

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. PUNEET ANAND			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1609337
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012409110017
REFERRED BY	:		REGISTRATION DATE	: 11/Sep/2024 10:14 AM
BARCODE NO.	:01516737		COLLECTION DATE	: 11/Sep/2024 10:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Sep/2024 10:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: GT	
			DOD COUNT (CBC)	
RED BLOOD CELLS (RE	BCS) COUNT AND INDICES			
HAEMOGLOBIN (HB) by CALORIMETRIC		14.2	gm/dL	12.0 - 17.0
RED BLOOD CELL (RBC	C) COUNT	5.24 ^H	Millions/c	mm 3.50 - 5.00
PACKED CELL VOLUME		44.8	%	40.0 - 54.0
by CALCULATED BY AU MEAN CORPUSCULAR		85.4	fL	80.0 - 100.0
	TOMATED HEMATOLOGY ANALYZER	00.4	IL I	80.0 - 100.0
	HAEMOGLOBIN (MCH)	27	pg	27.0 - 34.0
	HEMOGLOBIN CONC. (MCHC)	31.6 ^L	g/dL	32.0 - 36.0
by CALCULATED BY AU RED CELL DISTRIBUTIO		13.7	%	11.00 - 16.00
	TOMATED HEMATOLOGY ANALYZER	13.7	70	11.00 - 10.00
RED CELL DISTRIBUTIO	ON WIDTH (RDW-SD) ITOMATED HEMATOLOGY ANALYZER	44	fL	35.0 - 56.0
MENTZERS INDEX	I GWATED TEMATOLOGT ANALIZER	16.3	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by CALCULATED		22.25	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	(WBCS)			inch benolever Anelvia. 2000
	DUNT (TLC) BY SF CUBE & MICROSCOPY	7540	/cmm	4000 - 11000
NUCLEATED RED BLO		NIL		0.00 - 20.00
	THEMATOLOGY ANALYZER	NUL	0/	. 10 %
NUCLEATED RED BLOO	JD CELLS (NRBCS) % ITOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %
DIFFERENTIAL LEUCO	<u>CYTE COUNT (DLC)</u>			
NEUTROPHILS		70 ^H	%	50 - 70

57 2.56

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







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Test Name		Value	Unit	Biological Reference interval
LYMPHOCYTES		20	%	20 - 40
•	RY BY SF CUBE & MICROSCOPY			
EOSINOPHILS		3	%	1 - 6
MONOCYTES	RY BY SF CUBE & MICROSCOPY	7	%	2 - 12
	RY BY SF CUBE & MICROSCOPY	/	70	2 - 12
BASOPHILS		0	%	0 - 1
-	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE LEUKOC	<u>YTES (WBC) COUNT</u>			
ABSOLUTE NEUTRO	PHIL COUNT	5278	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY			
		1508	/cmm	800 - 4900
ABSOLUTE EOSINOF	RY BY SF CUBE & MICROSCOPY	226	/cmm	40 - 440
	RY BY SF CUBE & MICROSCOPY	220	/ cmm	
ABSOLUTE MONOC		528	/cmm	80 - 880
	RY BY SF CUBE & MICROSCOPY			
ABSOLUTE BASOPH	IL COUNT RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
-	HER PLATELET PREDICTIVE MARKE	RS		
PLATELET COUNT (F		135000 ^L	/cmm	150000 - 450000
	FOCUSING, ELECTRICAL IMPEDENCE	135000-	/ cmm	130000 - 430000
PLATELETCRIT (PCT)		0.22	%	0.10 - 0.36
	FOCUSING, ELECTRICAL IMPEDENCE			(50, 10.0
MEAN PLATELET VC	FOCUSING, ELECTRICAL IMPEDENCE	16 ^H	fL	6.50 - 12.0
PLATELET LARGE CE	-	89000	/cmm	30000 - 90000
	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CE		66.3 ^H	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	16.5	%	15.0 - 17.0
	FOCUSING, ELECTRICAL IMPEDENCE	10.0	70	
NOTE: TEST CONDU	UCTED ON EDTA WHOLE BLOOD			





