



	MD (Pathology & Micr Chairman & Consultan) (Pathology)
NAME	: Mr. PARAS VERMA			
AGE/ GENDER	: 38 YRS/MALE		PATIENT ID	: 1729878
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012501210011
REFERRED BY	:		REGISTRATION DATE	: 21/Jan/2025 09:22 AM
	:01524171		COLLECTION DATE	: 21/Jan/2025 09:41AM
	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 21/Jan/2025 09:59AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTI		
Fest Name		Value	Unit	Biological Reference interval
	SWASTI	HYA WF	LLNESS PANEL: G	т
			OOD COUNT (CBC)	
ED BLOOD CELLS ((RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		14.5	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RI	BC) COUNT	5.09 ^H	Millions	s/cmm 3.50 - 5.00
by HYDRO DYNAMIC FOO	CUSING, ELECTRICAL IMPEDENCE			
PACKED CELL VOLUN by CALCULATED BY AUT	ME (PUV) TOMATED HEMATOLOGY ANALYZER	43.3	%	40.0 - 54.0
IEAN CORPUSCULA	R VOLUME (MCV) tomated hematology analyzer	85.1	fL	80.0 - 100.0
AEAN CORPUSCULA	R HAEMOGLOBIN (MCH)	28.6	pg	27.0 - 34.0
	TOMATED HEMATOLOGY ANALYZER	33.6		22.0.26.0
	R HEMOGLOBIN CONC. (MCHC) TOMATED HEMATOLOGY ANALYZER	33.0	g/dL	32.0 - 36.0
	ΓΙΟΝ WIDTH (RDW-CV) τοματεd hematology analyzer	13.8	%	11.00 - 16.00
RED CELL DISTRIBUT	TION WIDTH (RDW-SD)	44.2	fL	35.0 - 56.0
by CALCULATED BY AUT	TOMATED HEMATOLOGY ANALYZER	16.72	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED		10.72	KATIO	13.0
				IRON DEFICIENCY ANEMIA:
GREEN & KING INDE	X	23.16	RATIO	>13.0 BETA THALASSEMIA TRAIT:<
by CALCULATED				65.0
				IRON DEFICIENCY ANEMIA: > 65.0
VHITE BLOOD CELL	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C		7110	/cmm	4000 - 11000
	BY SF CUBE & MICROSCOPY OOD CELLS (nRBCS)	NIL		0.00 - 20.00
	OOD CELLS (nRBCS) %			
		NIL	%	< 10 %





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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. PARAS VERMA AGE/ GENDER : 38 YRS/MALE **PATIENT ID** :1729878 **COLLECTED BY** : SURJESH :012501210011 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 21/Jan/2025 09:22 AM : **BARCODE NO.** :01524171 **COLLECTION DATE** : 21/Jan/2025 09:41AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** : 21/Jan/2025 09:59AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 52 % 50 - 70 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 38 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 5 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY **ABSOLUTE LEUKOCYTES (WBC) COUNT** ABSOLUTE NEUTROPHIL COUNT 3697 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2702 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 356 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 356 /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) 150000 - 450000 264000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELETCRIT (PCT) 0.31 % 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 12 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 30000 - 90000 PLATELET LARGE CELL COUNT (P-LCC) /cmm 103000^H by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % PLATELET LARGE CELL RATIO (P-LCR) 38.8 11.0 - 45.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 16.2% by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

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Test Name	Value	Unit	Biological Reference interval



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Test Name		Value	Unit	Biological Reference interva	
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.3 105.41	moglobin (HBA1) % mg/dL	4.0 - 6.4 60.00 - 140.00	
INTERPRETATION:					
	AS PER AMERICAN D		'ION (ADA): COSYLATED HEMOGLOGIB	(UDAIC) in %	
	abetic Adults >= 18 years	GLI	<5.7		
	t Risk (Prediabetes)	<5.7 5.7 – 6.4			
	iagnosing Diabetes		>= 6.5		
			Age > 19 Years		
		Goals of Therapy:		< 7.0	
Therapeutic goals for glycemic control					
Therapeut	ic goals for glycemic control	Actions S	Suggested:	>8.0	
Therapeut	ic goals for glycemic control		Suggested: Age < 19 Years therapy:	>8.0	

COMMENTS:

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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Cest Name		Value	Unit	Biological Reference interval
2. An ESR can be affe as C-reactive protein	ected by other conditions besides be used to monitor disease activ	inflammation. For t	his reason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as



