE (ION SELECTIV		3.99	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM	1	103.05	mmol/L	90.0 - 110.0	
by ISE (ION SELECTIV FSTIMATED CLON	/E ELECTRODE) MERULAR FILTERATION RATE				
	IERULAR FILTERATION RATE	105.7			
(eGFR): SERUM		105.7			
by CALCULATED INTERPRETATION:					
	veen pre- and post renal azotemia.				

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.

3. GI haemorrhage.



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	I	Dr. Vinay Chopr 1D (Pathology & Mic Chairman & Consulta	obiology)			athology)			
NAME	: Mr. ATUL M	ALIK							
AGE/ GENDER	: 48 YRS/MALI	2]	PATIENT ID		: 1713457			
COLLECTED BY	: SURJESH		1	REG. NO./LAB NO.		:012501010	010		
	. 501012511								
REFERRED BY	:			REGISTRATION D		:01/Jan/2025			
BARCODE NO.	:01523284			COLLECTION DAT		:01/Jan/2025			
CLIENT CODE.	: KOS DIAGNO	STIC LAB]	REPORTING DAT	E	:01/Jan/2025	12:50PM		
CLIENT ADDRESS	: 6349/1, NICI	IOLSON ROAD, AMB	ALA CANTT						
Test Name			Value	Un	it	Biolo	gical Ref	erence int	erval
6. Excess protein inta burns, surgery, cache 7. Urine reabsorption 8. Reduced muscle m 9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (<1 1. Acute tubular necr 2. Low protein diet ar 3. Savero livor diet ar	kia, high fever). (e.g. ureter colo ass (subnormal d tetracycline, glu D:1) WITH ELEVA (BUN rises disp superimposed o 0:1) WITH DECRI osis. d starvation.	stomy) creatinine production cocorticoids) TED CREATININE LEV roportionately more n renal disease.	n) ELS:				ndrome, hi	igh protein d	diet,
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NAME	: Mr. ATUL MALIK		
AGE/ GENDER	: 48 YRS/MALE	PATIENT ID	: 1713457
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501010010
REFERRED BY	:	REGISTRATION DATE	: 01/Jan/2025 09:17 AM
BARCODE NO.	: 01523284	COLLECTION DATE	: 01/Jan/2025 09:23AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 01/Jan/2025 12:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT	Т	
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
 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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BARCODE NO.	:01523284	COLLEC	TION DATE	:01/Jan/202509:23AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORT	ING DATE	:01/Jan/2025 11:01AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT			
Test Name		Value	Unit	Biological Reference inter	val
		ENDOCRINOL	DGY		
	THYR	DID FUNCTION T	EST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM iescent microparticle immunoassay)	1.235	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM iescent microparticle immunoassay)	7.4	µgm/dL	4.87 - 12.60	
	ATING HORMONE (TSH): SERUM IESCENT MICROPARTICLE IMMUNOASSAY)	1.371	µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai		nulates the production an	d secretion of the n	m. The variation is of the order of 50%.Hence time etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or	of th
CLINICAL CONDITION	Т3	T4		TSH	
Primary Hypothyroidis		Reduce		ncreased (Significantly)	
Cubaliniaal Llumathumai	Normal or Loui Norma	All	au Marmaal		

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:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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 (e.g.: phenytoin , salicylates).

3. Serum T4 levels 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 hypothyroidism , pregnancy , phenytoin therapy.

TRIIODOTH	YRONINE (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	
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	





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		T I •	

Test Name		Value Unit		t	Biological Reference interval	
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	MMENDATIONS 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, iodine 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 goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic 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

*** End Of Report ***





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