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		PORTING DATE	: 11/Sep/2024 12:05PM
CLIENT CODE.	: 6349/1, NICHOLSON ROAD, A		ORIENG DATE	. 11/ Sep/ 2024 12:031 M
CLIENT ADDRESS	. 0349/ I, MICHOLSON ROAD, I	AMDALA CANTI		
Test Name		Value	Unit	Biological Reference interval
GLYCOSYLATED HAEI WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG	RMANCE LIQUID CHROMATOGRAPHY)	6 125.5	% mg/dL	4.0 - 6.4 60.00 - 140.00
by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY)			
		DIABETES ASSOCIATIO		
	REFERENCE GROUP	GLYCO	SYLATED HEMOGLOGIB	(HBAIC) in %
	abetic Adults >= 18 years t Risk (Prediabetes)		<5.7 5.7 – 6.4	
	iagnosing Diabetes		>= 6.5	
			Age > 19 Years	
		Goals of T		< 7.0
Therapeut	ic goals for glycemic control	Actions Su	00	>8.0
			Age < 19 Years	
1		Goal of th	nerapy:	<7.5

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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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LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SED	IMENTATION RATE (ES	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	8	mm/1st h	
polycythaemia), sigr as sickle cells in sickl NOTE: 2. Generally, ESR doe 3. CRP is not affected 4. If the ESR is elevat 5. Women tend to ha 5. Drugs such as dext	W ESR en with conditions that inhibit the nificantly high white blood cell co le cell anaemia) also lower the E re protein (C-RP) are both marker es not change as rapidly as does (l by as many other factors as is ES ed, it is typically a result of two f ave a higher ESR, and menstruation	ount (leucocytos SR. cRP, either at the R, making it a be types of proteins on and pregnanc	is), and some protein abno n. estart of inflammation or a: e tter marker of inflammatior , globulins or fibrinogen. y can cause temporary eleva	1.
	there a		Ghopra	





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	, AMBALA CANTT		
		Value	Unit	Biological Reference interval
Test Name				
Test Name	CLIN	IICAL CHEMISTR	Y/BIOCHEMISTR	Y
Test Name	CLIN	IICAL CHEMISTR		Y

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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SO 9001 : 2008 CERTIFI	EDLAB		EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
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AGE/ GENDER : COLLECTED BY : REFERRED BY : BARCODE NO. : CLIENT CODE. :	Mr. PUNEET ANAND 52 YRS/MALE SURJESH 01516737 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, .	REGIS COLLE REPOI	NT ID 10./LAB NO. TRATION DATE ICTION DATE RTING DATE	: 1609337 : 012409110017 : 11/Sep/2024 10:14 AM : 11/Sep/2024 10:22AM : 11/Sep/2024 12:03PM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: S by CHOLESTEROL OXIDA		179.63	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERUI	VI ITE OXIDASE (ENZYMATIC)	235.69 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIF by SELECTIVE INHIBITION		35.31	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SER by CALCULATED, SPECT		97.18	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 CHOLESTERC		144.32 ^H	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: SI by CALCULATED, SPECT		47.14 ^H	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM by CALCULATED, SPECT		594.95	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RA	TIO: SERUM	5.09 ^H	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: SERUN by CALCULATED, SPECT		2.75	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
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KOS Diagnostic Lab (A Unit of KOS Healthcare)

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		6.67 ^H	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
	LIV	ER FUNCTION	N TEST (COMPLETE)	
BILIRUBIN TOTAL: S	ERUM PECTROPHOTOMETRY	0.45	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	0.11	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT by CALCULATED, SPE	(UNCONJUGATED): SERUM	0.34	mg/dL	0.10 - 1.00
SGOT/AST: SERUM		25.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	47.4	U/L	0.00 - 49.00
by IFCC, WITHOUT PY AST/ALT RATIO: SER	RIDOXAL PHOSPHATE	0.54	RATIO	0.00 - 46.00
by CALCULATED, SPE		0.54	KATIO	0.00 - 40.00
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	129.89	U/L	40.0 - 130.0
GAMMA GLUTAMYL by SZASZ, SPECTROF	. TRANSFERASE (GGT): SERUM	35.81	U/L	0.00 - 55.0
TOTAL PROTEINS: SE by BIURET, SPECTRO	RUM	6.49	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		4.24	gm/dL	3.50 - 5.50
GLOBULIN: SERUM		2.25 ^L	gm/dL	2.30 - 3.50
by calculated, spi A : G RATIO: SERUM		1.88	RATIO	1.00 - 2.00
NUCALCULATED ODD				

by CALCULATED, SPECTROPHOTOMETRY

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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Test Name		Value Unit	Biological Reference interval

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:

GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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Test Name		Value	Unit	Biological Reference interva
	K	IDNEY FUNCTION	TEST (COMPLETE)	
UREA: SERUM		16.48	mg/dL	10.00 - 50.00
-	NATE DEHYDROGENASE (GLDH)		Ũ	
CREATININE: SERUN		1.01	mg/dL	0.40 - 1.40
by ENZYMATIC, SPECTROPHOTOMETERY BLOOD UREA NITROGEN (BUN): SERUM		7.7	mg/dL	7.0 - 25.0
	ECTROPHOTOMETRY	1.1	my/uL	7.0 - 25.0
-	GEN (BUN)/CREATININE	7.62 ^L	RATIO	10.0 - 20.0
RATIO: SERUM				
		1/ 00	DATIO	
UREA/CREATININE I	RATIO: SERUM ECTROPHOTOMETRY	16.32	RATIO	
URIC ACID: SERUM		6.28	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	SE PEROXIDASE	0.20	1119/ 32	0.000
CALCIUM: SERUM		9.62	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE		2.02		2.20 4.70
PHOSPHOROUS: SEF	{UM DATE, SPECTROPHOTOMETRY	2.89	mg/dL	2.30 - 4.70
ELECTROLYTES	UNIC, SECONDERNY			
sodium: serum		146.3	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV	/E ELECTRODE)	1+0.5	HIHO/L	133.0 130.0
POTASSIUM: SERUM		4.52	mmol/L	3.50 - 5.00
by ISE (ION SELECTIV	/E ELECTRODE)			
CHLORIDE: SERUM		109.73	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	RULAR FILTERATION RATE			
		00 F		
ESTIMATED GLOME (eGFR): SERUM	RULAR FILTERATION RATE	89.5		
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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





5 5 6 6 1 . 2 0 0 0 C H I					
	MD (Path	y Chopra blogy & Microbiology) & Consultant Patholo		ugam Chopra MD (Pathology) sultant Pathologist	
NAME	: Mr. PUNEET ANAND				
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1609337	
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	:012409110017	
REFERRED BY	:		REGISTRATION D	ATE : 11/Sep/2024 10:1-	4 AM
BARCODE NO.	:01516737		COLLECTION DAT	E : 11/Sep/2024 10:22	2AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 11/Sep/2024 12:03	3PM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CAN	ГТ		
Test Name		Value	Uni	t Biological	Reference interval
5. Repeated dialysis (6. Inherited hyperam 7. SIADH (syndrome o 8. Pregnancy. DECREASED RATIO (<		ly absent in blood). c harmone) due to tu ATININE:	bular secretion of urea		
 Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in 		alse increase in creat atio).	inine with certain meth	nodologies,resulting in norma	al ratio when dehydration
ESTIMATED GLOMERU	JLAR FILTERATION RATE:				_
CKD STAGE	DESCRIP		(mL/min/1.73m2)	ASSOCIATED FINDINGS	4
G1	Normal kidne		>90	No proteinuria	4
G2	Kidney dam normal or h		>90	Presence of Protein , Albumin or cast in urine	
G3a	Mild decrea		60 -89		1
G3b	Moderate deci		30-59		1
01			15.00		1

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 & Micro Chairman & Consultan	obiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. PUNEET ANAND		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1609337
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012409110017
REFERRED BY	:	REGISTRATION DATE	: 11/Sep/2024 10:14 AM
BARCODE NO.	: 01516737	COLLECTION DATE	: 11/Sep/2024 10:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 11/Sep/2024 12:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	
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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MBBS, MD (PATHOLOGY)







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NAME	: Mr. PUNEET ANAND			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1609337
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	Т	
Test Name		Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	ТНҮ	ROID FUI	NCTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM vescent microparticle immunoassa	1.012 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM vescent microparticle immunoassa'	9.32 _{Y)}	µgm/dL	4.87 - 12.60
	ING HORMONE (TSH): SERUM	1.779 _{Y)}	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE			
day has influence on the trilodothyronine (T3).Fa		mulates the p	production and secretion of the m	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

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.

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 PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





		Dr. Vinay Cho MD (Pathology & M Chairman & Consu	1icrobiology)		u gam Chopra MD (Pathology ultant Pathologis	
NAME	: Mr. PUNI	EET ANAND				
AGE/ GENDER	: 52 YRS/M	ALE		PATIENT ID	: 16093	37
COLLECTED BY	: SURJESH			REG. NO./LAB NO.	:0124	09110017
REFERRED BY	:			REGISTRATION DA	TE : 11/Sep	p/2024 10:14 AM
BARCODE NO.	:01516737	7		COLLECTION DATE	:11/Sep	p/2024 10:22AM
CLIENT CODE.	: KOS DIAG	NOSTIC LAB		REPORTING DATE	:11/Sep	p/2024 12:03PM
CLIENT ADDRESS	S : 6349/1, N	NICHOLSON ROAD, AM	MBALA CANTT			
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	

RECOMMENDATIONS OF TSH LE	VELS DURING PREGNANCY (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

*** End Of Report **





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