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		hopra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI		RY/BIOCHEMIST ASTING (F)	'nY
GLUCOSE FASTING	; (F): PLASMA E - PEROXIDASE (GOD-POD)	87.46	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0

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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		236.1 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR =
TRIGLYCERIDES: S by GLYCEROL PHOSE	ERUM PHATE OXIDASE (ENZYMATIC)	175.22 ^H	mg/dL	240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
HDL CHOLESTERO	L (DIRECT): SERUM ion	36.89	mg/dL	VERY HIGH: > OR = 500.0 LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0
LDL CHOLESTERO by CALCULATED, SPE		164.17 ^H	mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0
NON HDL CHOLES' by calculated, spe	TEROL: SERUM ECTROPHOTOMETRY	199.21 ^H	mg/dL	VERY HIGH: > OR = 190.0 OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0
VLDL CHOLESTER	OL: SERUM	35.04	mg/dL	VERY HIGH: > OR = 220.0 0.00 - 45.00
TOTAL LIPIDS: SEF		647.42	mg/dL	350.00 - 700.00
CHOLESTEROL/HI	ECTROPHOTOMETRY DL RATIO: SERUM ECTROPHOTOMETRY	6.4 ^H	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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Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: S		4.45 ^H	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	4.75	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
BILIRUBIN DIRECT by DIAZO MODIFIED, S BILIRUBIN INDIRE by CALCULATED, SPE SGOT/AST: SERUM by IFCC, WITHOUT PY	PECTROPHOTOMETRY (CONJUGATED): SERUM SPECTROPHOTOMETRY CCT (UNCONJUGATED): SERUM ECTROPHOTOMETRY (RIDOXAL PHOSPHATE	0.36 0.12 0.24 27.8	mg/dL mg/dL mg/dL U/L U/L	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20 0.00 - 0.40 0.10 - 1.00 7.00 - 45.00 0.00 - 49.00
-	RIDOXAL PHOSPHATE	53.2 ^H		
AST/ALT RATIO: S by CALCULATED, SPE		0.52	RATIO	0.00 - 46.00
ALKALINE PHOSPI		81.66	U/L	40.0 - 130.0
GAMMA GLUTAMY by SZASZ, SPECTROF	L TRANSFERASE (GGT): SERUM	92.39 ^H	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRO		6.89	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL G		4.25	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	2.64	gm/dL	2.30 - 3.50
A : G RATIO: SERUI		1.61	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
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)



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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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	KIDNI	EY FUNCTION T	EST (COMPLETE)	
UREA: SERUM		28.25	mg/dL	10.00 - 50.00
-	NATE DEHYDROGENASE (GLDH)	1.04		0.40 1.40
CREATININE: SER		1.24	mg/dL	0.40 - 1.40
	ROGEN (BUN): SERUM	13.2	mg/dL	7.0 - 25.0
-	ectrophotometry ROGEN (BUN)/CREATININE	10.65	RATIO	10.0 - 20.0
RATIO: SERUM		10.00		10.0 20.0
by CALCULATED, SPE UREA/CREATININ	ECTROPHOTOMETRY	22.78	RATIO	
	ECTROPHOTOMETRY	22.10	KATIO	
URIC ACID: SERUM		6.5	mg/dL	3.60 - 7.70
by URICASE - OXIDAS CALCIUM: SERUM	SEPERUXIDASE	9.49	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			Ū.	
PHOSPHOROUS: SE by PHOSPHOMOLYBE	ERUM DATE, SPECTROPHOTOMETRY	3.83	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIV	/E ELECTRODE)	141.2	mmol/L	135.0 - 150.0
POTASSIUM: SERU	М	4.16	mmol/L	3.50 - 5.00
by ISE (ION SELECTIVE ELECTRODE) CHLORIDE: SERUM		105.9	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	/E ELECTRODE)			
	MERULAR FILTERATION RATE			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	76.3		
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.

3. GI haemorrhage.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





				MD (Pa	am Chopra MD (Pathology) tant Pathologist			
NAME	: Mr. PARAS V	ERMA						
AGE/ GENDER	: 38 YRS/MALE		PA	TIENT ID		: 1729878		
COLLECTED BY	: SURJESH		RE	EG. NO./LAB NO.		: 0125012100)11	
REFERRED BY	:		RF	EGISTRATION D	ATE	: 21/Jan/2025 0)9:22 AM	
BARCODE NO.	:01524171			DLLECTION DAT		: 21/Jan/2025 0		
CLIENT CODE.	: KOS DIAGNO	STICIAR		EPORTING DATI		: 21/Jan/2025 1		
CLIENT ADDRESS		IOLSON ROAD, AMBA				. 21/ Juli/ 2020 1	<i>1</i> ∞.001 m	
Test Name			Value	Un	it	Biolog	gical Refer	ence interva
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia	tetracycline, glu 0:1) WITH ELEVA (BUN rises dispr	TED CREATININE LEVEL oportionately more th) (e.g. obstructive	e uropathy	<i>ı</i>).		
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet an 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 ther ESTIMATED GLOMERI G1 G2 G3a	tetracycline, glue tetracycline, glue tetracycline, glue (0:1) WITH ELEVA a (BUN rises dispr superimposed of to:1) WITH DECRE osis. and starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates c eleases muscle c who develop rer sis (acetoacetate creased BUN/cre apy (interferes w JLAR FILTERATION Norn Kic no	thesis. ASED BUN : ASED BUN : ASED BUN : ASED BUN : ASED BUN : ASED CREATININE: onversion of creatine reatinine alfailure. Causes false increase atinine ratio). ASED CREATININE: onversion of creatine reatinine). al failure. Causes false increase atinine ratio). ASED CREATININE: DESCRIPTION nal kidney function Iney damage with rmal or high GFR d decrease in GFR	an creatinine) ut of extracellu plood). lue to tubular to creatinine). in creatinine ement). GFR (mL/n 6	ular fluid). secretion of urea with certain met <u>min/1.73m2) >90 >90 >90</u>	a. hodologie ASSOC		<u>S</u>	when dehydr
9. Certain drugs (e.g. INCREASED RATIO (>2 1. Postrenal azotemia 2. Prerenal azotemia DECREASED RATIO (< 1. Acute tubular necr 2. Low protein diet ar 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 ther ESTIMATED GLOMERI CKD STAGE G1 G2	tetracycline, glue tetracycline, glue tetracycline, glue (0:1) WITH ELEVA a (BUN rises dispr superimposed of to:1) WITH DECRE osis. and starvation. e. creased urea syn (urea rather than monemias (urea of inappropiate a to:1) WITH INCRE py (accelerates c eleases muscle c who develop rer sis (acetoacetate creased BUN/cre apy (interferes w <u>JLAR FILTERATION</u> Norr Norr Kic no	thesis. creatinine diffuses of is virtually absent in the thirdiuretic harmone) of ASED CREATININE: onversion of creatine reatinine). al failure. causes false increase atinine ratio). ith creatinine measur IRATE: DESCRIPTION nal kidney function Iney damage with rmal or high GFR	an creatinine) ut of extracellu plood). lue to tubular to creatinine). GFR (mL/i GFR (mL/i 60 3	ular fluid). secretion of urea with certain met <u>min/1.73m2)</u> >90 >90	a. hodologie ASSOC	es,resulting in no CIATED FINDINGS o proteinuria ence of Protein ,	<u>S</u>	when dehydr





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	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant Pa	ology) ME	m Chopra D (Pathology) It Pathologist
NAME	: Mr. PARAS VERMA		
AGE/ GENDER	: 38 YRS/MALE	PATIENT ID	: 1729878
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012501210011
REFERRED BY	:	REGISTRATION DATE	: 21/Jan/2025 09:22 AM
BARCODE NO.	: 01524171	COLLECTION DATE	: 21/Jan/2025 09:41AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 21/Jan/2025 12:06PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Ve	lue 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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AGE/ GENDER	: 38 YRS/MALE		PATIENT ID	: 1729878	
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Test Name		Value	Unit	Biological Refe	rence interval
		ENDOC	RINOLOGY		
	Т	HYROID FUNC	TION TEST: TOTAL		
TRIIODOTHYRONII	NE (T3): SERUM IESCENT MICROPARTICLE IMMUNC	1.024 DASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S by CMIA (CHEMILUMIN	SERUM iescent microparticle immund	6.13 DASSAY)	µgm/d	L 4.87 - 12.60	
	ATING HORMONE (TSH): SEI		µIU/m]	L 0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak lev measured serum TSH concentrations. lure at any level of regulation of the rroidism) of T4 and/or T3.	TSH stimulates the pro	oduction and secretion of the	metabolically active hormones, thyr	oxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH	
Primary Hypothyroidis	m: Reduced		Reduced	Increased (Significantly)	

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 (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.

TRIIODOTHYRONINE (T3)		THYROX	THYROXINE (T4)		LATING 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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Test Name	Value	Unit	Biological Reference interval

			value Unit		biological Reference line.	
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	
	RECOM	MENDATIONS 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, 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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